

САМОУЧИТЕЛЬ

Visual FoxPro 8

Объекты Visual FoxPro

**Разработка приложений
с помощью Task Manager**

**Создание эффективной
справочной системы**

**Перенос данных
из FoxPro
на платформу
клиент-сервер**



Visual FoxPro 8

« »

2003

681.3.068+800.92 Visual Foxpro 8
32.973.26 018.1
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0 57 Visual Foxpro 8. — .: , 2003. —

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ISBN 5 94157 322 7

2003

Visual

FoxPro 8.0,

XML Web

Microsoft Visual Studio NET Microsoft SQL Server 2000.

Visual FoxPro.8.0

681.3.068+800.92 Visual Foxpro 8
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Visual FoxPro

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Visual FoxPro

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Visual FoxPro

Visual FoxPro 8.0.

Visual FoxPro.

Замечание

Совет

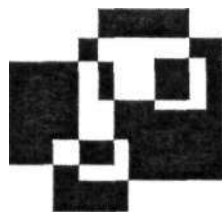
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Предупреждение

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Visual FoxPro

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1	11	537.56.89	11.05.03	345	3	10.25
2	11	530.11.12	11.05.03	224	4	6.90
3	11	751.11.12	11.05.03	812	3	7.50
4	11	132.34.67	12.05.03	226	5	9.50
5	12	455.67.78	12.05.03	224	5	5.60
6	11	490.34.66	12.05.03	835	4	4.70
7	11	234.45.45	12.05.03	224	6	4.90
8	11	123.12.34	12.05.03	347	8	12.80
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10	11	531.12.13	12.05.03	890	23	89.50

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Замечание

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Microsoft Visual FoxPro

File Edit View Tools Program Table Window Help

phone

Client

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8	11	11	12.05.03	8	347	12.80	
14	11	11	19.05.03	5	412	19.70	

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Microsoft Visual FoxPro

File Edit View Format Tools Program Report Window Help

phone

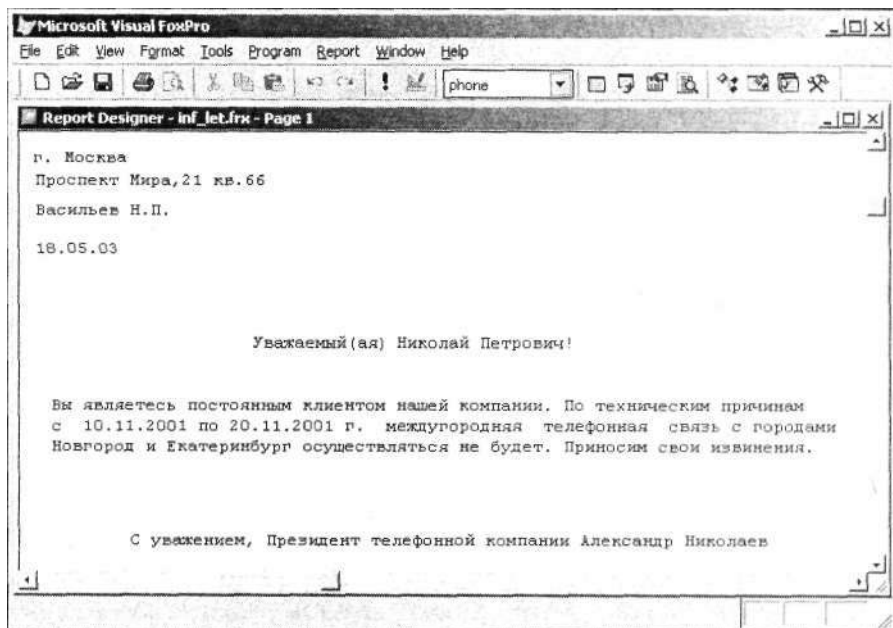
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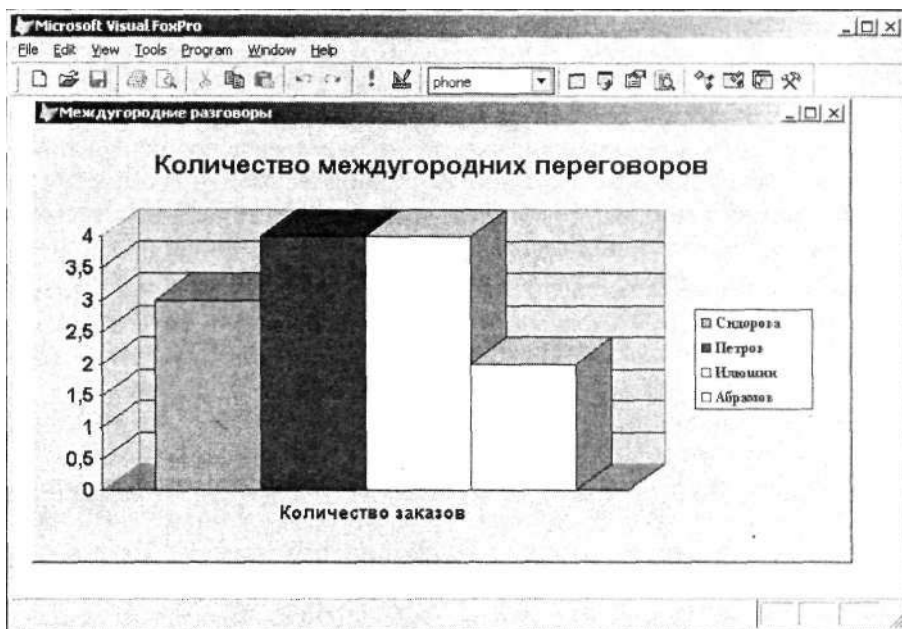
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537-00-79	Соловьева	Марина	Николаевна	ул. Бутырина, 15

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Visual FoxPro 8.0

Visual FoxPro,

Visual FoxPro

Visual FoxPro

Visual FoxPro

DBF.

Memo General

Memo
General

Windows.

Visual FoxPro

Visual FoxPro
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Structured Query
Language (SQL).
Visual FoxPro
Visual FoxPro

Visual FoxPro,

Visual

FoxPro

. 1.1.

1.1.

Visual FoxPro

PRJ, FPC, CAT, PJX, PJT

DBC

Visual FoxPro

DBF

CDX

Memo

General

FRT

SCX

QPR

FRX, FRM

LBX, LBL

MX

VCX

PRG, FXP, MPR, QPR

BMP, JPG, GIF, ICO, DIB, CUR, ANI

WAV

Visual FoxPro 8.0

Visual FoxPro

Visual FoxPro 8.0

Studio.NET Microsoft SQL Server 2000.

XML Web
Microsoft Visual
Windows.

Visual FoxPro 8.0 **Task Pane Manager** ().

Task Pane Manager ()

Microsoft Visual FoxPro

Toolbox (),

Toolbox ()

Tools ()

Visual FoxPro

(). **Caption**
(AutoInc). **Integer**

Visual FoxPro cursorAdapter,

cursorAdapter ()

- ;
- ODBC;
- ActiveX Data Object (ADO);
- XML.

Visual FoxPro

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Visual FoxPro 8.0

Reports () **Options** () ,
Options () **Tools** () .

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Visual FoxPro

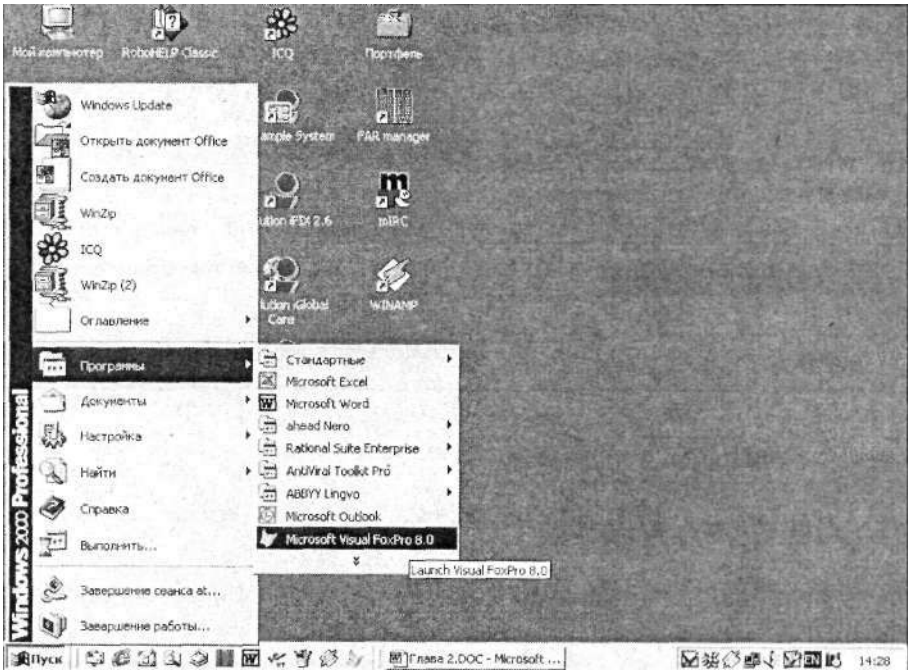
Visual FoxPro 8.0.

Windows.

Visual FoxPro

Windows

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Microsoft Visual FoxPro 8.0

Windows

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Windows

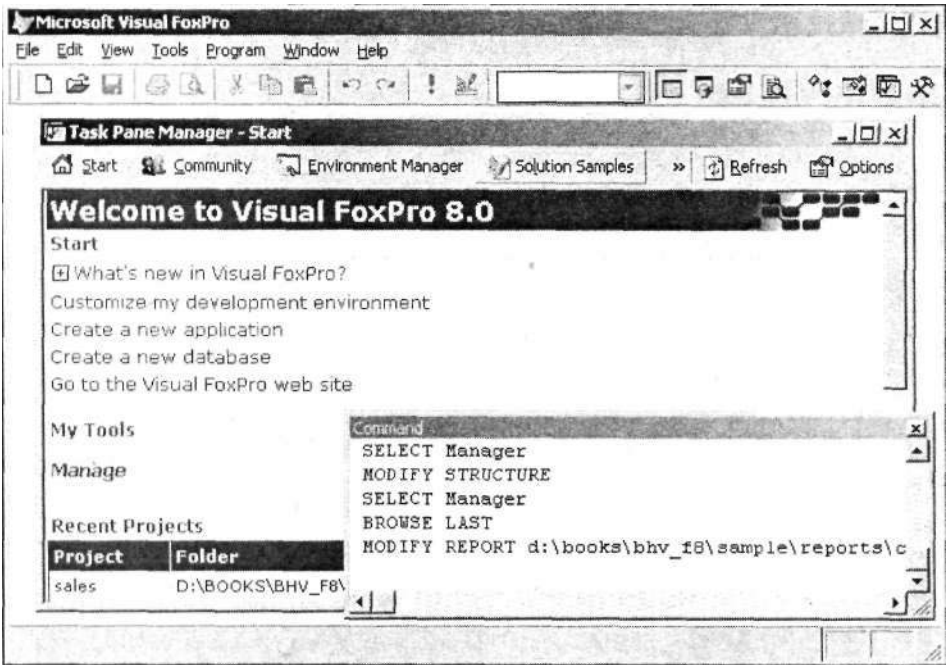
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Microsoft Visual FoxPro 8.0 (. 2.1).
Visual FoxPro 8.0 (. 2.2).
Visual FoxPro 8.0

Windows

Windows (. 2.1),

Visual FoxPro.



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Visual FoxPro 8.0

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Command ().

Task Pane Manager (

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Visual FoxPro.

Visual FoxPro

Visual FoxPro

Browse ()

Visual FoxPro 8.0
Manager ().

Task Pane

Visual FoxPro

Visual FoxPro

"Microsoft Visual FoxPro"

. 2.1

2.1.

Visual FoxPro

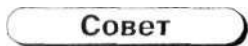
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Visual FoxPro

FoxPro
Windows

Visual FoxPro

Visual FoxPro



Visual FoxPro

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Microsoft Visual FoxPro

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Visual FoxPro

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MODIFY WINDOW SCREEN TITLE "

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2.2.

FoxPro
Windows

Visual FoxPro
Visual FoxPro,

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Visual FoxPro

Visual FoxPro

(. 2.3),
















. 2.3.









Visual FoxPro

. 2.3.

2.3.

	New ()
	Open ()
	Save ()
	Print One Copy ()
	Print Preview ()
	Cut ()
	()
	Paste ()
	Undo ()
	Redo ()
	Run ()
	Modify Form ()
	Databases ()

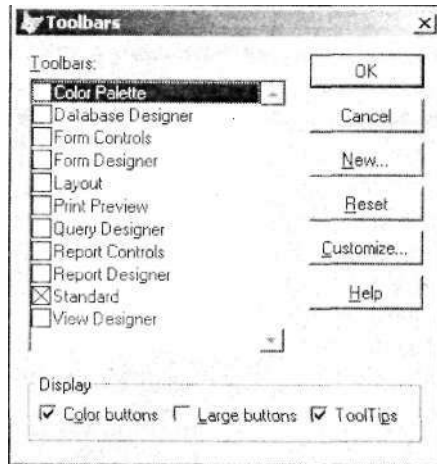
SCX

	Command Window ()	
	Data Session Window ()	Data Session
	Properties Window ()	Properties,
	Document View Window (-)	Document View, -
	Class Browser (-)	Class Browser, -
	Object Browser (-)	Object Browser, -
	Task Pane ()	Task Pane Manager (-)
	Toolbox (-)	Toolbox, -

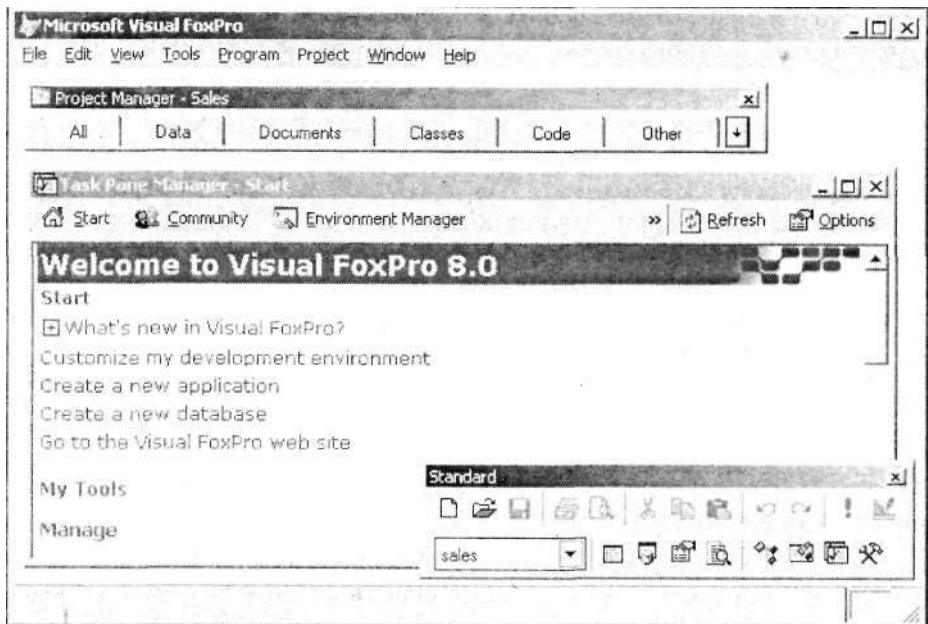
Замечание

Visual FoxPro

1. **View** () **Toolbars** ().
Toolbars (. 2.4),
Visual FoxPro.
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- Toolbars,**
- . 2.4.



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Toolbars

. 2.5.

2.4.

Toolbars

Color buttons ()

Large buttons ()

ToolTips ()

Visual FoxPro

Visual FoxPro,

(. 2.5).

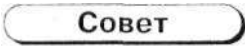
Visual FoxPro

Visual FoxPro

Visual FoxPro

File (), Edit (), View (), **Tools** (), **Program** (), Window () **Help** ().

Table (),
Form ().



Visual FoxPro

Windows

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<Alt>

" " <Enter>.

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 Visual FoxPro.

 <Esc>.

File

File () ,

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Save As HTML (HTML)

 ,

 HTML (HyperText Markup Language).

Revert (),

 .

 .

Exit (-

) QUIT -

 Visual FoxPro.

Edit

Edit () Windows. Visual Fox-

Pro , -

Paste Special (), **Insert Object** (-
), **Object** () **Links** () -
 General OLE . -

Go to Line (), **Windows** -
 Visual FoxPro -

List Members () Visual FoxPro -
 () -

Quick Info () -

Properties (), -
Edit Properties (), -

View

Toolbars () -
 Visual FoxPro.

View ()

Form Controls () **Color Palette** (), **Layout** (-
)

Browse () **Edit** (-
) -

Format

Format () -

Tools

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Macros (),

Debugger ()
Visual FoxPro Debugger,
 , , -
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Component Gallery ()
Catalogs — **Component Gallery** (—)
 Visual FoxPro. **Coverage Profiler** (-
)

Object Browser () , , -

IntelliSense Manager (IntelliSense) -

Task List () , , -

Microsoft Outlook.

Document View () , , #DEFINE

Task Pane () **Toolbox** () ,
Task Pane Manager (-
) **ToolBox** () **ToolBox** () -

Tools () — **Options** ().
 Visual FoxPro.

Program

Program ()

Window

Window ()

Command Window ()

Window

Visual FoxPro.

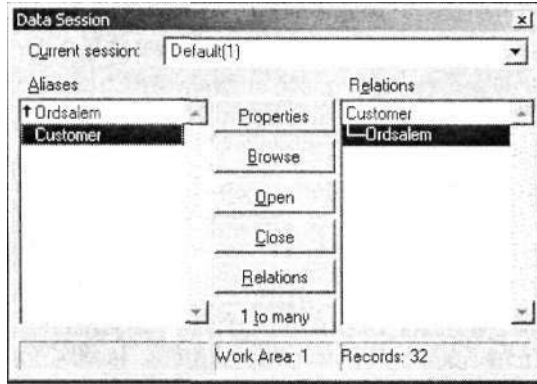
Properties Window ()

Properties (),

Data Session (),

(. 2.6),

Data Session ().



. 2.6. Data Session

Data Session ()

Properties ()

Open ().

Browse ()

Close ()

Data Session ()

Relations ()

Help

Help () — 2.5 -

2.5. Help

Microsoft Visual FoxPro Help (Visual FoxPro 8.0 Visual FoxPro).

MSDN Search (MSDN) MSDN¹

Technical Support (- Microsoft) ,

Visual FoxPro on the Web (Visual FoxPro Web) Microsoft Visual FoxPro.

About Microsoft Visual FoxPro (0 Microsoft Visual FoxPro) **About Microsoft Visual FoxPro,** -

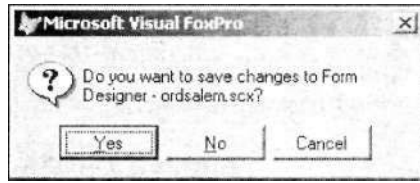
Visual FoxPro

Visual FoxPro,

- **File** () **Exit** ();
- Visual FoxPro;
- Visual FoxPro ;
- QUIT.

, Visual FoxPro - . 2.7.

¹ Microsoft Developer Network, Microsoft, -



. 2.7. Visual FoxPro ,

(. 2.6).

2.6.

Visual FoxPro ,

Yes ()	Visual FoxPro;	Save As
()	, Visual FoxPro	
No ()	Visual FoxPro	
Cancel ()	Visual FoxPro	Visual

Visual FoxPro 8.0

Task Pane Manager (

) (. 2.8)

- **Tools ()** **Task Pane ()**;
- **Task Pane ()**

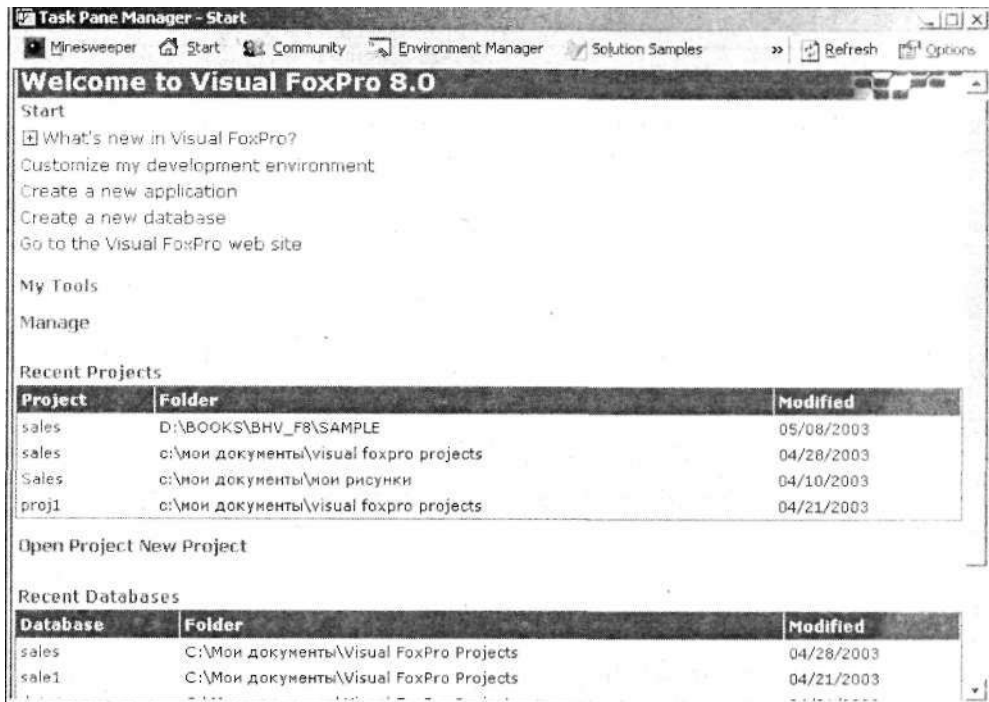
Visual FoxPro

Task Pane Options (-

Open the Task Pane Manager when

Visual

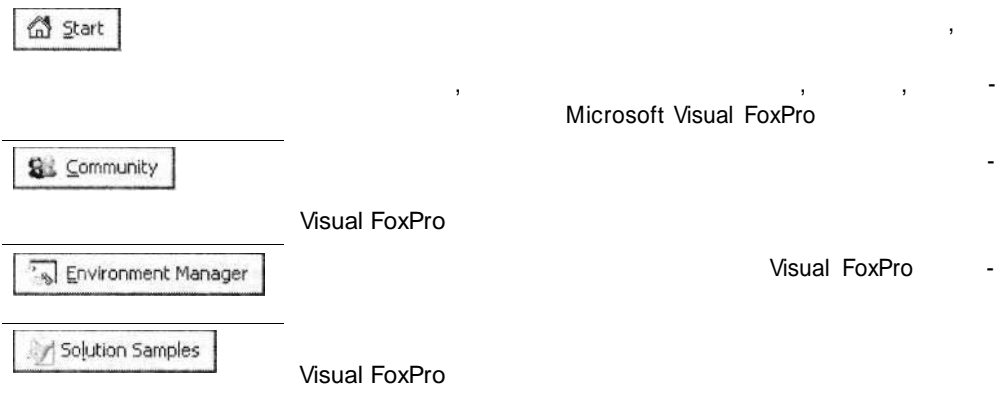
Visual FoxPro starts (
FoxPro).

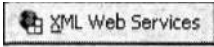


. 2.8. Task Pane Manager

(. 2.7).

2.7. Task Pane Manager



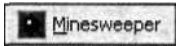


XML Web

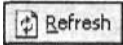
XML Web



Microsoft Visual FoxPro

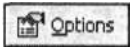


Minesweeper ()



Manager ()

Task Pane



Task Pane Options ()

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,

(. 2.8),
Start (),

(. 2.8).

2.8.

Start

What's new in Visual FoxPro? (Visual FoxPro?)
FoxPro 8.0

Visual

Customize my development environment ()

Visual FoxPro

Create a new application ()

Create a new database ()

Go to the Visual FoxPro web site (Visual FoxPro)

Microsoft Visual FoxPro

Manage ()

My Tools ()

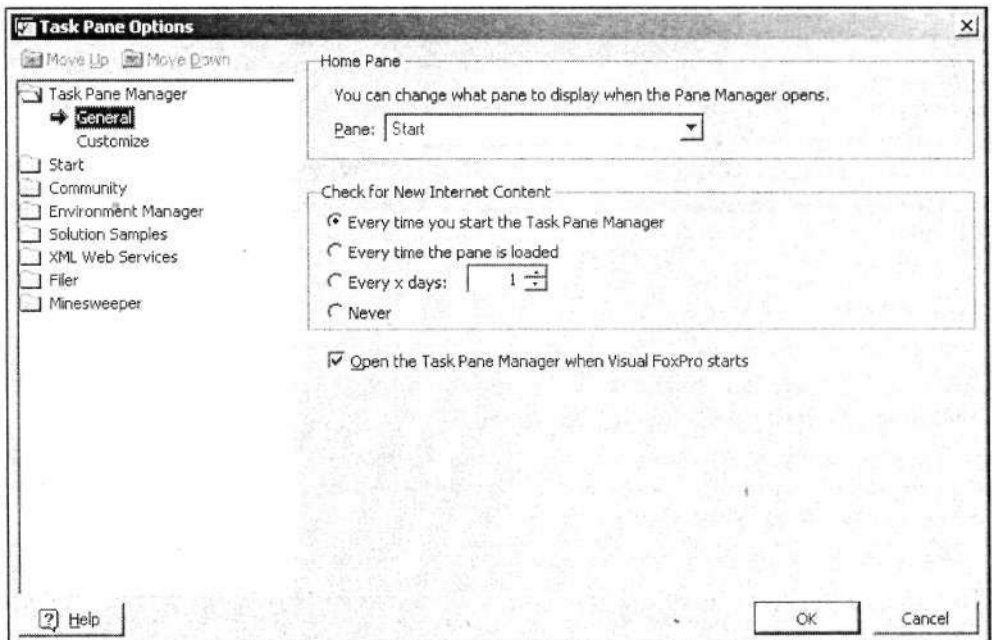
Open Project ()

Open ()

New Project ()	Create ()	-
Open Database ()	Open ()	-
New Database ()	Create ()	-
Task Pane Manager startup options ()	Task Pane Options ()	-

Task Pane Options () (. 2.9),

- Task Pane Options () Task Pane Manager startup options ()
- Options ()



Task **Pane** Options ()

Task Pane Manager (-

Pane Manager ().

eral () **Customize** (),

() (. . 2.9)

),

(. 2.9).

the Task Pane Manager when Visual FoxPro starts (

Visual FoxPro)

Visual FoxPro.

**Task
Gen-
General**

Open

2.9.

**Every time you start the Task Pane
Manager** ()

Every time the pain is loaded (-)

Every x days ()

Never (He)

Task Pane Manager ()

Замечание

Task Pane Manager (-
Refresh (), -

1. **Task Pane Manager** ()
Options ()

2. **Task Pane Options** ()
Task Pane Manager (), -
Customize ().

- 3. :
- **Install Pane** () — ;
- **Customize Pane** () —

Visual FoxPro

Visual FoxPro,

Visual FoxPro,

Web

Help ().

Visual FoxPro

Help ()

Microsoft Visual FoxPro Help

Visual FoxPro);

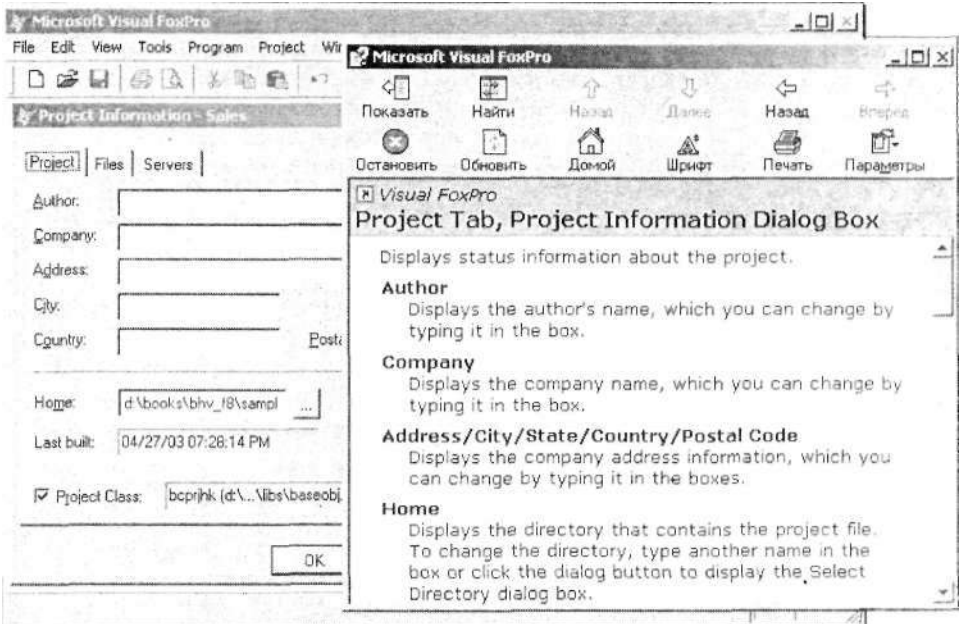
Task Pane Manager ()

What's new in Visual FoxPro? (

Visual FoxPro?);

<F1>

Visual FoxPro.



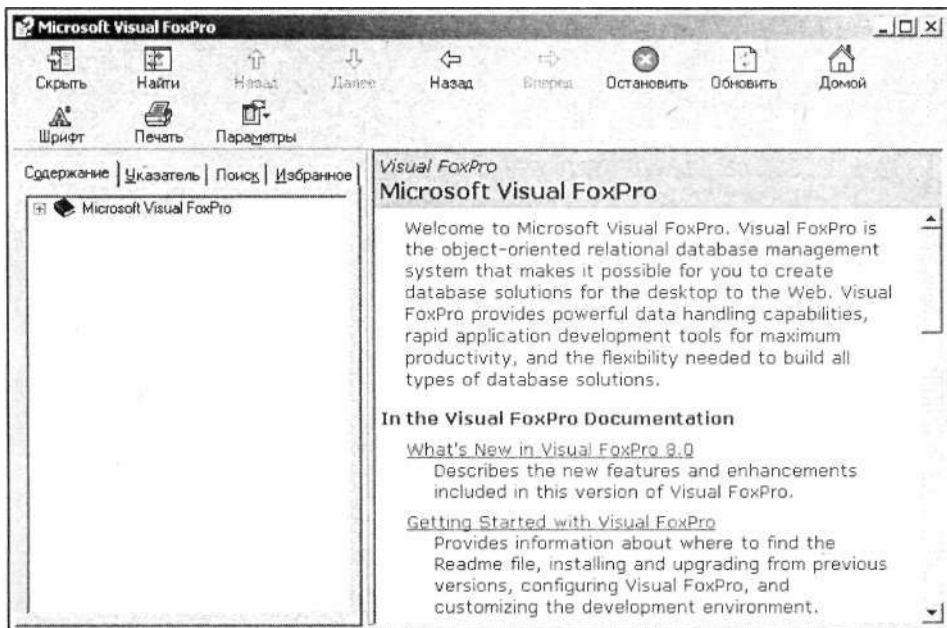
• **Help** (). **Help**
 () , Visual FoxPro
 (. 2.10).

. 2.11 Visual FoxPro, -
Help () **Microsoft Visual Fox-**
Pro Help (Visual FoxPro).

1.

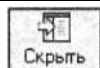
2.

3.



. 2.10.

2.10.



Microsoft Visual FoxPro 8.0

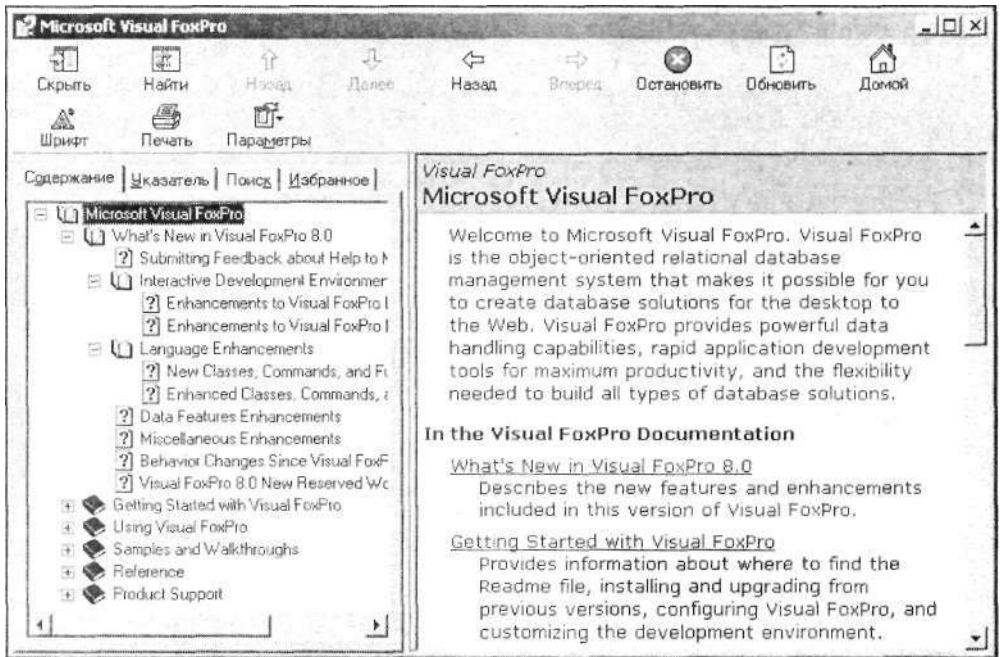
(. 2.11.).

2.11.

(. . 2.11).



(. 2.12).

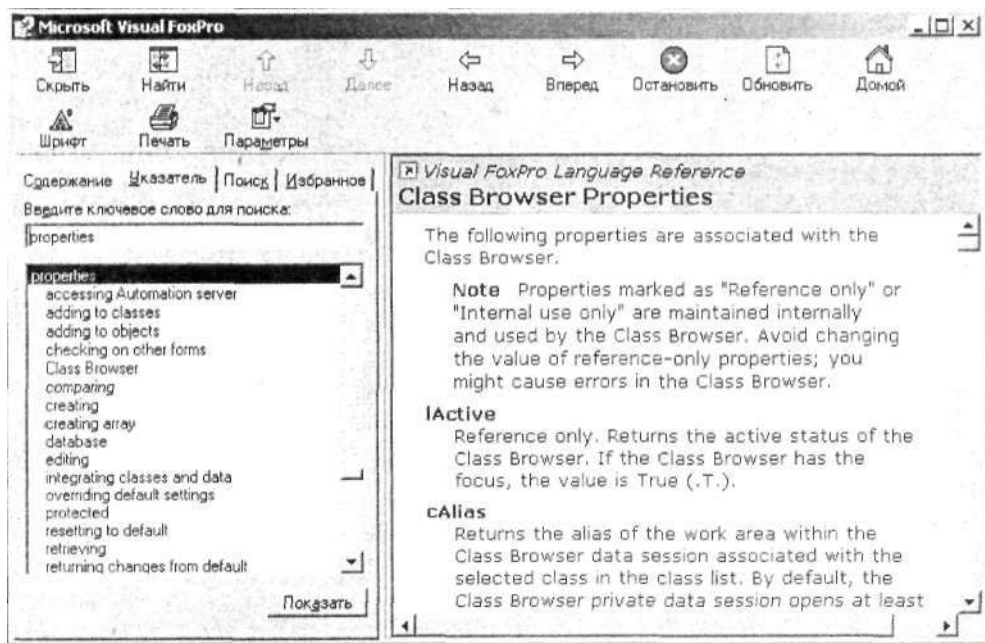


. 2.12.

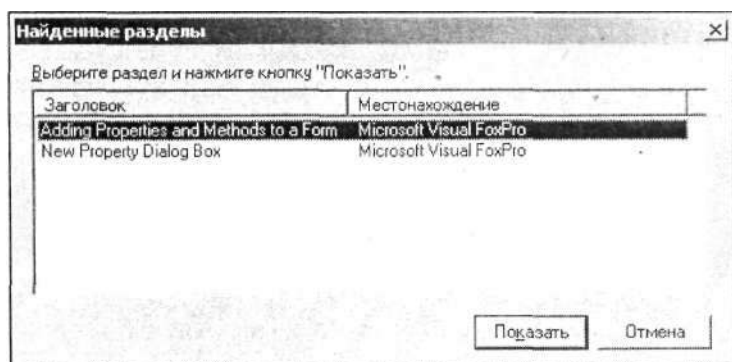
(. 2.13)

properties (. 2.13).

(. 2.14)



. 2.13.



. 2.14.

"?" () "!" (-
). , ,

. 2.12.

2.12.

AND properties AND form ,

OR properties & form
properties OR form , -

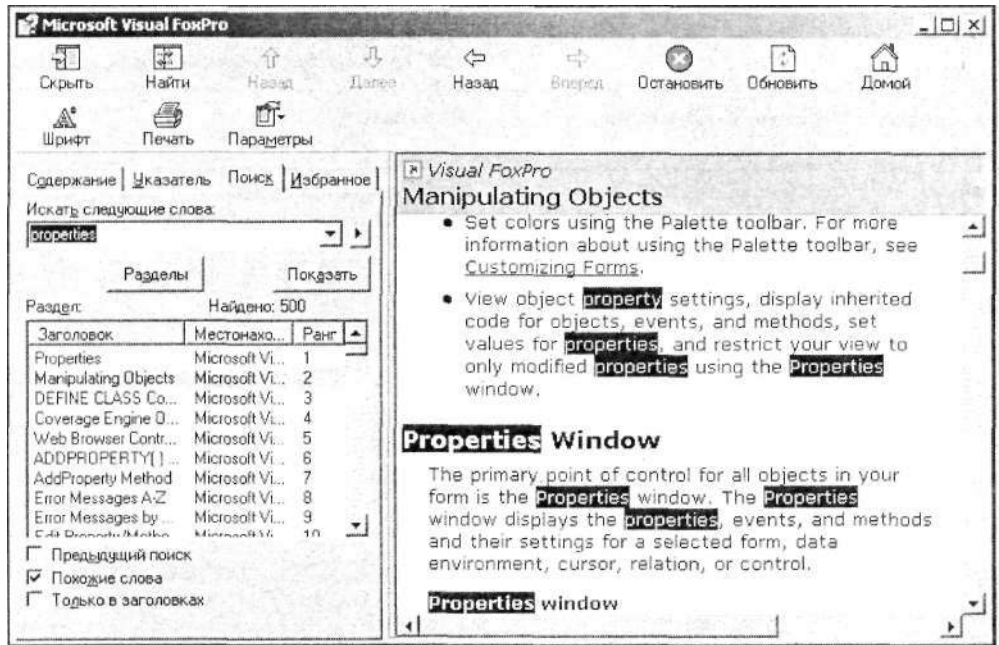
NEAR properties | form
properties NEAR form , -

NOT properties NOT form ,

properties ! form NOT

500

(. 2.15).



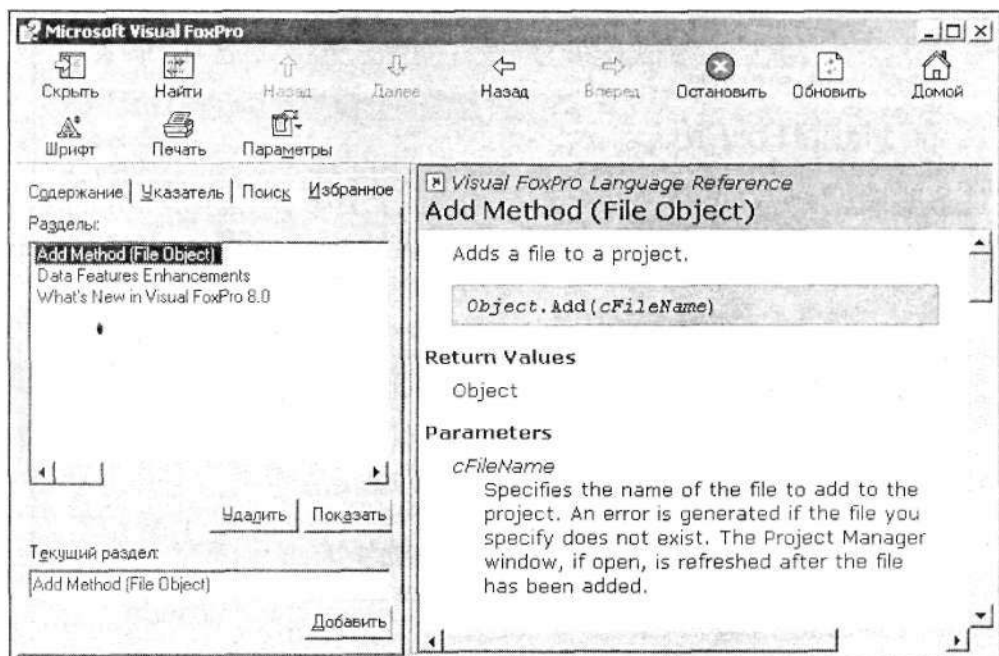
, 2.15.

(. 2.13).

2.13.

(. 2.16)

- 1.
- 2.
- 3.
- 4.



Visual FoxPro

Visual FoxPro

Web

Visual FoxPro.

Microsoft on the Web (Visual FoxPro Web)

Help.

Замечание

Web

2.17

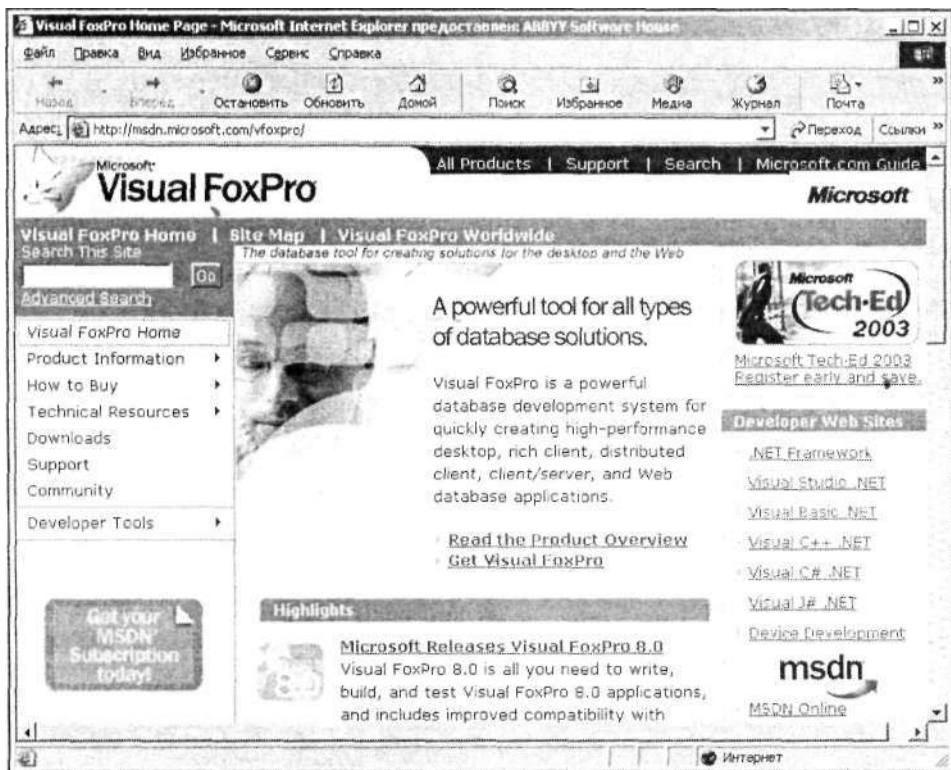
Visual FoxPro,

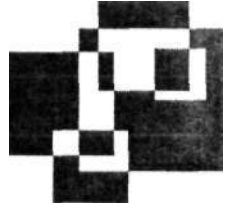
Microsoft.

Web

Visual FoxPro.

Web





Visual FoxPro

Visual FoxPro,

PJX. Memo

Memo

PJT.

Application Wizard ()

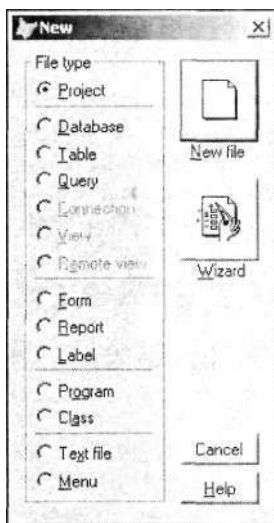
New ()

File ().

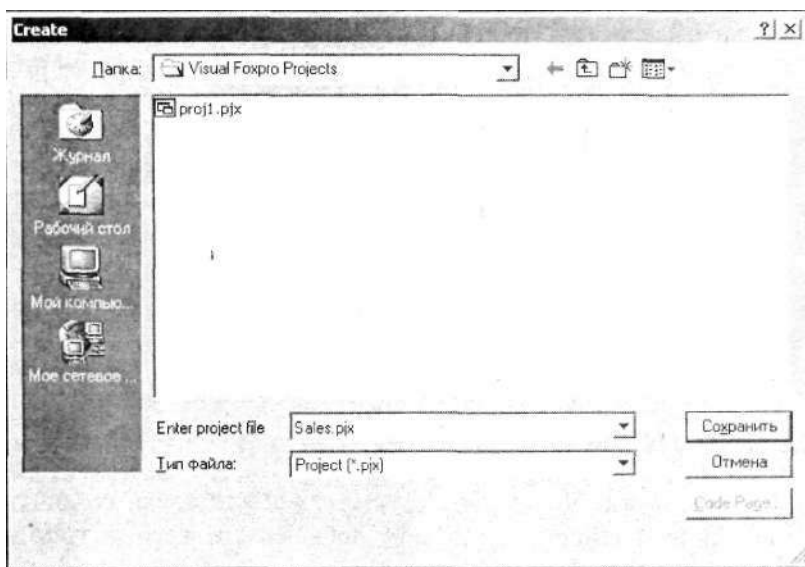
New ()

Visual FoxPro (. 3.1).

Project ().



. 3.1. New,



. 3.2. Create

:

1. New file ().
2. Enter project file ()
Create () , ,

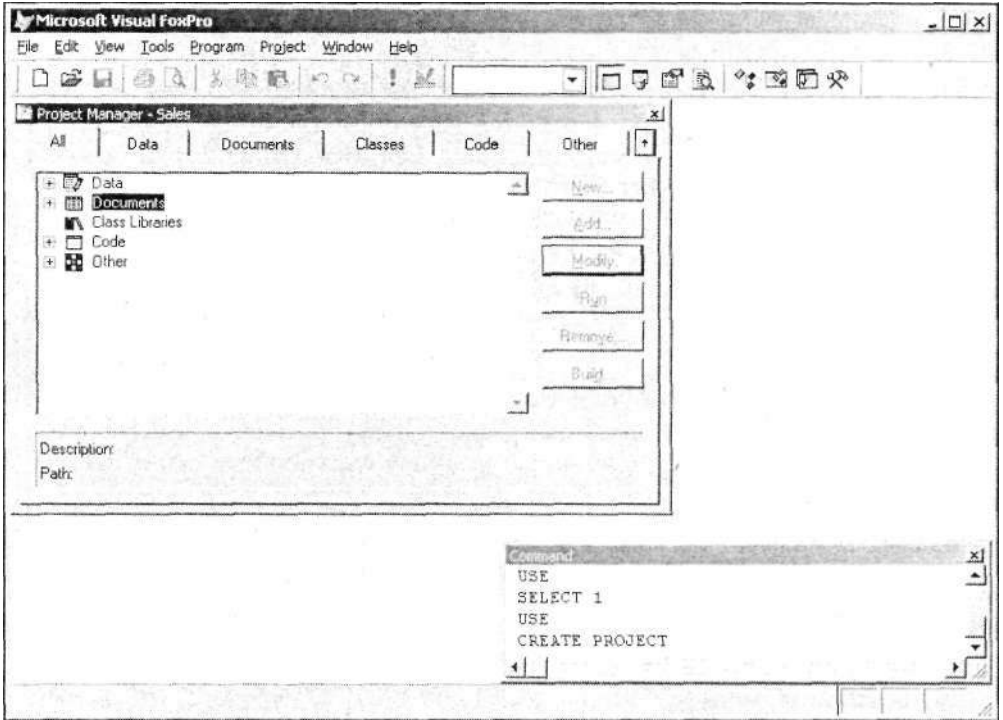
Project (),

(. 3.2).

3. FoxPro . Visual

Project Manager ()

(. 3.3).



. 3.3. Project Manager

(. 3.1).

3.1. Project Manager

All ()

Data ()

3.1 ()

Documents () ,

Classes ()

Code ()

Other () , , -

Visual FoxPro

: Data

(), Documents (), Class Libraries (), Code () Other ().

Замечание

Documents () :

- Forms — ;
- Reports — ;
- Labels — .

Class Libraries (. 3.3),

Data (), . 3.4

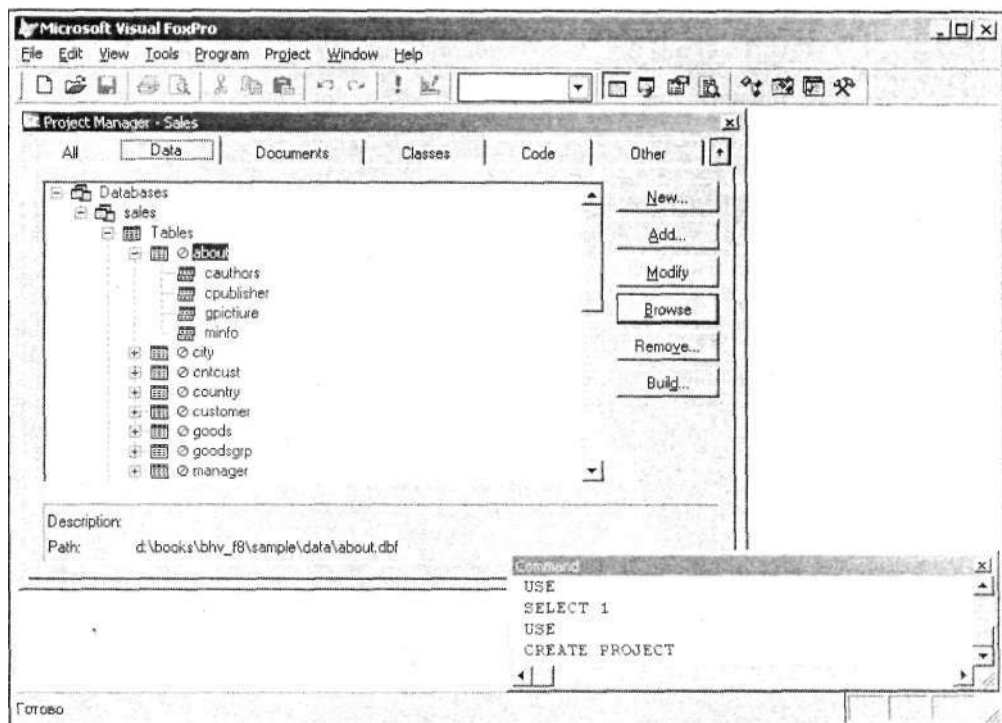
(. 3.5).

(. 3.6).

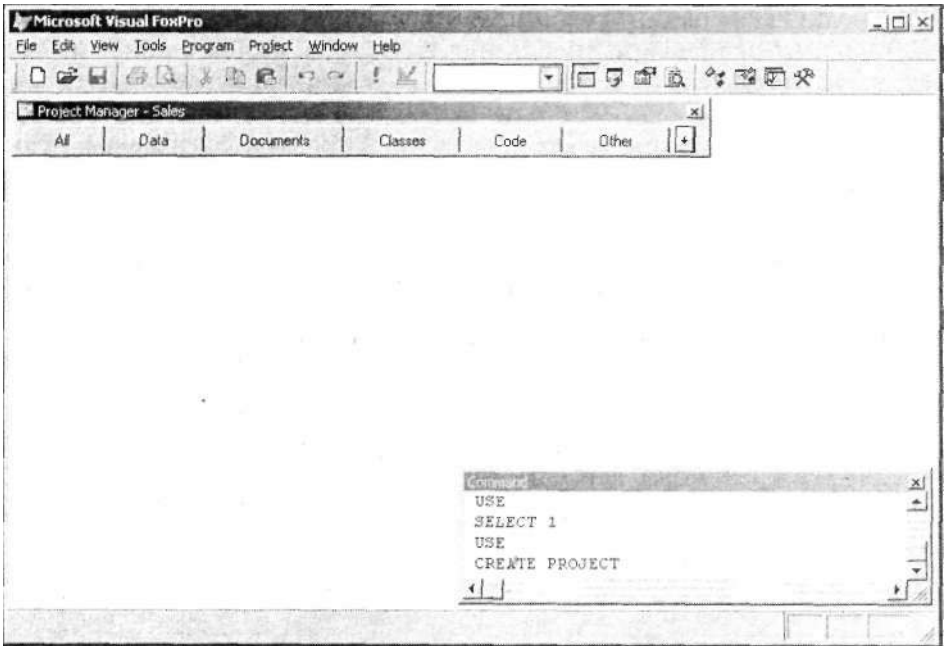
Visual FoxPro

Visual FoxPro (. 3.7).

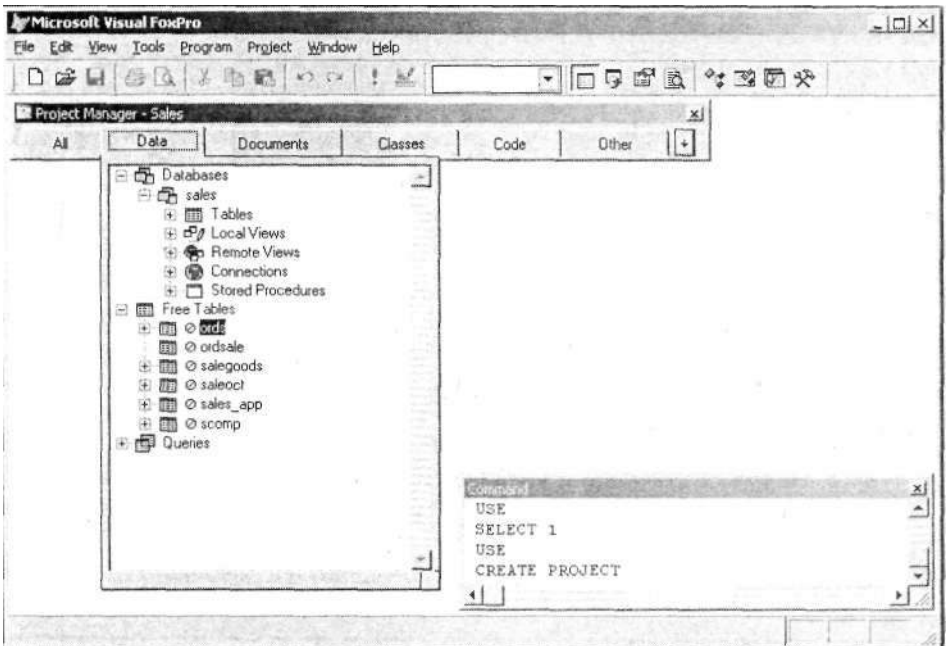
- 1.
- 2.
- 3.



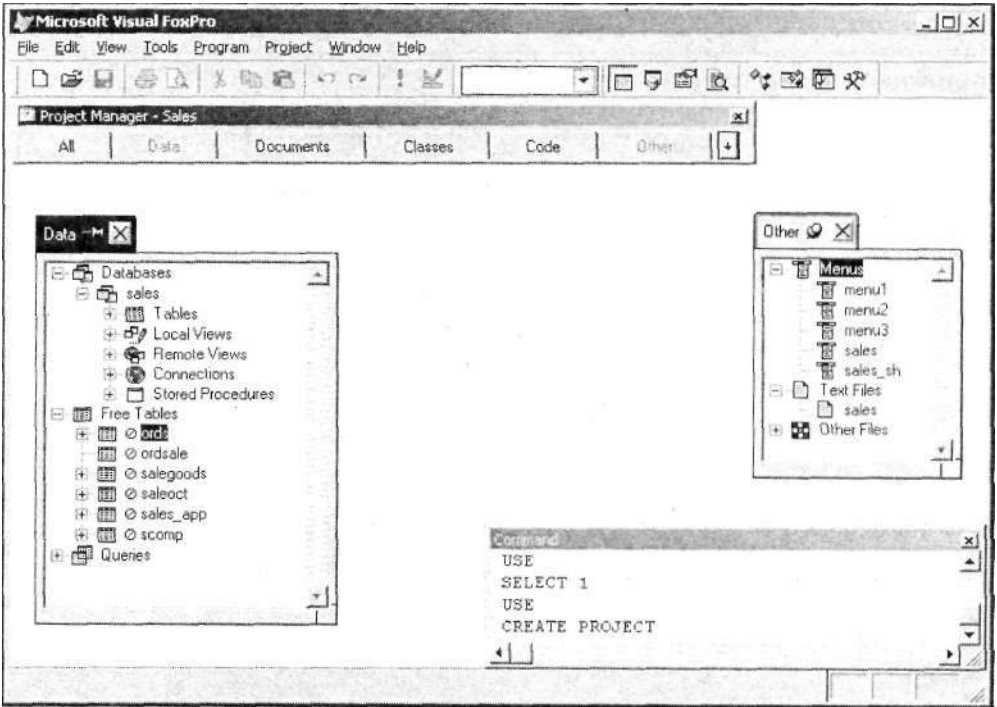
. 3.4.



. 3.5.



. 3.6.



. 3.7.

Project (), Visual FoxPro -
 , -
 . 3.2. , .
 3.2. Project

New File () , -

Add File ()

Modify File (-
)

Browse File

Browse

()

Preview File

(,)

-

()

Run File

()

Remove File

()

Rename File

()

Exclude ()

Include ()

Set Main

()

Edit Description

()

Project Info

()

Errors ()

,

Build ()

Refresh ()

Clean Up Project

()

,

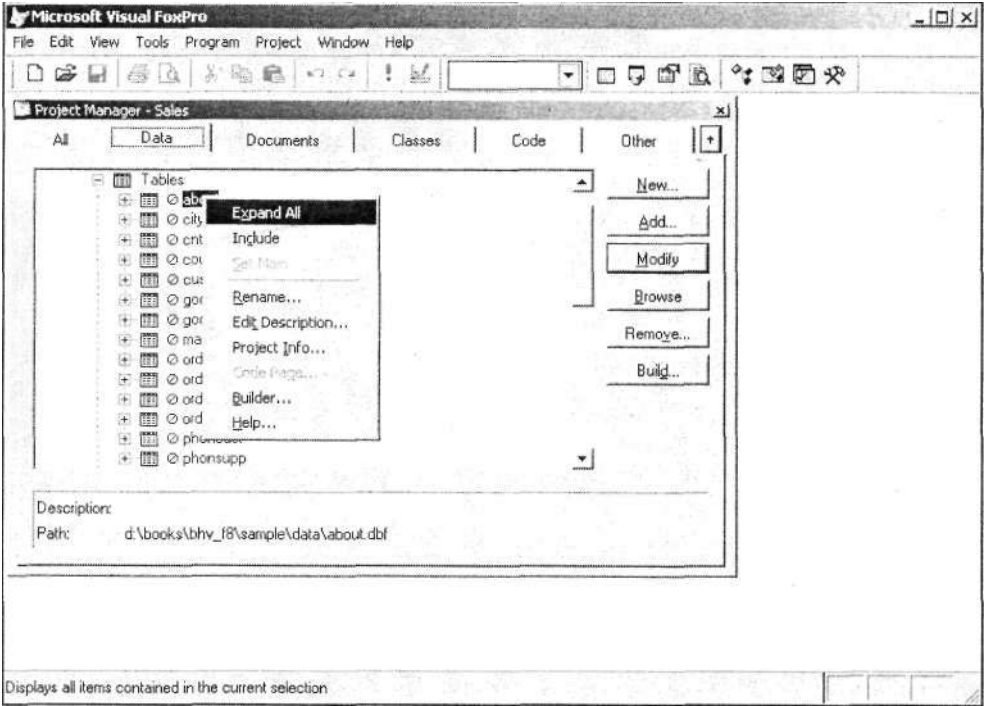
(. 3.8)

, -
-
Expand

Project (),

All (),
Project Manager ()

).



. 3.8.

. 3.3

3.3.

Project

New ()

Add ()

Modify ()

Remove ()

Run (, ,)

Preview (),

Browse (),

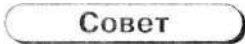
Build ()

Build

Options (),

Visual FoxPro 8.0

1. **File** () New ()
New ()
2. New. (),
Project () **Wizard** ().



Microsoft Visual FoxPro 8.0

Task Pane Manager (

Create a new application (

).

. 3.9.

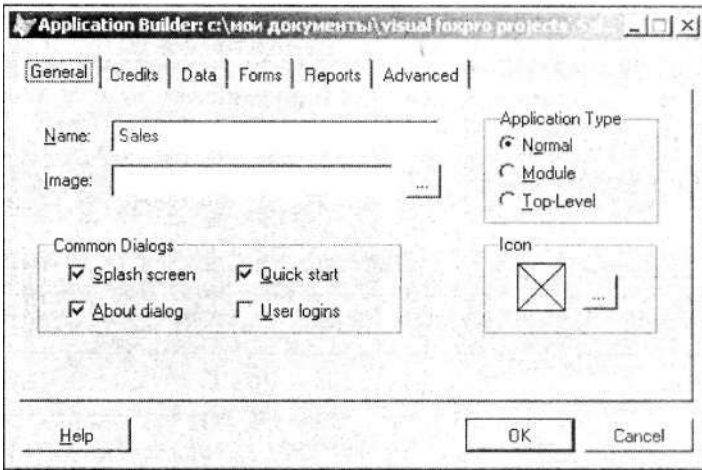


. 3.9.

3. Project name (), Project file (),
Browse (),

4. Application Builder () (. 3.10).

- Help — ;
- Cancel — ;
- —



. 3.10.

(. 3.4).

3.4.

Application Builder

General ()

Credits ()

Data ()

Forms ()	,	
Reports ()	,	
Advanced ()	-	-

General () (. . 3.10)	,	,	,	-
Name ()	,	,	.	
Image ()	,		.	
Application Type ()				-
(. 3.5).				

3.5. **Application Type**

Normal ()	Visual FoxPro, Visual FoxPro	
Module ()		-
Top Level ()	Microsoft Windows	-

Common Dialogs (),

(. 3.6).

3.6.

Common Dialogs

Splash screen

()

About dialog

(0)

0

Quick start

()

Quick Start,

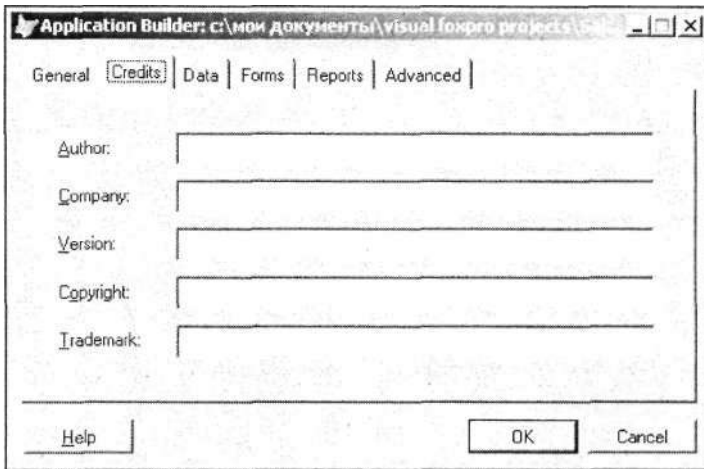
User logins

()

Icon ()

Builder (Credits () (. 3.11))

Application :



. 3.11.

Credits

Application Builder

(. 3.7).

3.7.

Credits
Application Builder

Author ()

Company ()

Version ()

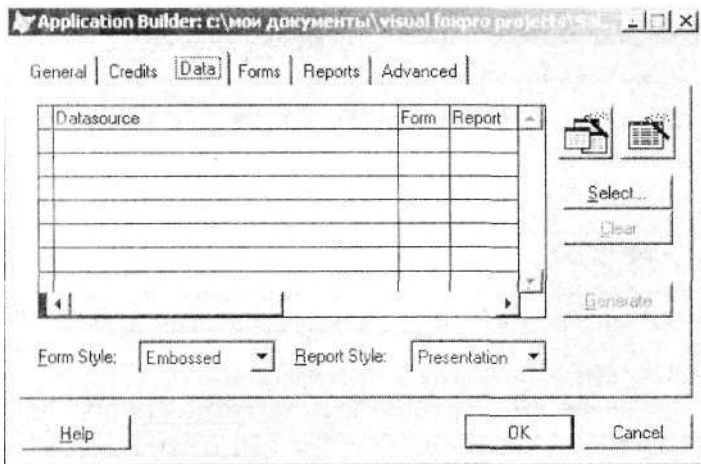
Copyright ()

Trademark ()

Data () (. 3.12)
)

Application Builder (-
-
-

(. 3.8).



. 3.12.

Data

Application Builder

3.8.

Data
Application Builder

Datasource

()

Form

()

Report

()

(. 3.9).

3.9.

Data
Application Builder



Select

()

Clear

()

Generate

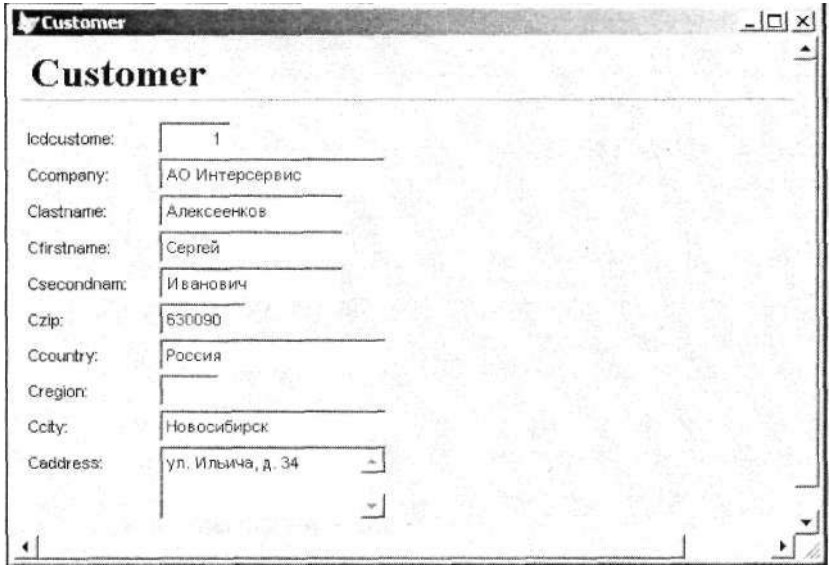
()

Form Style (),

. 3.13

Embossed ().

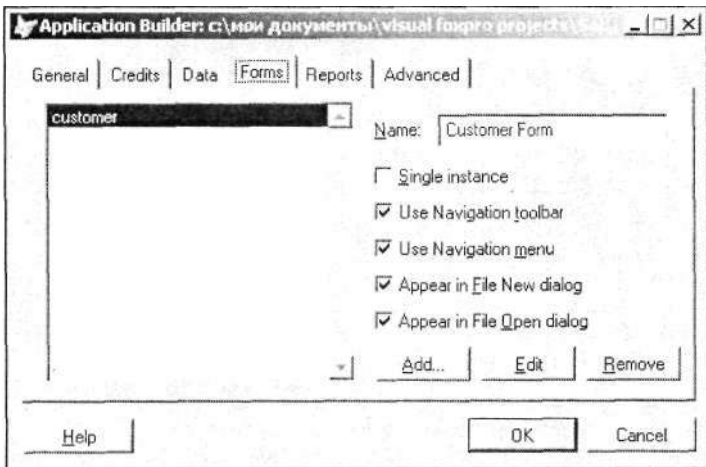
Report Style ().



. 3.13.

Embossed

Forms () (. 3.14)



. 3.14.

Forms

Application Builder

Data ()		Form ()	
(),		Generate	-
		Forms ().	-
Open (),		Add ().	-
			-
Name ()			-
		(. 3.10).	-

3.10.**Forms
Application Builder**

Single instance ()	-		-
Use Navigation toolbar ()	-		-
Use Navigation menu ()	-	Go,	-
Appear in File New dialog ()	-		-
New File)		New	File
Appear in File Open dialog ()		Open	File
Open File)			

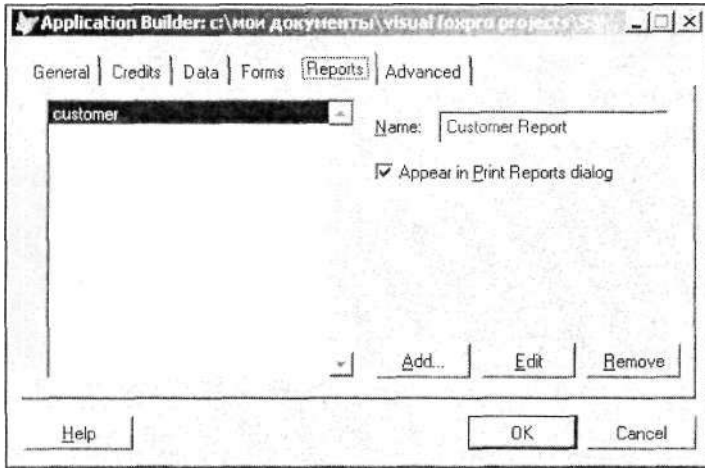
(. .11).

3.11.**Forms
Application Builder**

Add ()	Open (),
Edit ()	
Remove ()	

Reports () (. 3.15)
()

Application Builder



. 3.15. Reports Application Builder

Report () , Generate (-
) , Reports (-
) ,
Add () , Open () ,
Name ()
Appear in Print Reports dialog ()
() . Print Reports
(. 3.12).

3.12.

**Reports
Application Builder**

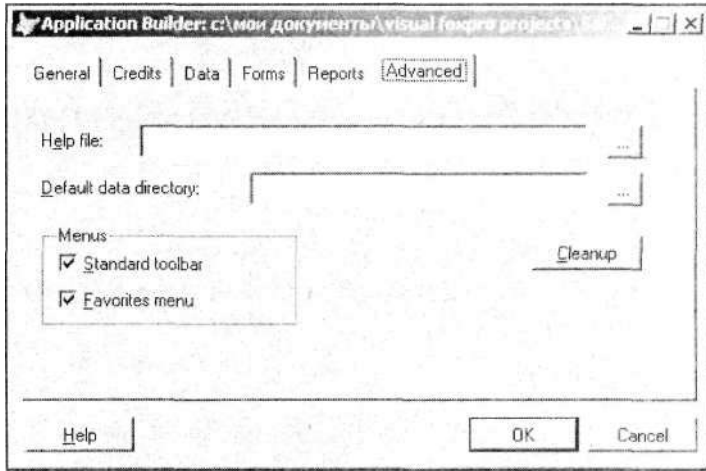
Add ()

Open ()

Edit ()

Remove ()

Advanced () (. 3.16)



. 3.16. Advanced Application Builder

Help file ()

Default data directory ()

Menus ()

(. 3.13).

3.13.

Advanced

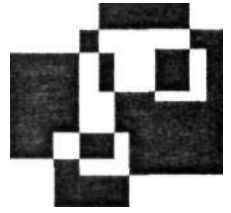
Application Builder

Standard toolbar ()

Favorites menu ()

Favorites (),

Cleanup ()



Visual FoxPro —

Visual FoxPro

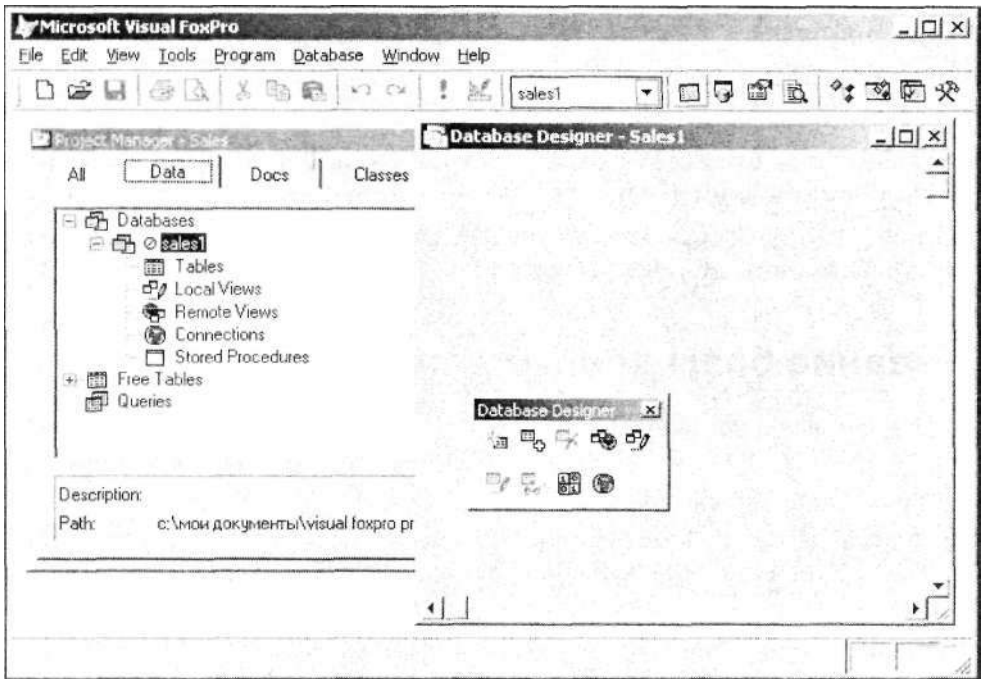
- ;
 - ;
 - ;
 - ;
1. Data
 2. Databases ()
 3. New ()
 4. New Database ()
 5. Enter database ()
Create ()
- Database (),

6.

Designer () (. 4.1). Database Designer (Database Designer (Database ()

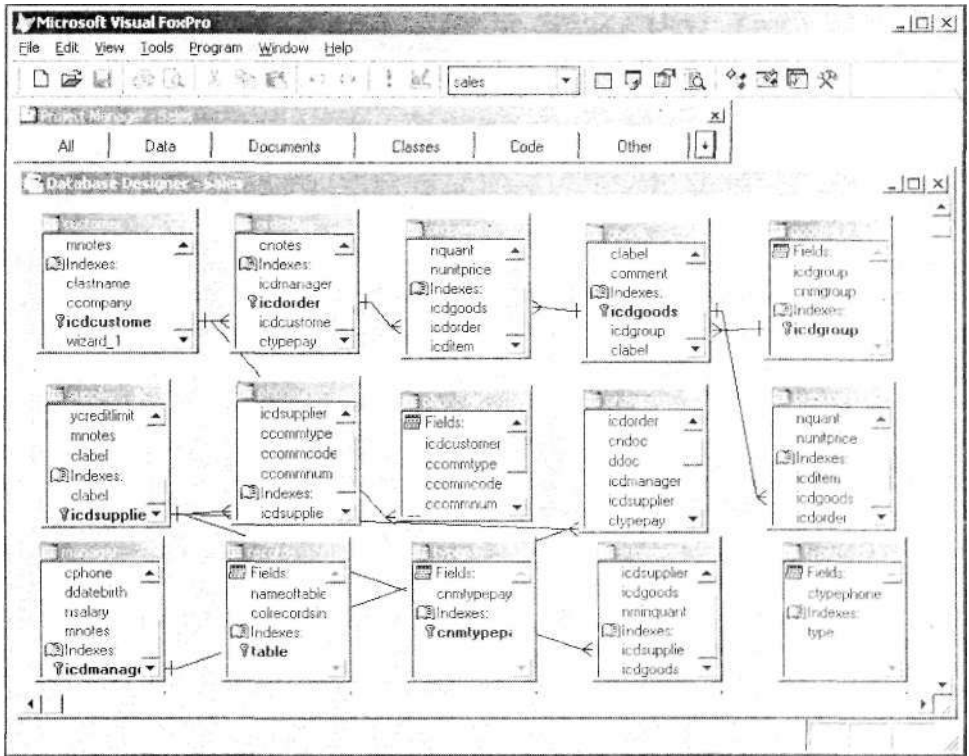
Замечание

Database Designer (View (Toolbars (Database Designer (Toolbars (Database Designer ()



. 4.1 .

. 4.2



4.2. Sales

- Database () (4.1);
 - ;
 - Database Designer ().
- 4.1. Database

New Table

()

Add Table

()

New Remote View

()

New Local View

()

Modify

()

Browse

() Browse ()

Remove

()

Find Object

() -

Rebuild Table Indexes

()

Remove Deleted Records

()

Edit Relationship

()

Edit Referential Integrity

()

Edit Stored Procedures

()

Connections

() (), **Connections** -

Arrange

()

Refresh

()

Clean Up Database

() -

Properties

() **Properties** () **Database**

Expand All () Collapse All (), -
,

Database Designer () -

. 4.3,

— . 4.2.












. 4.3.

Database Designer

4.2.

Database Designer

	New Table ()	
	Add Table ()	
	Remove Table ()	
	New Remote View ()	-
	New Local View ()	-
	Modify Table ()	-
	Browse Table ()	-
		Browse ()
	Edit Stored Procedures ()	
	Connections ()	

Visual FoxPro

- **File** () **New** () **Database** (),

New file ().
 Create (), Enter database (-
)

DBC.

- Task Pane Manager () -
 New Database () -
 Create (), -

- Command () CREATE
 DATABASE, :
 CREATE DATABASE [| ?]

Create (), -

Замечание

Visual FoxPro 8.0

FoxPro.

Visual FoxPro

Visual FoxPro,

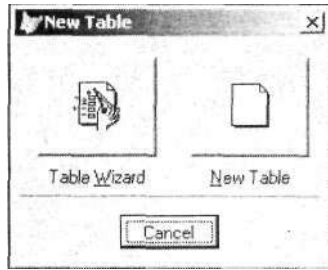
Create (), — Table
 ()
 Create ()

128 Name () Table ()

Замечание

Предупреждение

1. New Table () (. 4.4),
 - New Table () Database ();
 - New Table () ;
 - New Table () Database Designer ().
2. New Table () Table Wizard ().



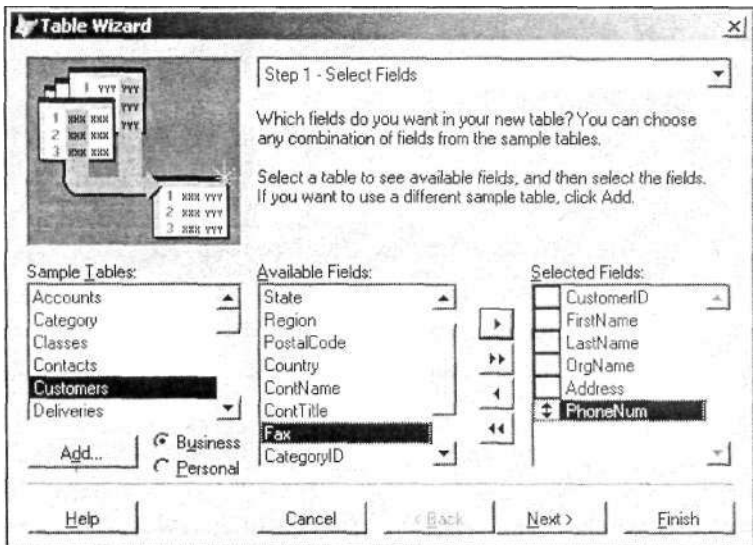
. 4.4. New Table

3. Visual FoxPro

Visual FoxPro

(. 4.5). **Sample Tables** ()

Available Fields ()



. 4.5.





Замечание

Sample Tables ()

Business ().
Accounts, Customers . . .
Personal ().

- 4. Available Fields ()
Selected Fields () , . 4.3.

4.3. Table Wizard — Step 1

	Selected Fields ()	Available Fields ()	
	Selected Fields ()	Available Fields ()	
	Available Fields ()	Selected Fields ()	
	Available Fields ()	Selected Fields ()	-

Замечание

Add (),
Open ()
Sample Tables ()

- 5. Next ().
(. 4.6)
. 4.4.

4.4. Table Wizard — Step 1

Create my table as a stand alone free table () -

Add my table to the following database () -

table ().

Create my table as a stand alone free

()

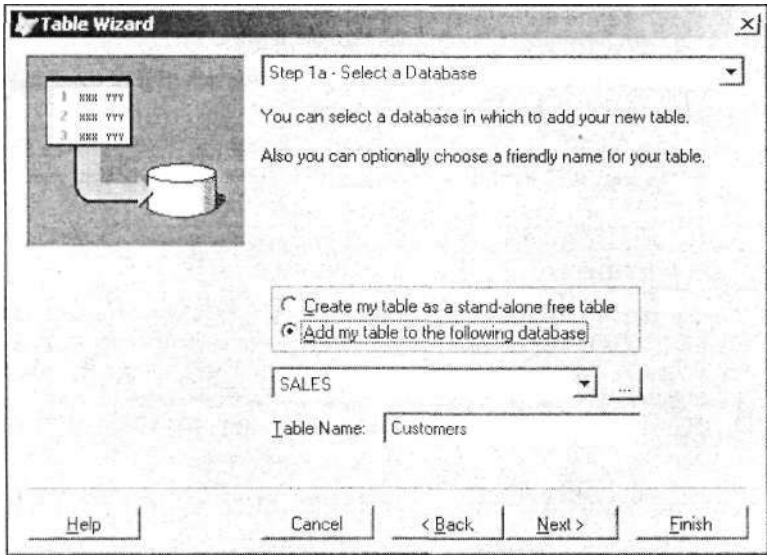
Add my table to the following database

Open ()

Table Name ()

Next

()



. 4.6.

6.

(. 4.7)

Field Name (), (), Width () Decimals ()
Caption (),

Allow null values ()

Input Mask (

- **Pre defined (**);
- **Custom mask (**).

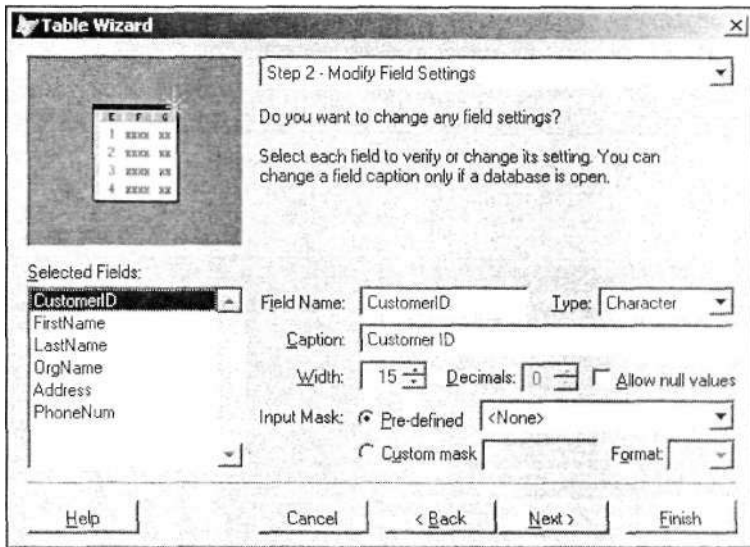
Visual FoxPro,

Pre defined (),

Custom mask ()

Format ().

Next ()



. 4.7.

7. (. 4.8)

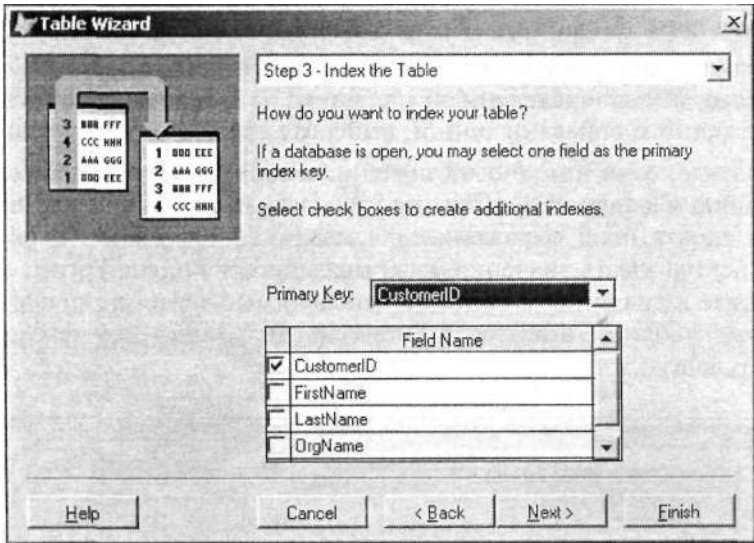
Primary Key (),

customer,

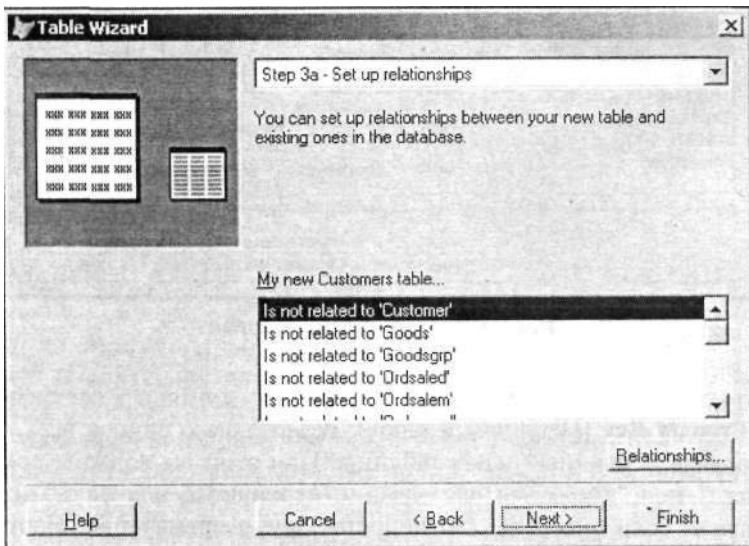
customer ID

Field Name (),

Next ().



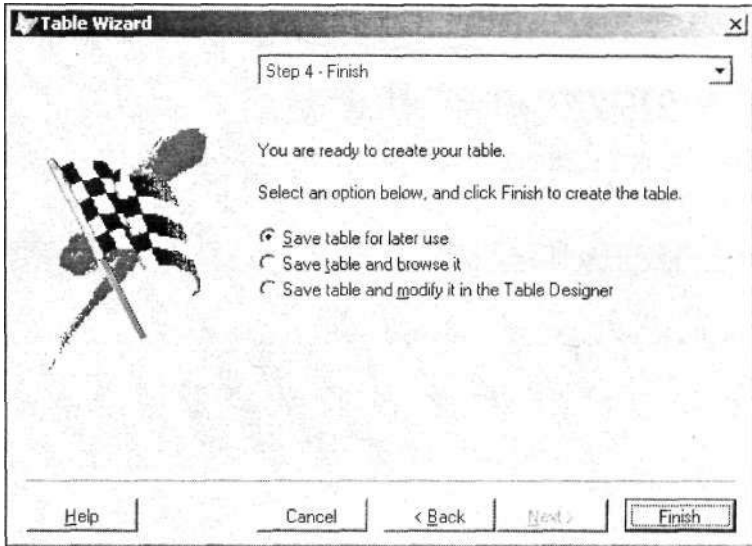
. 4.8.



. 4.9.

8. , , -
 ,
 (. 4.9). My new
 < _ > table ()
 Relationships (),
 Relationships (),

Замечание



. 4.10.

9. (. 4.10) -
 , . 4.5.
 4.5. Table Wizard — Step 4

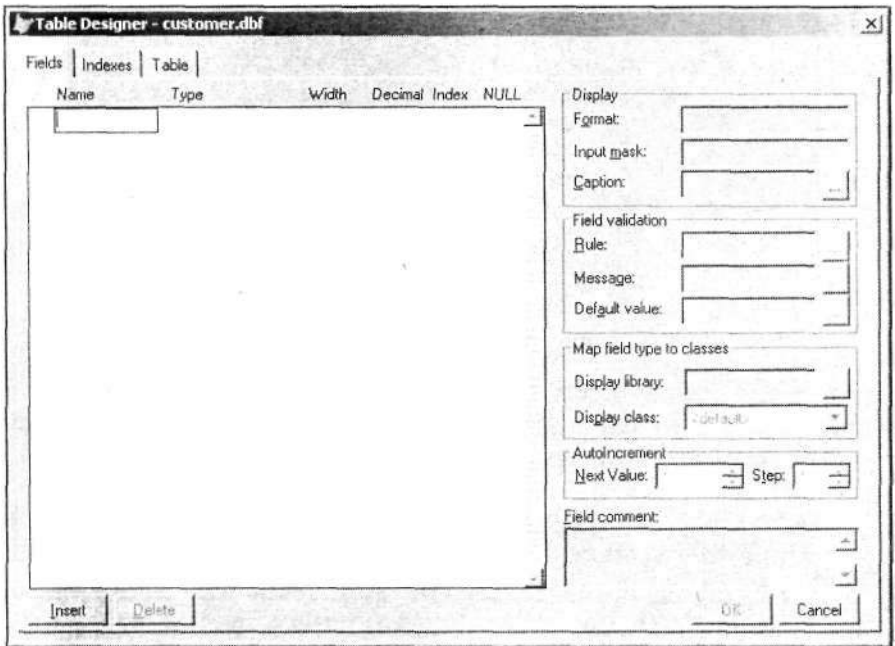
Save table for later use ()

Save table and browse it () Browse () -

Save table and modify in the Table Designer () -

Finish ().
Save As ()
Enter Table ()

Browse ()



(. . . 4.4), **New Table ()** **Create ()** **Table Designer**
 ().

Table Designer () (. 4.11)

- **Fields ()** — ;
- **Indexes ()** — ;
- **Table ()** — ,

Fields (),

Fields ()

Fields ()

Name ().

Visual FoxPro

128

Visual FoxPro

Fields ()	(), Width ()	Decimal ()
Visual FoxPro		4.6.
		4.6.
		<i>Visual FoxPro</i>

Character, Character (binary) 254

Character (binary)

Integer, Numeric, Integer 2147483647 +2147483647. Integer
 Float, Double, Integer (AutoInc)

Numeric Float
 0.9999999999*10⁺¹⁹
 +0.9999999999*10⁺²⁰
 Double
 ±4.94065648541247*10 324
 ±8.9884656743115*10+307

Currency 922337203685477.5807
 922337203685477.5807

Date Date 01.01.0001 31.12.9999 .

DateTime DateTime 01.01.0001 31.12.9999 .
 00:00:00 a.m. 11:59:59 p.m.

Logical) False (.F.) () **True** (.) ()

Memo, Memo Memo Memo (binary)

General

Fields () , -
 , -

Display () , -
 (. 4.7).

4.7.

Display

Fields

Format () , -

Browse

Input mask ()

Caption ()

Field validation () -
 , . 4.8.

4.8.

Field validation

Fields

Rule
 ()

Message , -
 ()

Default value , -
 ()

Map field type to classes () -
 , -

(. 4.9).

4.9.

Map field type to classes

Fields

Display library
 ()

Display class
 ()

Autoincrement ()
Integer (AutoInc)

. 4.10.

, -

4.10.

Autoincrement

Fields

Next () **Value** Integer (AutoInc)

Step () 1 255, -

Field comment ()

NULL

NULL

14.

Fields ()

Cancel ().

Insert

().

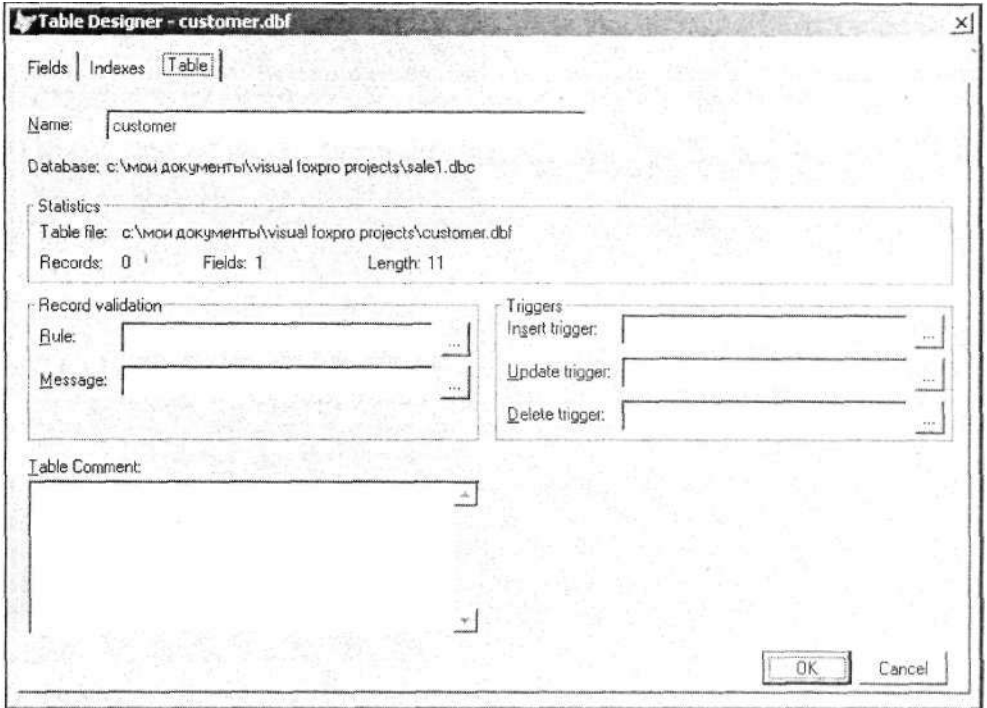
Delete ().

Insert () **Delete** ()

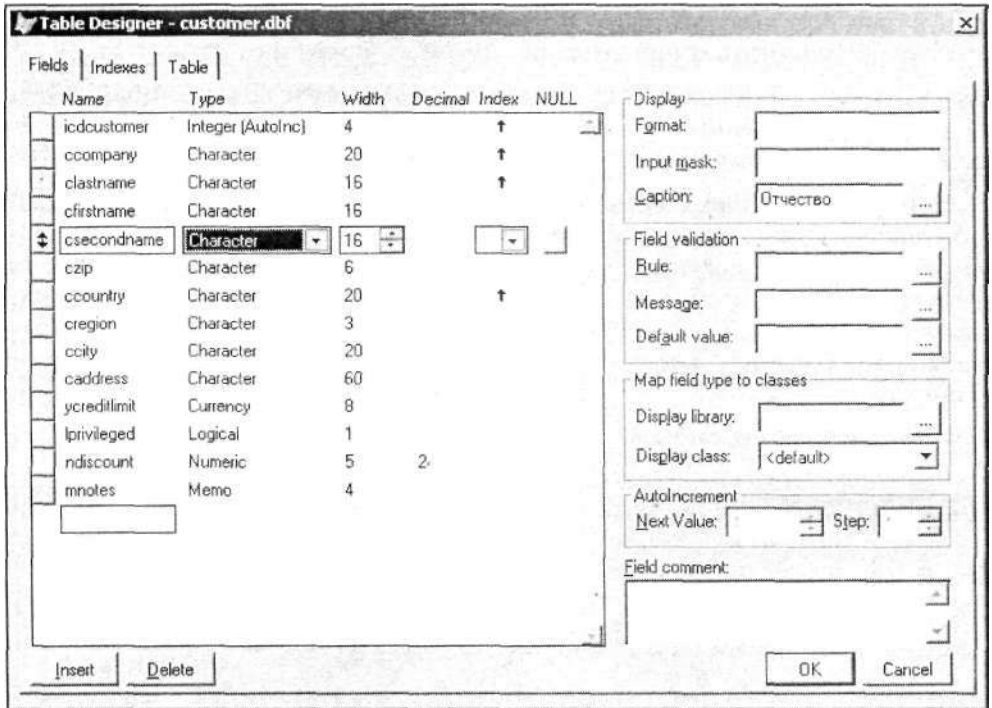
Indexes ()

) (. 4.12).
Name (),
Database () -
Table Comment () Table (-
)
Record validation () Triggers
().

14.



. 4.12. Table



. 4.13.

Customer

customer

(. 4.13),
sales,

1. Sales.

2.

Sales

Modify ().

3.

New Table (

Database Designer (

)
)

4. Enter table name (

Create

()

Customer

Table Designer

Name

().
().

5.

Name ()
icdCustomer.

< b>.

Integer (Autolnc)

()
()
<↓> <↑>.

Integer (Autolnc)

4.

6.

Caption (),

Display

(),

Field

comment ()

7.

< b>.

<↑> <↓>

Замечание

8.

cCountry,

Default value ()

9.

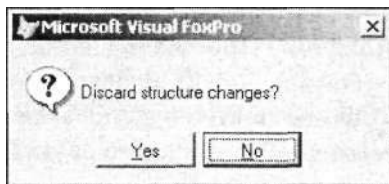
Замечание

Cancel ()

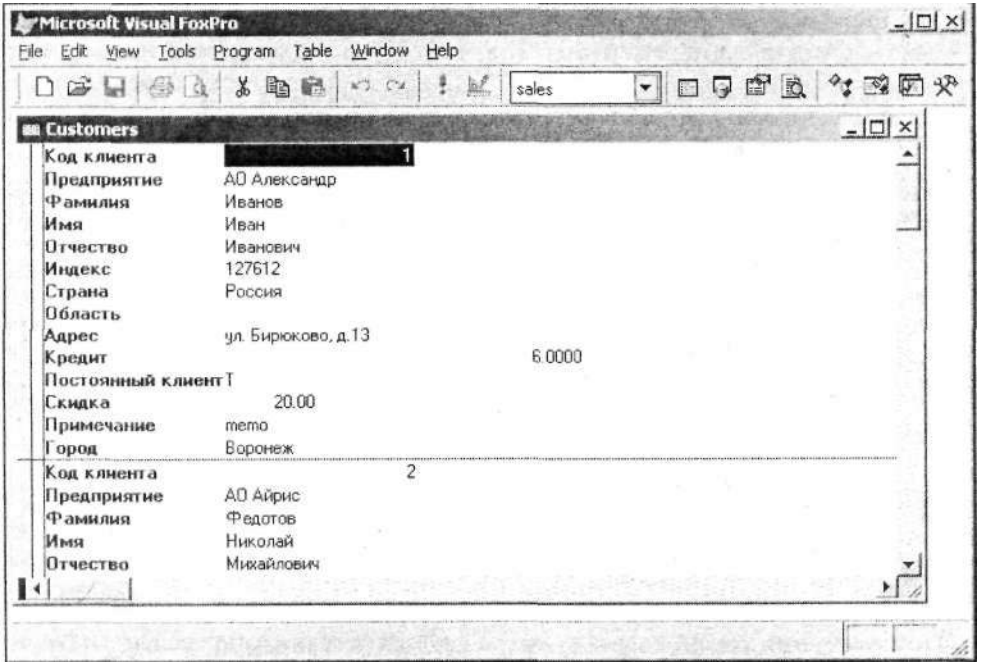
).

(. 4.14).

Yes ().



Visual FoxPro : Edit ()
 (. 4.15) Browse () (. 4.16).



. 4.15.

Edit

Edit () (. 4.15)

Visual FoxPro

Browse () (. 4.16)

Browse (),

Append New Record () **Table** ()
) <Ctrl>+<Y>.

Microsoft Visual FoxPro

File Edit View Tools Program Table Window Help

sales

Customers

Код клиента	Предприятие	Фамилия	Имя	Отчество	Индекс
1	АО Александр	Иванов	Иван	Иванович	127612
2	АО Айрис	Федотов	Николай	Михайлович	270005
3	АО МикронСервис	Петров	Виктор	Игоревич	270029
4	Офис-Сервис	Антонов	Тимофей	Аркадьевич	173024
5	АО Микрон	Кузьмин	Василий	Павлович	173003
6	СП Людмила	Соколова	Надежда	Викторовна	173003
7	Банк Программ	Смирнов	Андрей	Владимирович	142432
8	ОО Интерком	Симонов	Константин	Федорович	443115
9	АО Фангом	Зайцев	Константин	Сергеевич	270029
10	ОО Арком	Ивлев	Михаил	Юрьевич	443080
11	СП Сервис-Плюс	Луначарский	Юрий	Степанович	220045
12	АО РосКом	Германский	Анаголий	Васильевич	252096
13	АО Интсервис	Смехов	Виталий	Петрович	252098
14	АО Интсервис-Плюс	Казанский	Сергей	Иванович	452984
15	ОО ЭЛСОВ	Филиппов	Михаил	Николаевич	238726
16	ОО Спингер	Никифоров	Андрей	Анатольевич	128264
17	АО Компонент	Мельников	Филипп	Петрович	630056

. 4.16.

Browse

Замечание

Edit () Browse ()
View ().

File () Modify () Project () Modify

Modify ().

Database ().

),

Modify Table (-
 Database Designer (-
 Modify ()
 Table Designer (-

<Backspace> ,

()



1.

(Name (), () Width ()).

2. Insert ().

3. Visual FoxPro NewFld. -

4. (),

5. Width ()

Delete ()

1.



- 2.
- 3.
- 4.

Замечание

Visual FoxPro

Visual FoxPro

(. 4.17)

Visual FoxPro

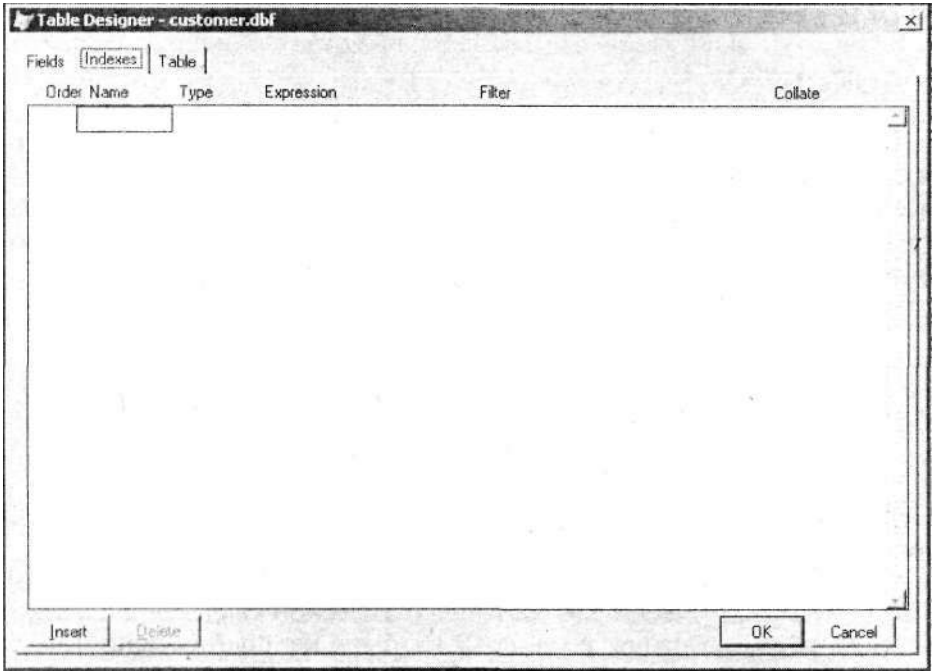
Table Designer (

Order (

Indexes ()

Name ().

<Spacebar>



. 4.17. Indexes

()

. 4.11.

4.11.

Regular

()

Unique

(-)

Candidate

()

Primary

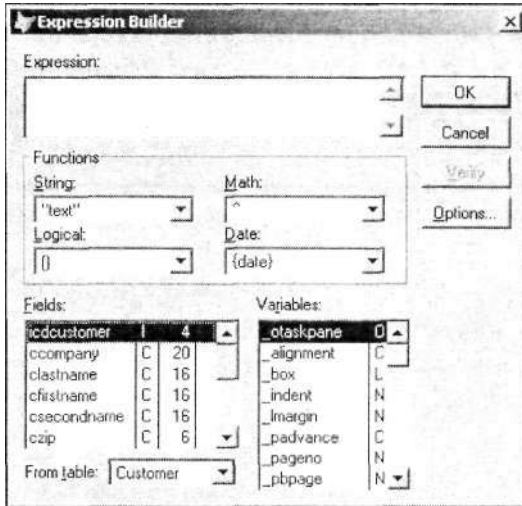
()

Expression

Expression Builder ()

. 4.18.

Expression ()



. 4.18.

Expression Builder

Customer

cCountry + STR(icdCustomer)

Filter ()

Замечание

Visual FoxPro

Visual FoxPro

Memo

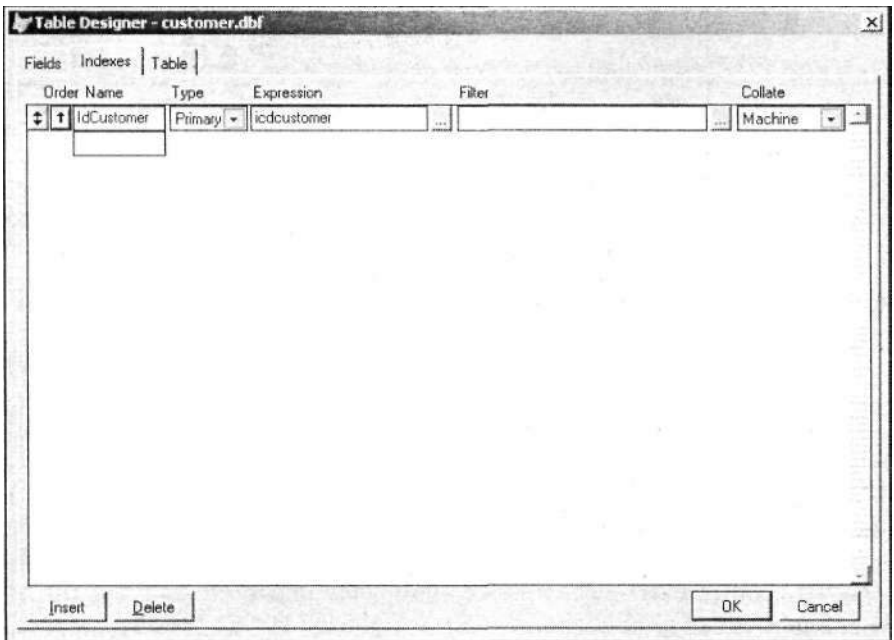
customer.

icdCustomer

1.

customer.

Modify ()



- 2. **Table Designer** ()
- Indexes** ().
- 3. **Name** () icdcustomer.
- 4. () -
- Primary** ().
- 5. **Expression** () -
- icdCustomer.
- 6. **Order** ()

. 4.19.

- 7. Customer, -
- 1. **Table Designer** ()
- customer **Indexes** ().
- 2. **Name** () CustName.
- 3. () -
- Regular** ().
- 4. **Expression** () -
- :

cLastName + cFirstName + cSecondName

- 5. **Verify**
- (),
- 6.

" , " " , " " , " "

Visual FoxPro.

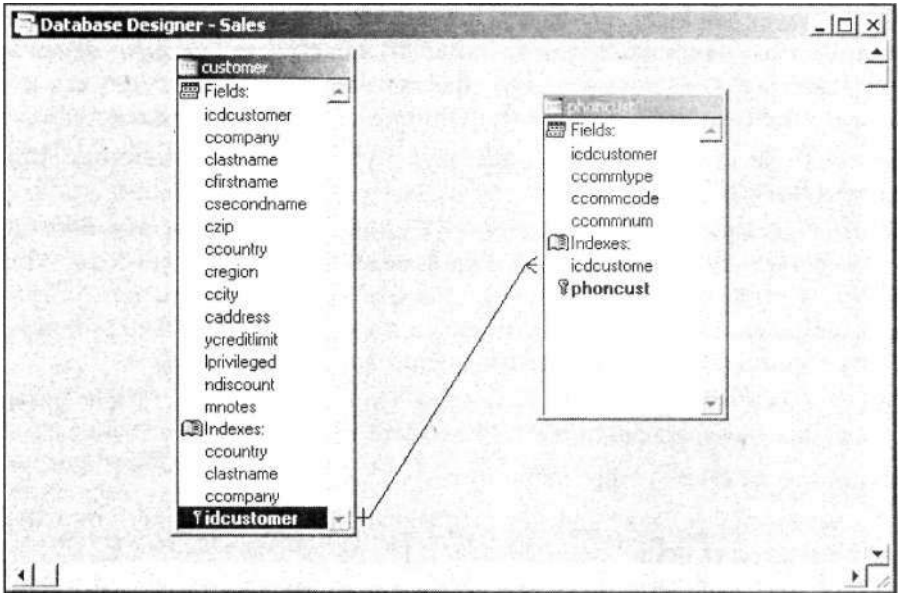
" "

,

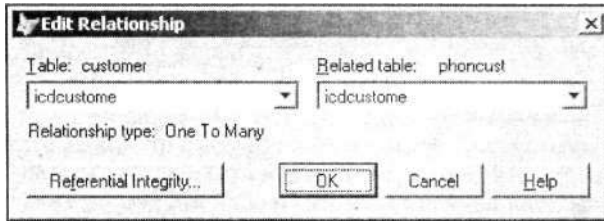
- 3. **Indexes** ()
 icdCustomer. **Name** () -
 icdCustomer. , .
- 4. () **Primary**
 () .
- 5. **Expression** ()
Expression Builder (-
) **Fields** () -
 icdCustomer. **Expression** () . -
- 6. customer .
- 7. PhonCust.
- 8. **Indexes** () **Regular**
 () icdCustomer.
- 9. .
- 10. Customer. .
- 11. icdCustomer.

Замечание

- Indexes () , -
 , . -
 , .
- 12. PhonCust, .
- 13. .
- 14. (. 4.20).
 () (. 4.21), **Edit Relationship** -
 , -
 , . -
 , . -
Cancel () .

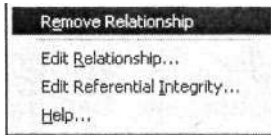


. 4.20.



. 4.21.

Edit Relationship



. 4.22.

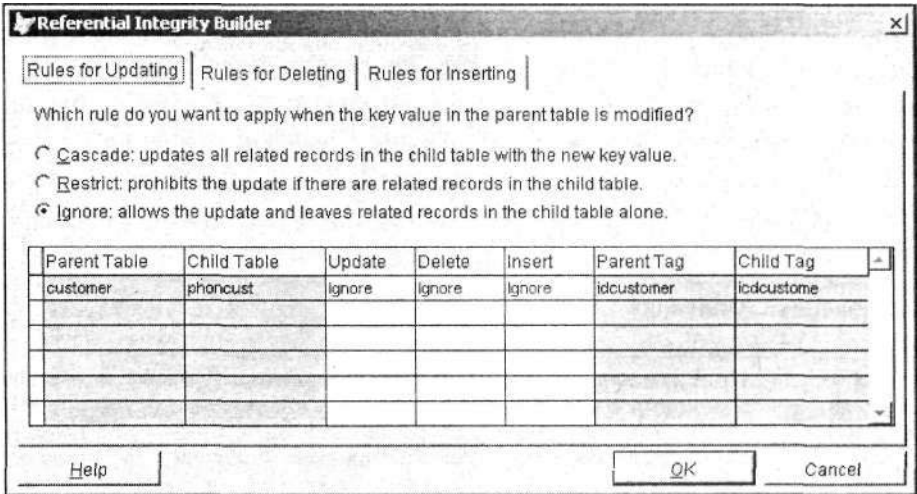
Remove Relationship ()

(. 4.22).
 Edit Relationship (-
 Edit Relationship

(),
 Edit Referential Integrity (Referential Integrity Builder ()
)

Ordsalem, sales
 Customer
 Ordsalem
 Customer,

Ordsalem customer.
 customer



4.23. Referential Integrity Builder

Referential Integrity Builder (

) (. 4.23),

:

•

Edit Referential Integrity (

);

•

Database (

Edit Referential Integrity

();

•

Edit Relationship (

)

Referential Integrity (

).

Замечание

Referential Integrity Builder

() Visual FoxPro

Database (

Clean

Up Database (

),

Update (), **Delete (**) **Insert (**).

Visual FoxPro

Candidate (

(. 4.12).

4.12.

Visual FoxPro,

Candidate

Cascade

()

Customer Ordsalem,
Customer
Ordsalem

Restrict

() , -
Customer Ordsalem, -

Ignore

() -
Visual FoxPro -
Referential Integrity Builder () -
(. 4.13).

4.13. Visual FoxPro,

Cascade

() , -
Restrict () , -

Ignore (-) ,

Referential Integrity Builder,

Visual FoxPro -
(. 4.14).

4.14. Visual FoxPro,

Restrict

()

Ignore (

)

Referential Integrity

Builder ()

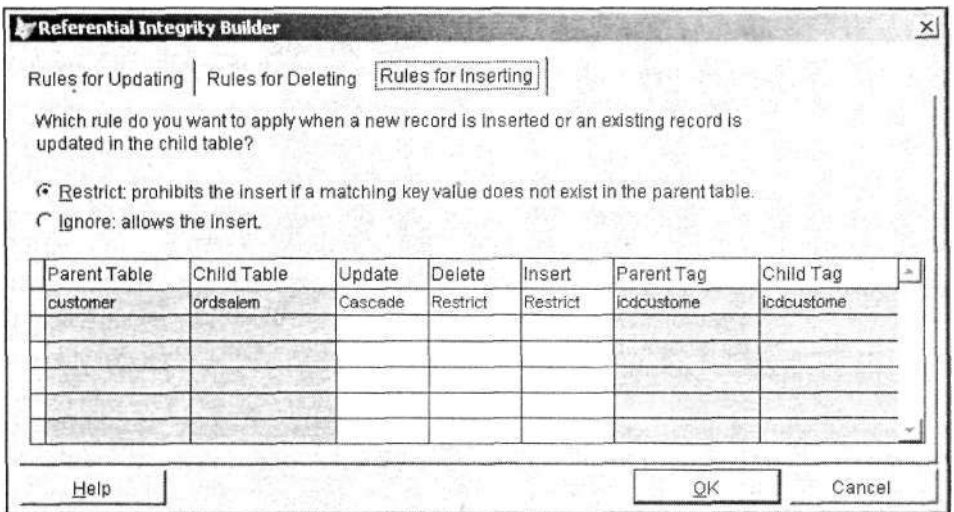
Customer Ordsalem.

- 1.
2. customer
- Ordsalem.
- 3.
- 4.

Edit Referential Integrity ()

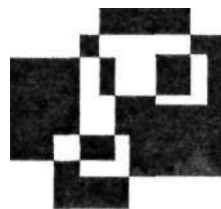
Referential Integrity Builder (

).



5. , **Update** ()
Cascade ().

6. Customer **Delete** () **Restrict** (-
. 4.24 , -



Visual FoxPro

FoxPro,

Visual

. 5.1

Замечание

Visual FoxPro (

FoxPro

Windows)

Visual FoxPro

- **Form Wizard** —

- **Form Builder** — ;
- **Builder** — ;
- **AutoFormat Builder** — ;
- **Form Designer** — .



. 5.1.

Form Wizard ().

15.

Visual FoxPro.

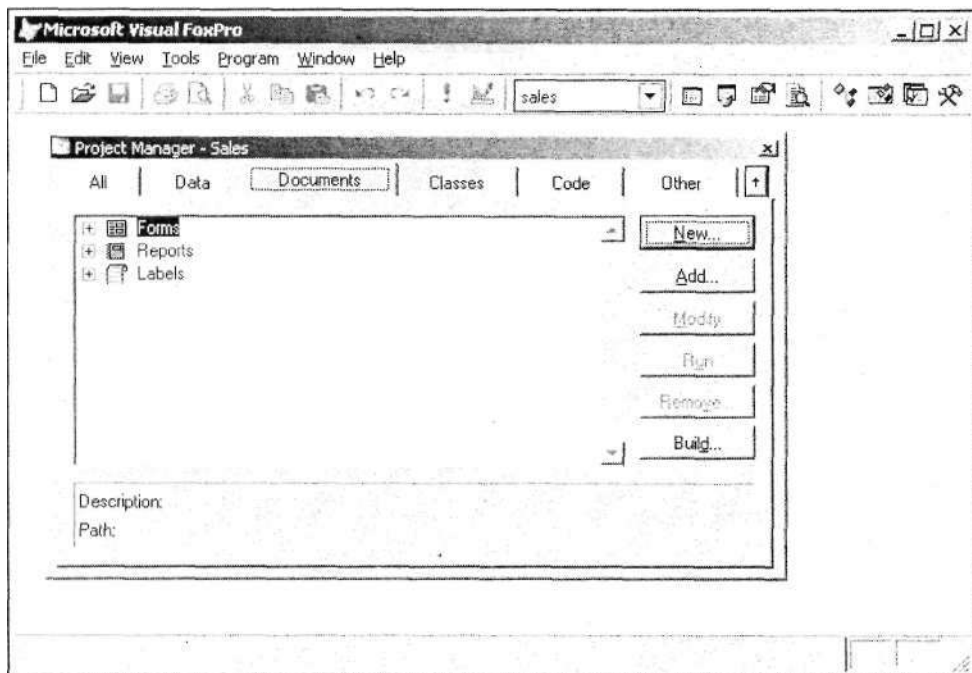
- **Tools** (), **Wizards** (),
Form ().
 - **Form Wizard** () **New**
Form (),
 - **Wizard** () **New** (),
New ()
New () **File** ().
1. **Data** ()
Open ()
 - Databases** ()
 2. **Documents** ()
Documents () (. 5.2).
 3. **Forms** () **New** ()
New Form () (. 5.3).
 4. **Form Wizard** ().
 5. **Wizard Selection** () (. 5.4). **Form Wizard**
()
a **One to Many Form Wizard** () —

Замечание

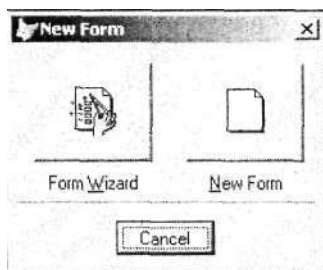
Next ().

Back ().

Cancel ().

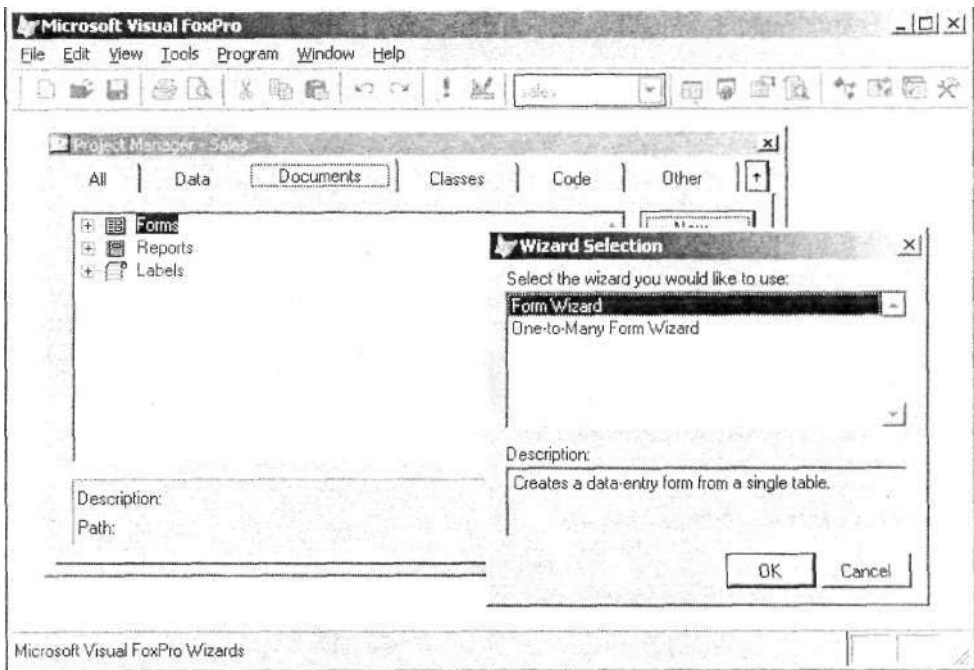


. 5.2.

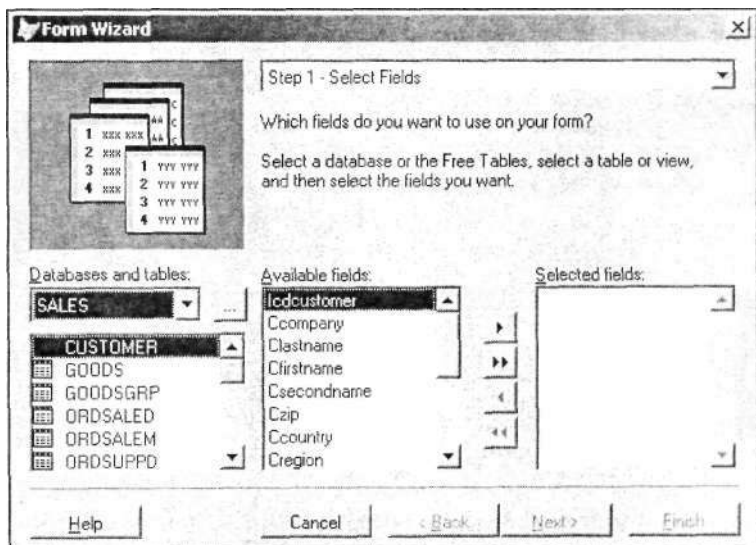


. 5.3.

New Form



. 5.4.



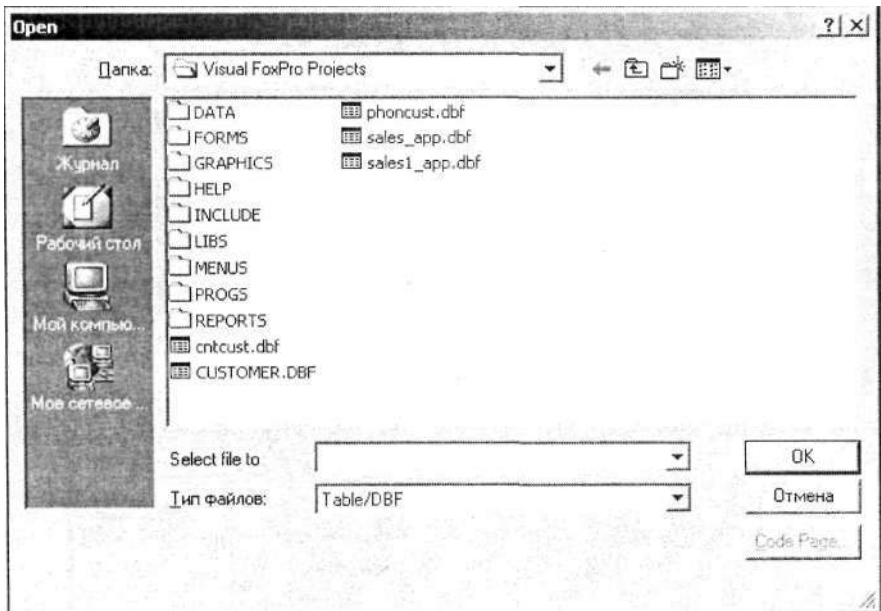
. 5.5.

6. (. 5.5),
 Databases and tables
 ()

Замечание

Databases and tables ()

Open ()
 (. 5.6).

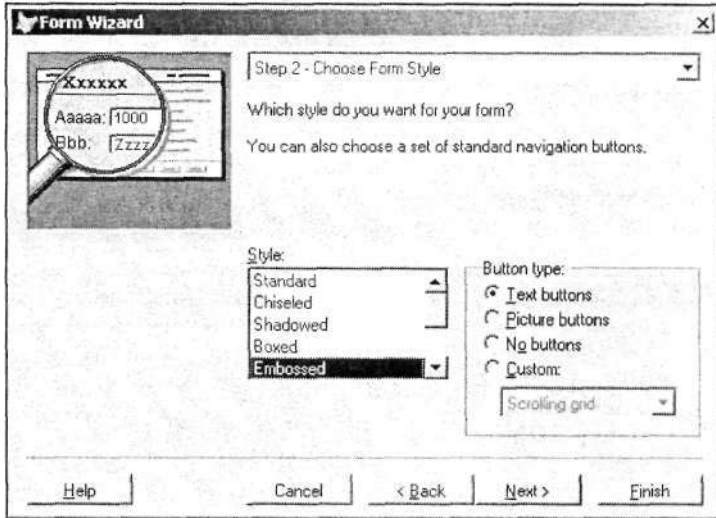


. 5.6. Open

7. Available fields ()
 Selected fields ()

Next ()

(. 5.7).



. 5.7.

8.

Style ().

Button type ()

(. 5.1).

5.1.

Button type

Text buttons

()

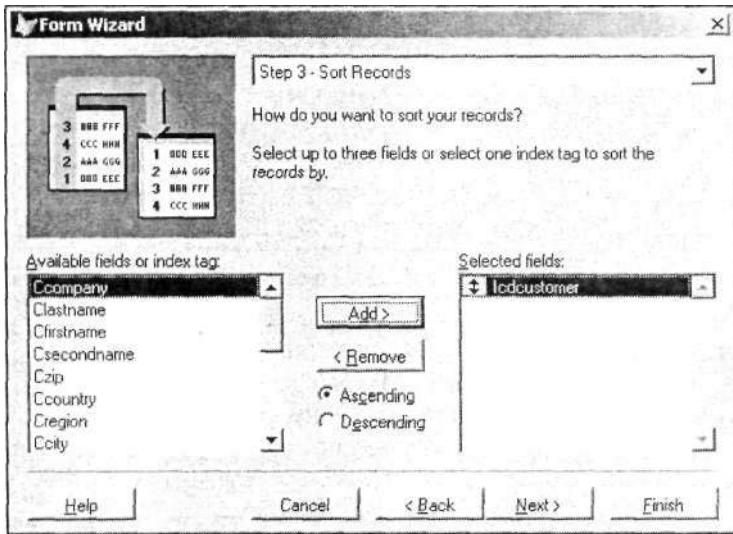
Picture buttons () -

No buttons
()

Custom (), **Print** (), **Add** (), **Delete** (), **Find** (), **Exit** ().

Next ().

9. () (. 5.8).



. 5.8.

Selected fields ().

Available fields or index tag ()

Selected fields ()

Add ()

Add ().

Selected fields ().

Selected fields ()

Remove (). Available
fields or index tag ().

Ascending () Descending () -

Next ().

10.

(. 5.9)

Type a title for your form (-

),

. 5.2.

5.2.

Form Wizard—Step 4

Save form for later use (
)

Save and run form (-
) -

Save form and modify it in the Form
Designer (-
) -

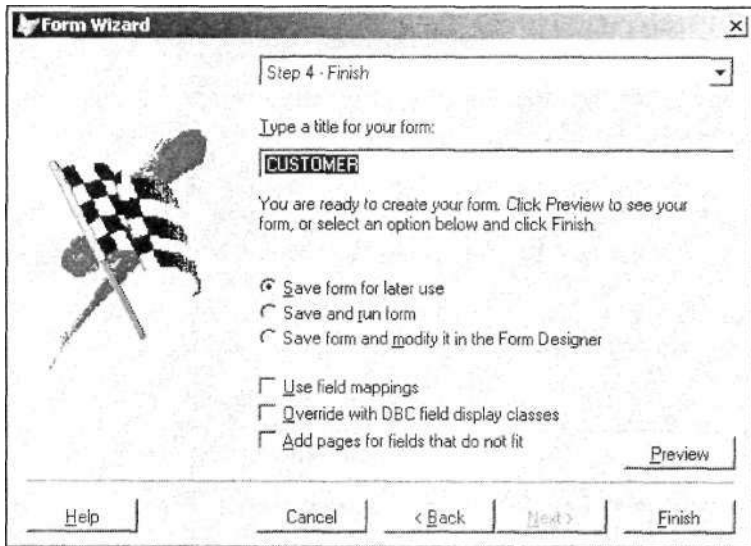
- Use field mappings () —

Field mapping () -
Options (), Tools (). Options (-

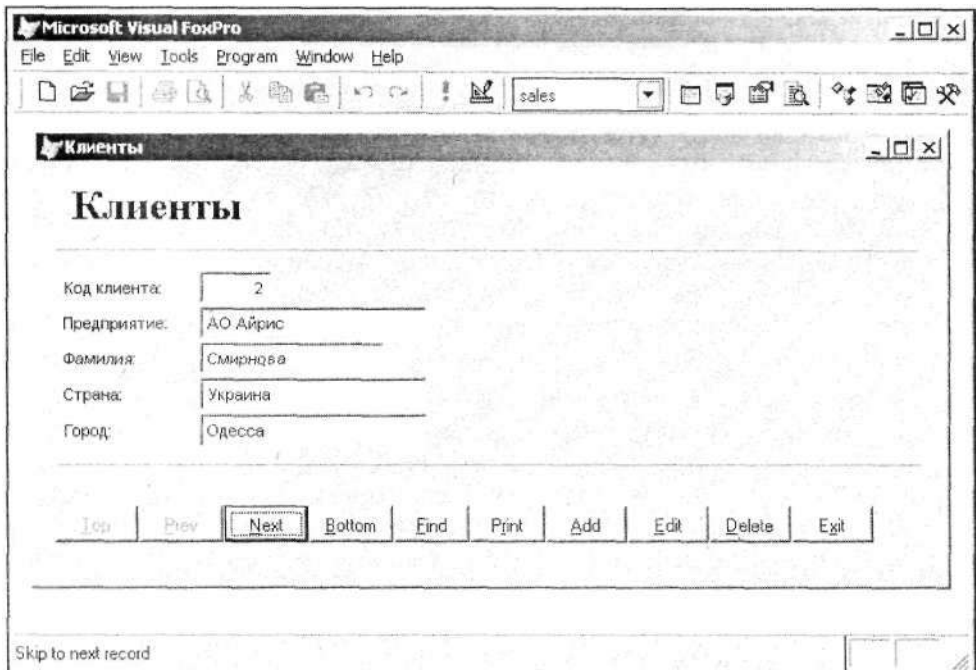
- Override with DBC field display classes (, -
).

Fields () Display class () -
Map field type to classes (-
). Use field
mappings;

- Add pages for fields that do not fit (-
)



. 5.9.



. 5.10.

Preview (),
 Save As (), Finish ().

5.10

Замечание

Table Designer (Caption () -
) -

Visual FoxPro, -
 FoxPro Windows. -

Visual FoxPro -

- Form () Run Form ().
- Run Form ()
- Run ()


Visual FoxPro.

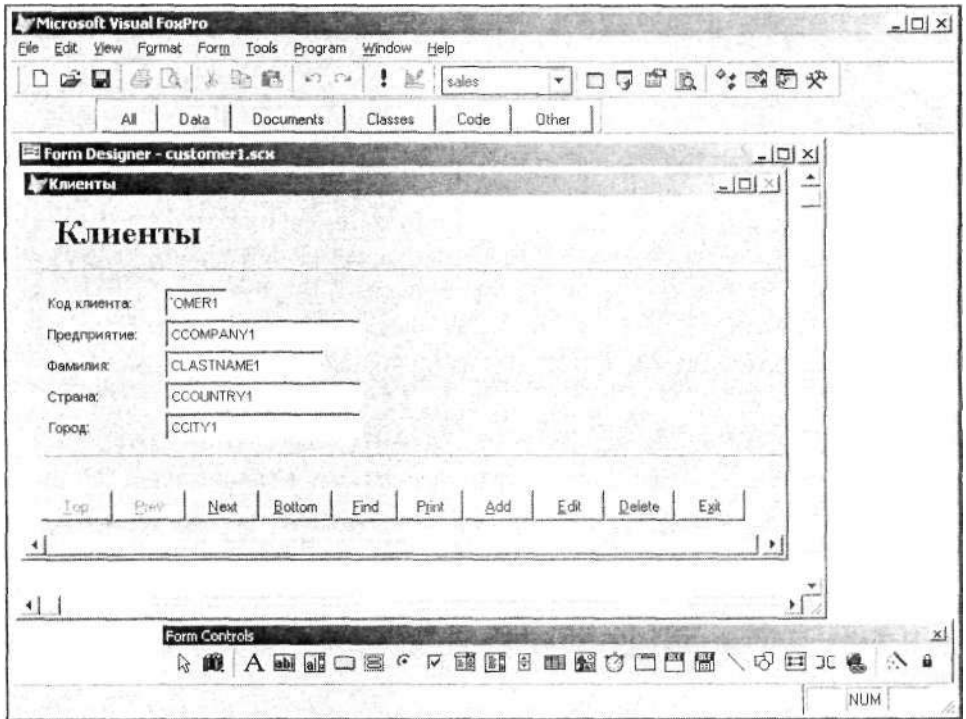
<Ctrl>+<E>.

Run.

1. Program () Do ().
2. Do ()
 (— Form ())
3. Do ().

(. 5.11).

- :
Modify () ;
- ;
- Modify File () Project () ;
- Modify Form () -




.5.11.

Замечание

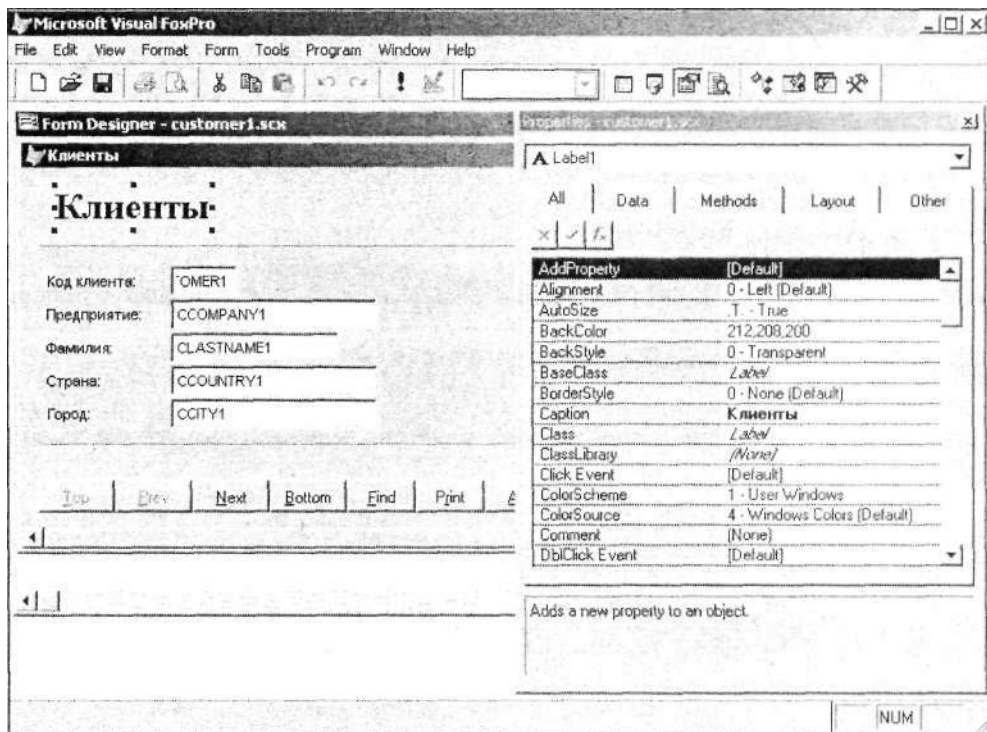
Save form and modify it in the Form Designer ()

Properties ().

Properties Window () 

Form Designer ().

Properties ()
(. 5.12).



. 5.12. Properties

Properties ()

(. 5.3).

5.3.

Properties

All ()

Data ()

Methods (-)

Layout (-)

Other ()

Data () Layout ()

Properties ()

. 5.4.

5.4.

Baseclass

. 5.12

()

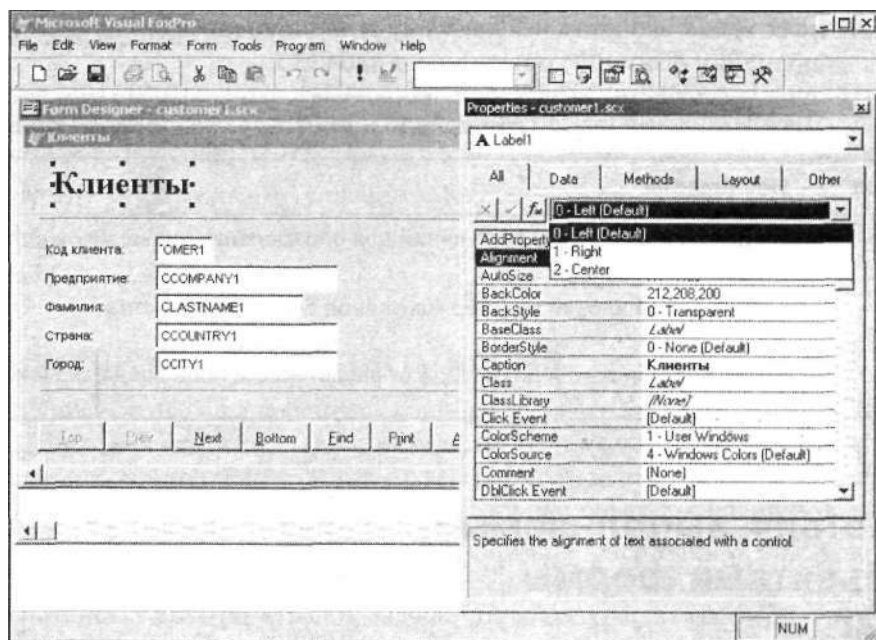
Caption ()

. 5.13

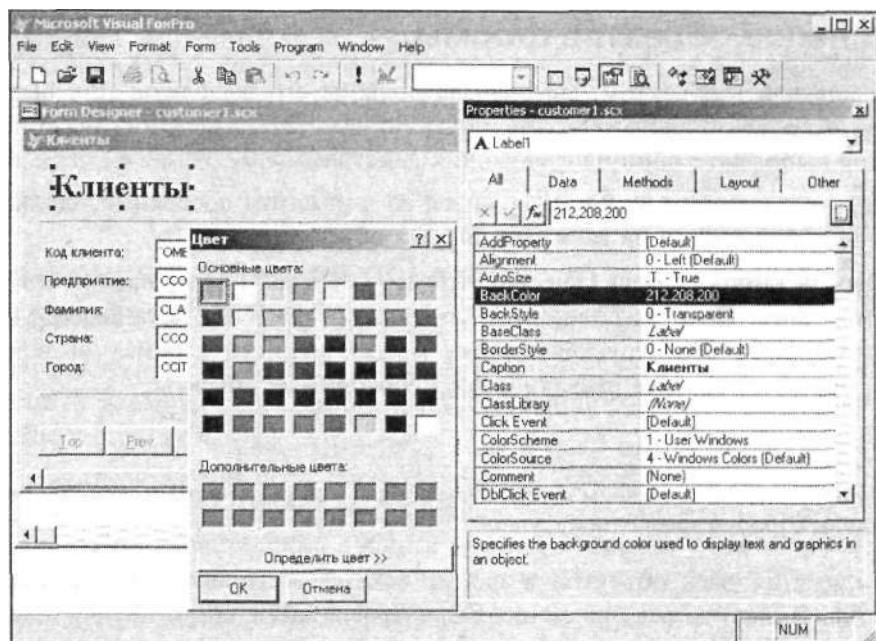
Alignment ()

. 5.14

BackColor ()



. 5.13.



. 5.14.

BackColor

. 5.5.


5.5.

Properties

,

,

• <Shift>.

• **Select Objects** ()
Form Controls ().

Замечание

Select All () **Edit** ()
<Ctrl>+<A>.

1. <Shift>.
2. ,

Visual FoxPro

- **Edit** () **Cut** ();
- <Backspace>;
- .

Height width,

Properties ()

Format (),

Layout

(),

- . 5.6
- . 5.7 —

Format,

5.6.

Align Left Sides

().

Align Right Sides

()

Align Top Edges

()

Align Bottom Edges

()

Align Vertical Centers

()

Align Horizontal Centers

()

Center Vertically

()

Center Horizontally

()

5.7.

Size To Fit

()

Size To Grid

()

Size To Tallest

()

Size To Shortest

()

Size To Widest

()

Size To Narrowest

()

Horizontal Spacing () Vertical Spacing () (. 5.8).

5.8. Horizontal Spacing Vertical Spacing

Make Equal () -

Increase ()

Decrease ()

Format () , (. 5.9).

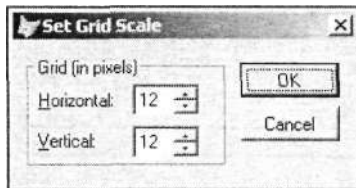
5.9. Format

Bring to Front ()

Send to Back ()

Grid Line () View ().

Set Grid Scale () (. 5.15).
Format () Set Grid Scale ()
().



. 5.15. Set Grid Scale

Format ()

Snap to Grid ()

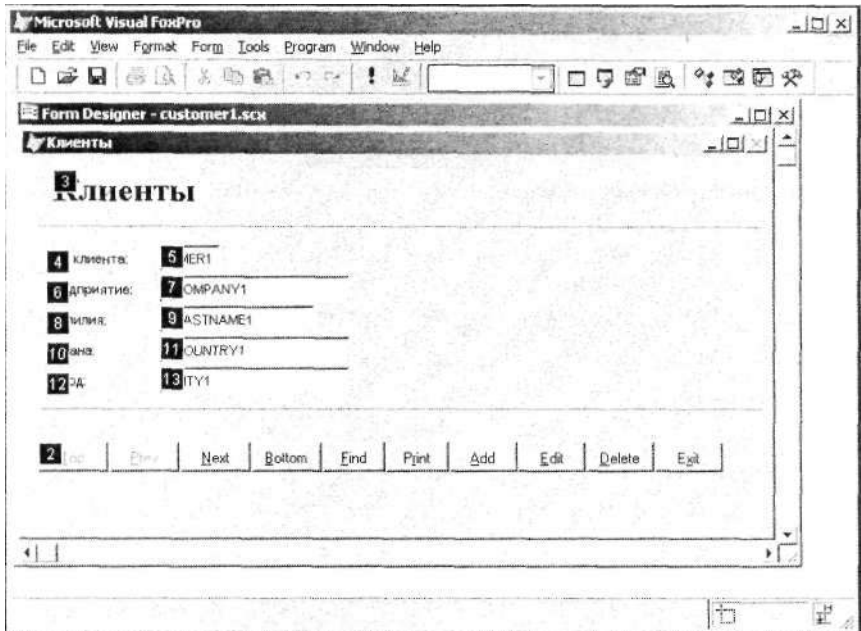
Замечание

Grid Line View,

< b>

View () Tab Order ()

. 5.16.



. 5.16.

Tab Order () **View** (),

Visual FoxPro

Forms () **Tab ordering** (**Options** ()).

Замечание

Options () **Tools** ()

Options () **Tab Ordering** (**Interactive** ()),
Tab Order ()

1. <Shift>.

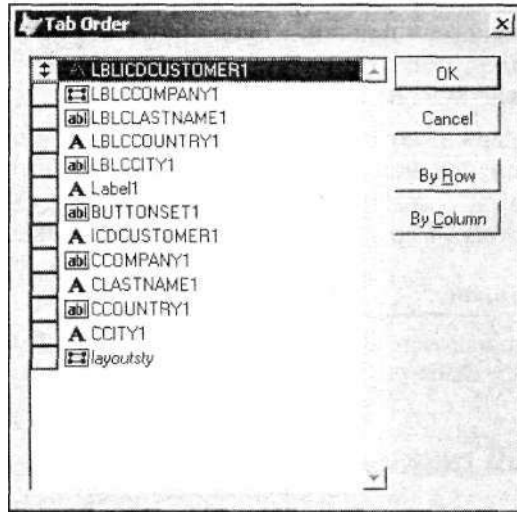
2. < b>.

3. <Shift>

Options () **Tab Ordering** (**By List** ()),
Tab Order () **View** ()
Tab Order ()

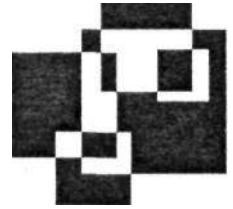
(. 5.17).

By Column () **By Row** ()




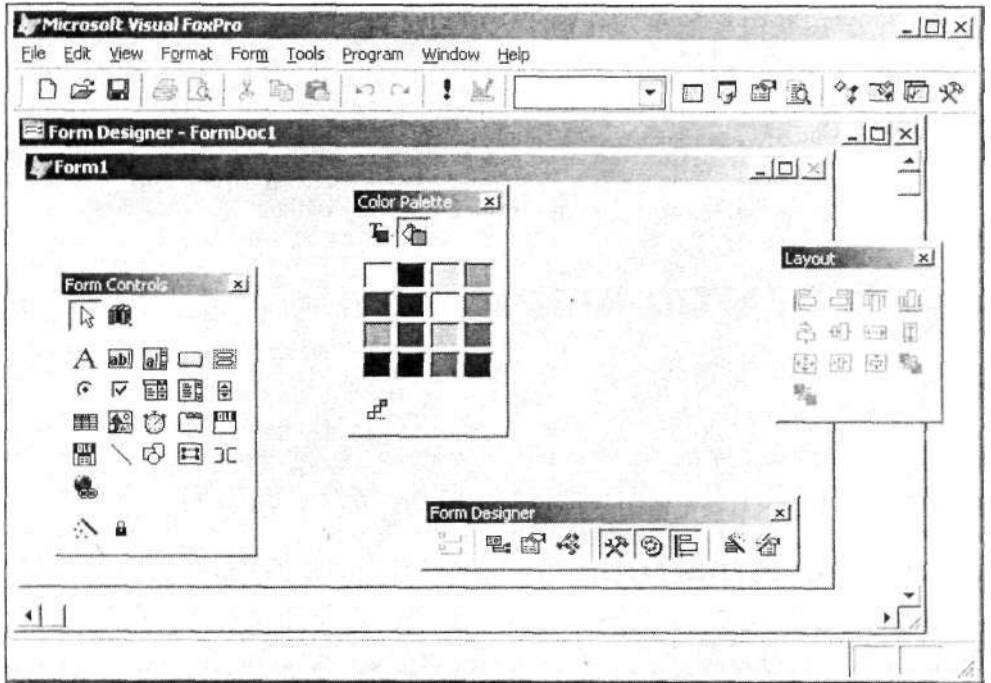
. 5.17.

Tab Order



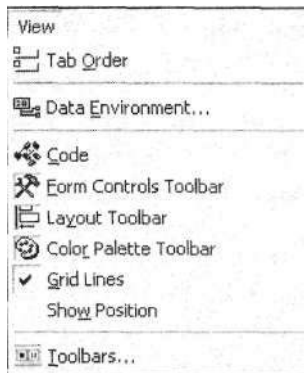
Visual FoxPro

- **New** () **File** ().
New File () **Form** ()
-  **Visual FoxPro. Form**
() **New** ()
New File ().
- **Documents** (), **Forms** ()
New () **New Form**
()
- 6.1
Color Palette (), **Layout** (), **Form De-**
signer () **Form Controls** (),



. 6.1.

() (. 6.2) View
 Toolbars ().



. 6.2.

View










Form Controls () -

. 6.1.

6.1.

Form Controls

**Select Objects**
()**View Classes**
()**Label** ()**Text Box** ()**Edit Box**
()**Command Button**
()**Command Group**
()**Option Group**
()**Check Box** ()**Combo Box**
()**List Box** ()**Spinner** ()**Grid** ()**Image** ()**Timer** ()**Page Frame** ()

	ActiveX Control (OleControl) (OLE)	OLE	
	ActiveX Bound Control (OleBoundControl) (ActiveX)	OLE General	, -
	Line ()		
	Shape ()		
	Container ()		
	Separator ()		-
	HyperLink ()		
	Builder Lock ()		
	Button Lock ()		-

Form Designer ()




Form Controls (),







Color Palette (), **Layout** ().

. 6.2.

6.2.

Form Designer

	Set Tab Order ()		-
	Data Environment ()		
	Properties Window ()		-








	Code Window ()		
	Form Controls Toolbar ()	Form Controls ()	-
	Color Palette Toolbar ()	Color Palette ()	-
	Layout Toolbar ()	Layout ()	-
	Form Builder ()		
	Auto Format ()		

Layout () .

. 6.3.

6.3.

Layout

	Align Left Sides ()		-
	Align Right Sides ()		-
	Align Top Edges ()		
	Align Bottom Edges ()		-
	Align Vertical Centers ()		-
	Align Horizontal Centers ()		-
	Same Width ()		



Same Height
()



Same Size
()



Center Horizontally
()



Center Vertically
()



Bring to Front ()



Send to Back ()

:

- ;
- , -
- ;
- : , ,
- , ;
- .

Properties

(),

Properties ().

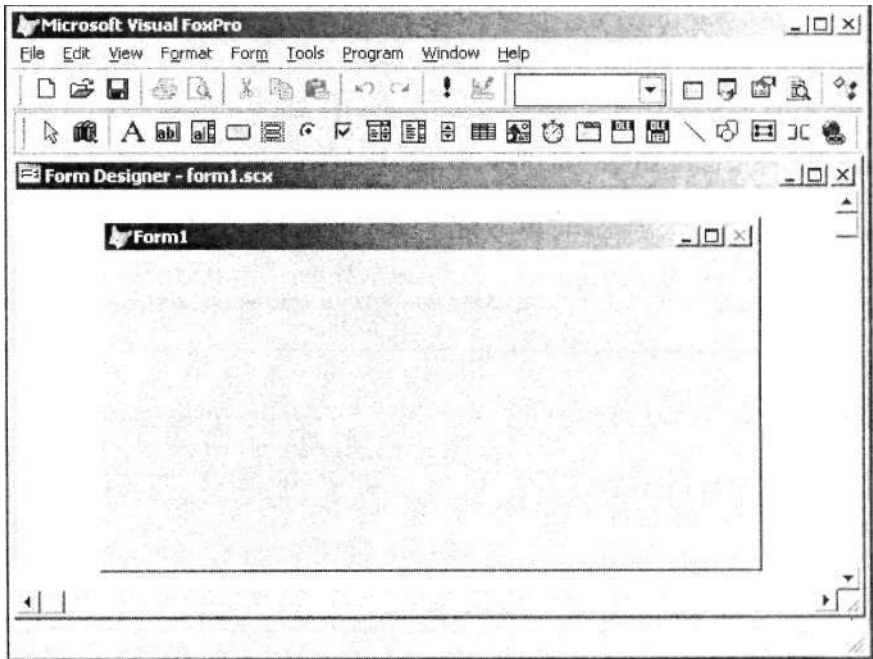
Visual FoxPro.

Left () (),

(. 6.3).

Height (

) width (),



. 6.3.

Visual FoxPro

COBET

Visual FoxPro
AutoCenter ()

True().

Замечание

Visual FoxPro

-
-
-

Environment (),

Data -

- Data Environment () View ();
 - Data Environment () -
- Form Designer ();
- D Data Environment (-
-).

Замечание

Data Environment ()

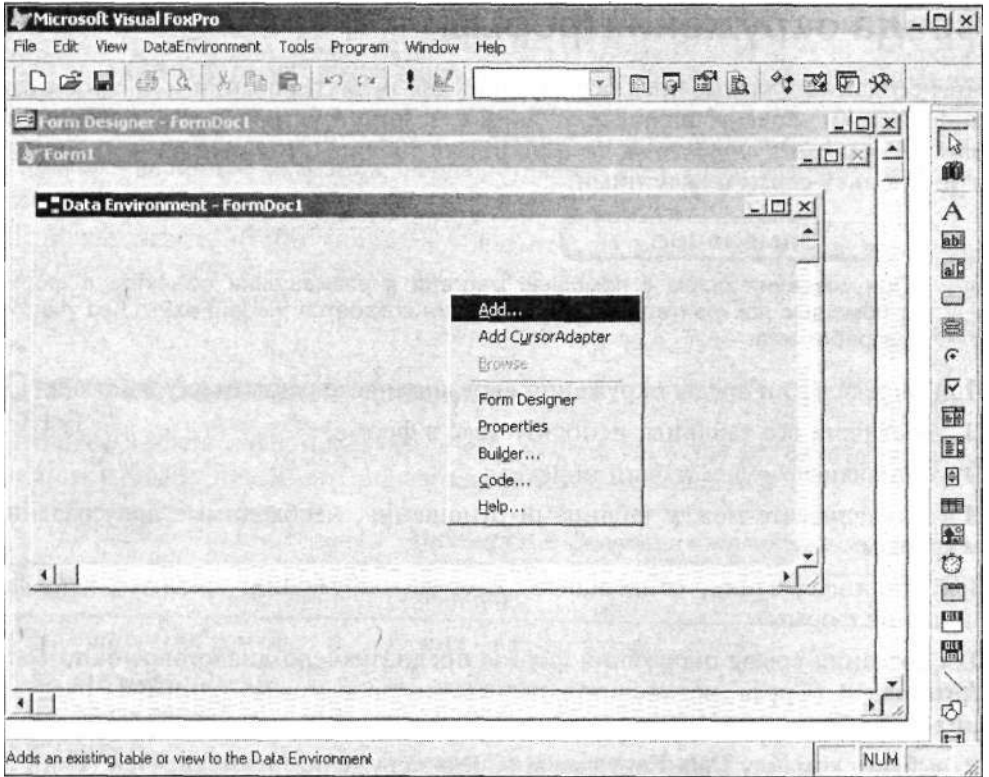
Data Environment ()

DataEnvironment ()

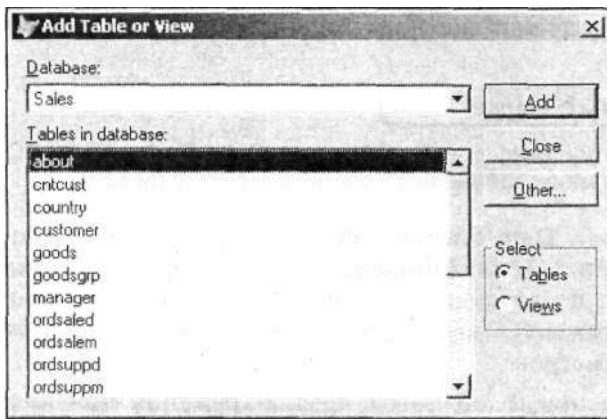
(. 6.4),

Browse (),

- Add ();
 - Add () DataEnvironment (-
-).



. 6.4. Data Environment



. 6.5. Add Table or View

Add Table or View () (. 6.5),

Views ()

Select ()

Other () ,

Open () ,

1.

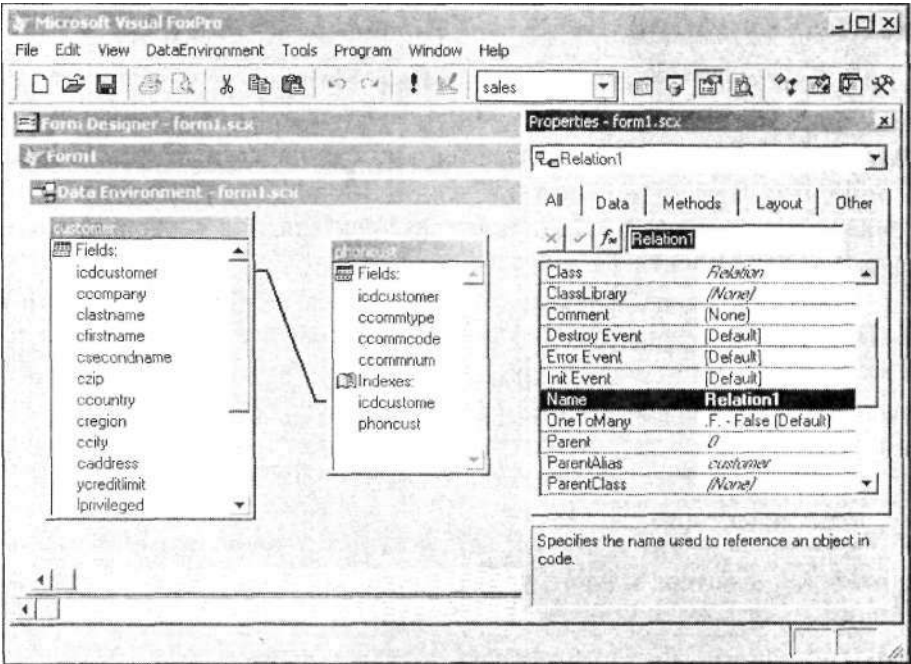
2.

Properties () .

3.

order () .

4.



6.6.

Data Environment

- 1. **Properties** -
- 2. **ChildAliases** (-
- 3. **ParentAlias** () -
- 4. **RelationaiExpr** () -
- 5. **Data Environment** (customer Phoncust -

- Visual FoxPro 8.0 **Data Environment** () -
- **Add CursorAdapter** () — -
- **Builder** () — -
- **Visual FoxPro 8.0** -
- **ODBC**; -
- **ActiveX Data Object (ADO)**; -
- **XML**. -

- 1. **Data Environment** () -
- 2. **Add CursorAdapter** () -

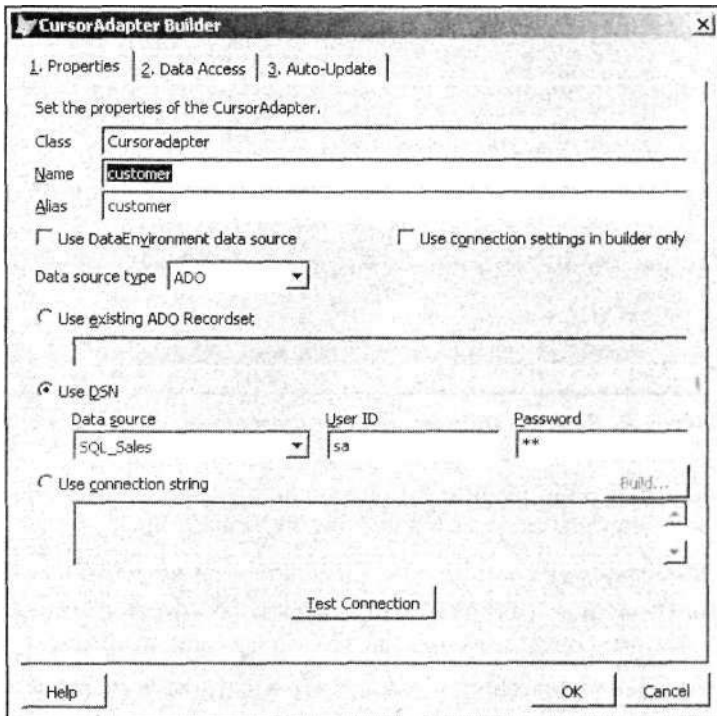
Data Environment ()

Cursoradapteri.

3. **Builder** ().

CursorAdapter Builder ().

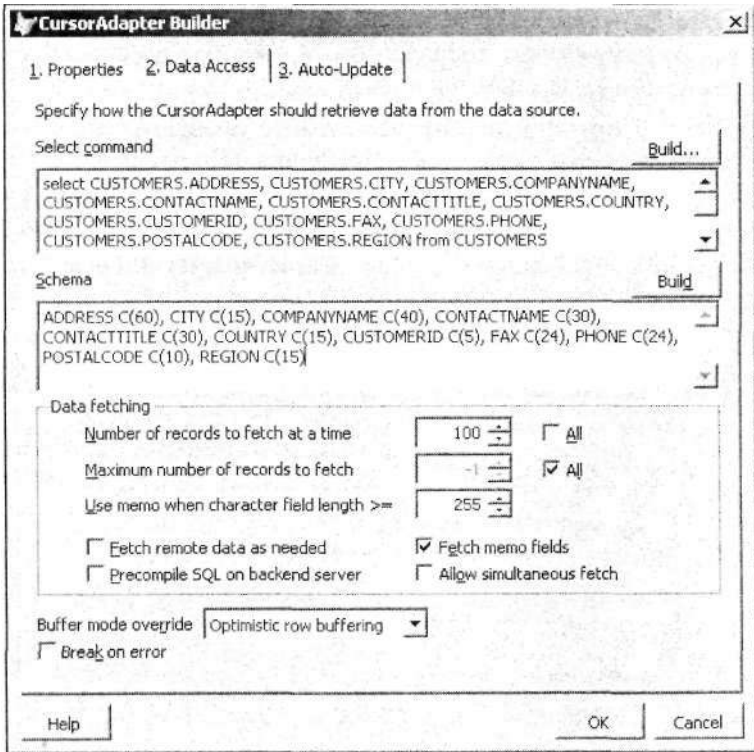
4. (. 6.7), **CursorAdapter Builder** (),



. 6.7. **Properties**

CursorAdapter Builder ()

- **Properties** () — (. 6.7);
- **Data Access** () — **Properties** () **Select** (. 6.8).



. 6.8. Data Access

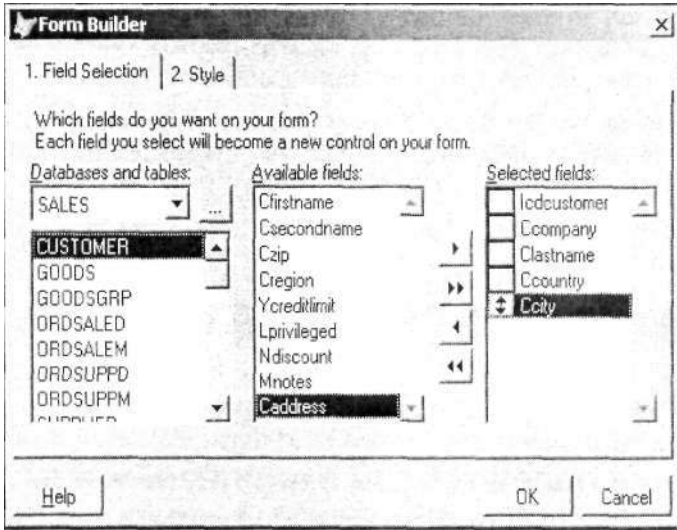
- **Auto Update** () —
- **Properties** :
- **Class** () — CursorAdapter, ;
- **Name** () — ;
- **Alias** () — ;
- **Use DataEnvironment data source** () — ;
- **Use connection settings in builder only** () — ;

D Data source type () —
 , : Native (-
), ADO, ODBC, XML. -
 , Native -
 Database (), ADO ODBC -
 (. 6.7). -
 Data Access () (. 6.8) Select
 command (Select), Build (-
), Select
 Properties ()
 Schema () Build ()
 . 6.9
 ADO.

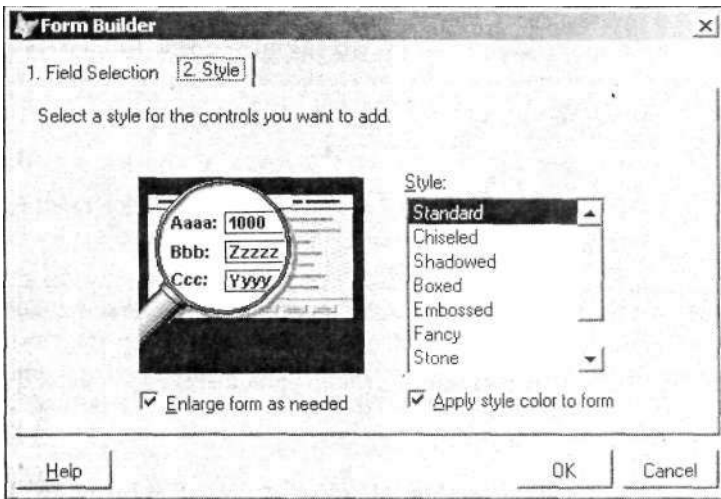
Компания	Страна	Фамилия	Имя	Отчество	Город	Индекс
АО Александр	Россия	Омельченко	Петр	Иванович	Новосибирск	630090
АО Айрис	Украина	Смирнова	Людмила	Михайловна	Одесса	270005
ТОО Интерком	Украина	Иванов	Юрий	Анатольевич	Одесса	270029
Банк Программ	Россия	Ивлев	Михаил	Николаевич	Новгород	173024
ТОО ЭЛСОВ	Россия	Абрамов	Филипп	Петрович	Новгород	173003
АО Интерпрайзис	Украина	Филиппов	Михаил	Николаевич	Новгород	173003
СП Людмила	Россия	Иващенко	Людмила	Петровна	Свердловск	346415
ТОО Арком	Россия	Мельников	Андрей	Анатольевич	Н-Новгород	603006
СП Сервис-плюс	Россия	Николаев	Филипп	Петрович	Новосибирск	630056
ТОО Стингер	Россия	Никифоров	Андрей	Анатольевич	Кисловодск	357736
АО Компонент	Россия	Кукушкина	Дарья	Ивановна	Москва	142490
АО Микрон	Россия	Афанасьев	Виктор	Михайлович	Жуковский	140160
АО Микронсервис	Россия	Нуралиев	Сергей	Иванович	Черноголовка	142432
Офис-Сервис	Россия	Смирницкий	Максим	Сергеевич	Кировск	184230
АО РосКом	Россия	Сменов	Андрей	Михайлович	Свердловск	620151
АО Фантом	Россия	Райский	Максим	Сергеевич	Самара	443115
АО Интерсервис	Россия	Антонов	Юрий	Юрьевич	Москва	125167
АО Интерсервис-Плюс	Россия	Сухариков	Андрей	Петрович	Москва	117334
АО Интерплюс	Россия	Проховщиков	Александр	Иванович	Рига	226010
ТОО Сергей	Украина	Казанский	Сергей	Иванович	Киев	252208
АО Опци Москвы	Россия	Германский	Анатолий	Васильевич	Самара	443115
ТОО Владлен	Украина	Сухорученко	Владимир	Иванович	Алушта	252096
АО Юпитер	Беларусь	Ивлев	Иван	Петрович	Минск	220045
Офис-Сервис	Украина	Луначарский	Юрий	Степанович	Львов	290052
Офис-Сервис	Россия	Арзамасцев	Филипп	Петрович	Самара	443080

Customer (Sales/Client) Record: 1/32 Exclusive NUM

- 1. Sales.
- 2. **Documents** (),
Forms () **New** ().
- 3. **New Form** () -
New Form ().
- 4. **Data Environment** (),
Data Environment () **View**
().
- 5. **Add** (-
) **DataEnvironment** ().
- 6. **Add Table or View** (
)
- 7. **Properties** ().
- 8. order ().
- 9.
- 10. **Properties** -
(). **Properties** -
, **Form1** (1). -
- 11. **Properties** () caption (-
)
- 12. **BackCoior** (). -



. 6.10.



. 6.11.

Style (), Style ().

(. 6.12).

The screenshot shows a Windows form titled "Form1" with the following fields and labels:

- lccustomer: [OMER1]
- Company: [CCOMPANY1]
- Clastname: [CLASTNAME1]
- Cfirstname: [CFIRSTNAME1]
- Csecondname: [CSECONDNAME1]
- Czip: [CZIP1]
- Ccountry: [CCOUNTRY1]
- Cregion: [CREGION1]
- Ccity: [CCITY1]
- Caddress: [CADDRESS1]
- Ycreditlimit: [YCREDITLIMIT1]
- Lprivileged: []
- Ndiscount: [NCOUNT1]
- Mnotes: [MNOTES1]

. 6.12.

Замечание

General.

Замечание

(, Label () **A**,
Form Controls ()
).

1. Label () Form Controls
()
View () Form
Controls Toolbar ()

2.

Label 1.

3.

Properties ().

Properties ().

4.

BackColor ().

BackColor () Transparent (

).

5.

caption ().

<Enter>.

6.

FontName ()

FontSize ()

7.

ForeColor (),

8.

() AutoSize ().

True

1.

Text Box () 

Form Controls ().

2.

3.

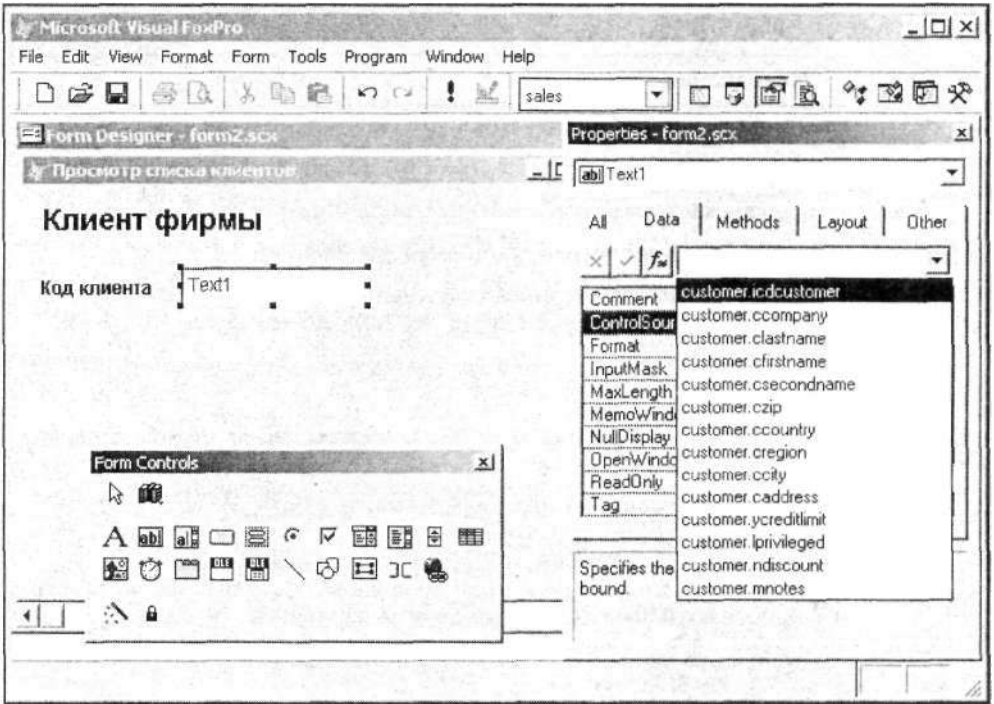
4.

Data () controlSource ().

(.6.13).

5.

Alignment (),



. 6.13.

6. BorderStyle () BorderColor () .
7. DisabledBackColor ()
8. Comment (), -
9. FontName () FontSize (-
) ,
10. ForeColor () ,
11. Format () .

. 6.7.

6.7.

!			
\$			
^			
D	SET DATE (, BRITISH, GERMAN . .)	
		,	(BRITISH)
		,	
L			
R		.	-
		,	
YS		,	Windows
YL		,	Windows
Z	0	,	-

12. InputMask () . 6.8.

6.8. InputMask

!			
#		,	
\$	SET CURRENCY).	(-
		.	-
	(SET CURRENCY),	(SET POINT)	(SET
	SEPARATOR)		-
\$\$,	-

9

L True () False () , Y, t, n, N, f, F

N

X

Y () False () , Y n, N True

*

\$

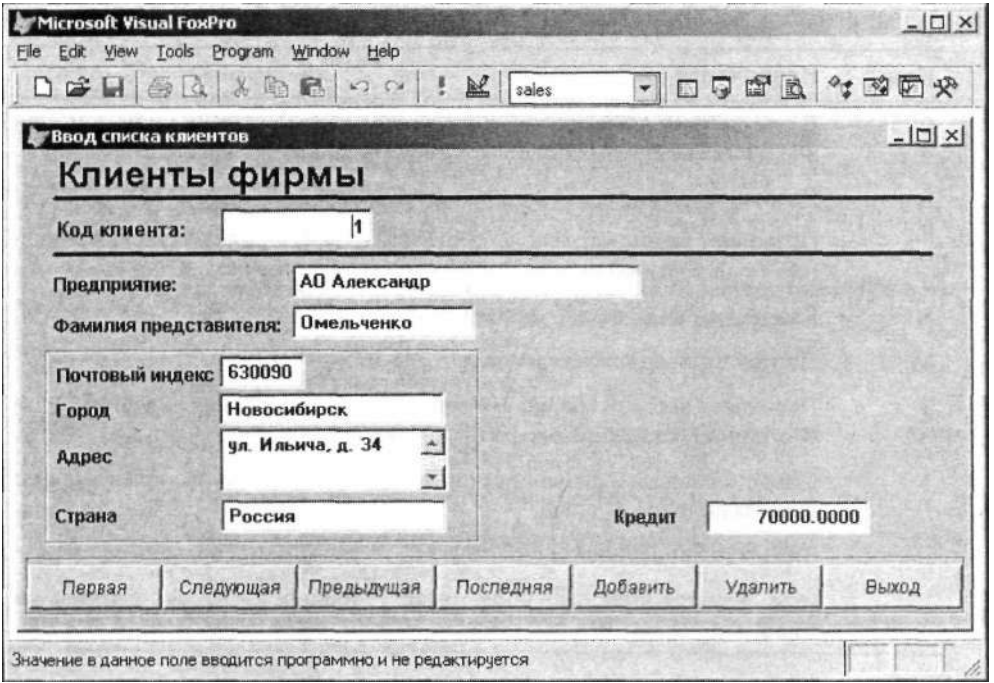
13. () , True (). Readonly

14. SpecialEffect (), : , -

15. StatusBarText (). 6.14

16. Visual FoxPro ToolTipText () ShowTips () True ().



17. value ().



. 6.14.



StatusBarText

Visual FoxPro

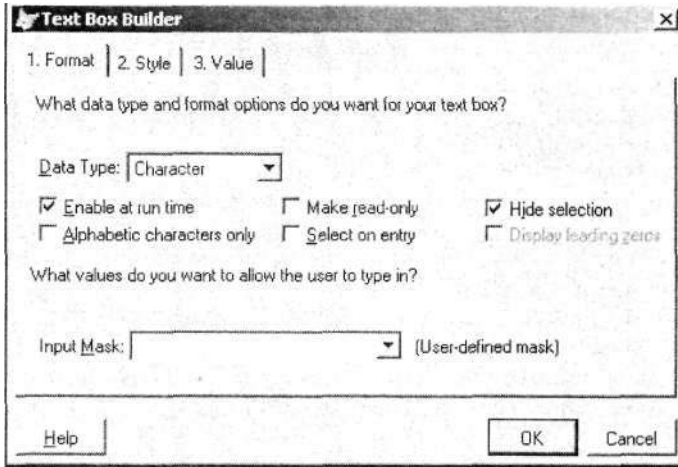
1. **Text Box** ()
Form Controls ().

2.

3.

Builder ().
Text Box Builder () (. 6.15),

Format (), Style () Value ().



. 6.15. Format

Замечание

4. Format () Data Type
(), . 6.9.

6.9.

Format

Enable at run time ()

Enabled ()

Alphabetic characters only
()

Format ()

Make read only ()

Select on entry ()

6.9 ()

Hide selection () (), HideSelection -

Display leading zeros ()

5. Style () (. 6.16), Format (), (. 6.10).

6.10.

Style

Special effect () Plain (). 3D () 3D () SpecialEffect ()

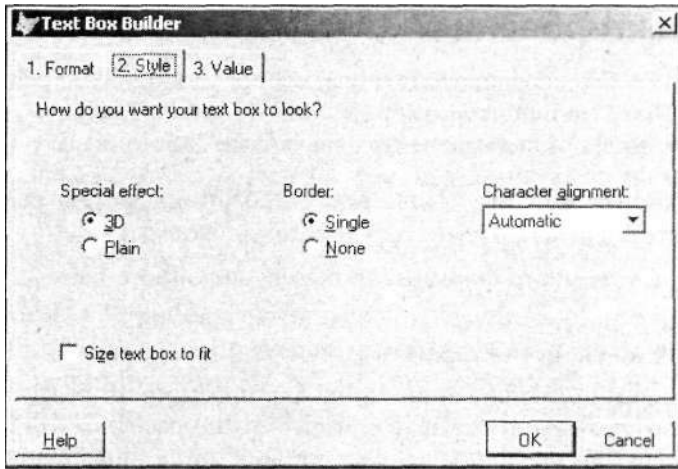
Border () : **Single** **None.** BorderStyle ()

Character alignment () Alignment ()

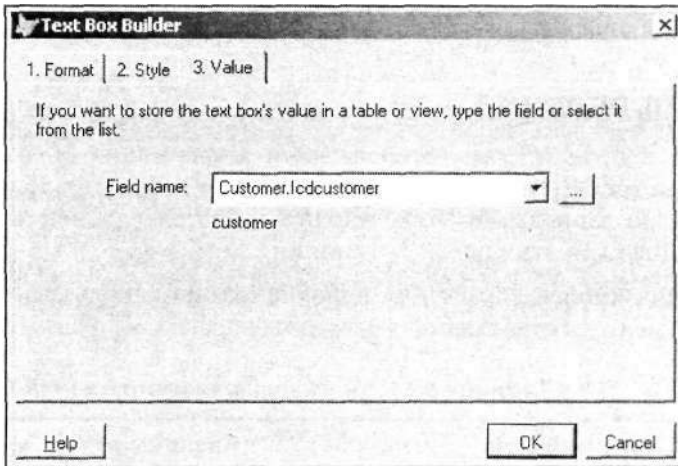
Size text box to fit ()

6. () (. 6.17). Value Field name ()

7. ,



. 6.16. ,



. 6.17.

COBET

) **Builder Lock** (**Form Controls** ()).

Edit Box ()
Memo

1. **Edit Box** ()  -
Form Controls ().

2. , -

3. **Properties** () .

4. -

,
 ,
() **Vertical** () **ScrollBars**
None () .

Visual FoxPro

Form Controls () (. 6.11).

6.11.

Form Controls

	<p>Command Button ()</p> <p>Command Group ()</p>
--	--

1. **Command Button** ()
Form Controls ()

2.

3.

caption

(),

4.

picture.

Open ()

(. 6.18),

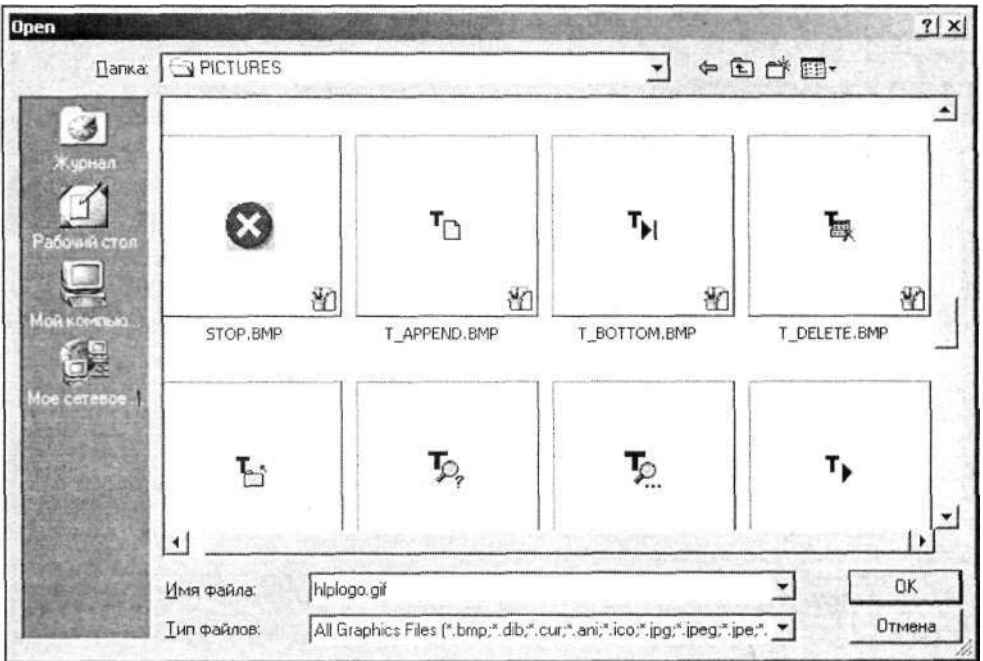
Замечание

Visual FoxPro

Open

().

Open ()



. 6.18.

Open,

5. click (),

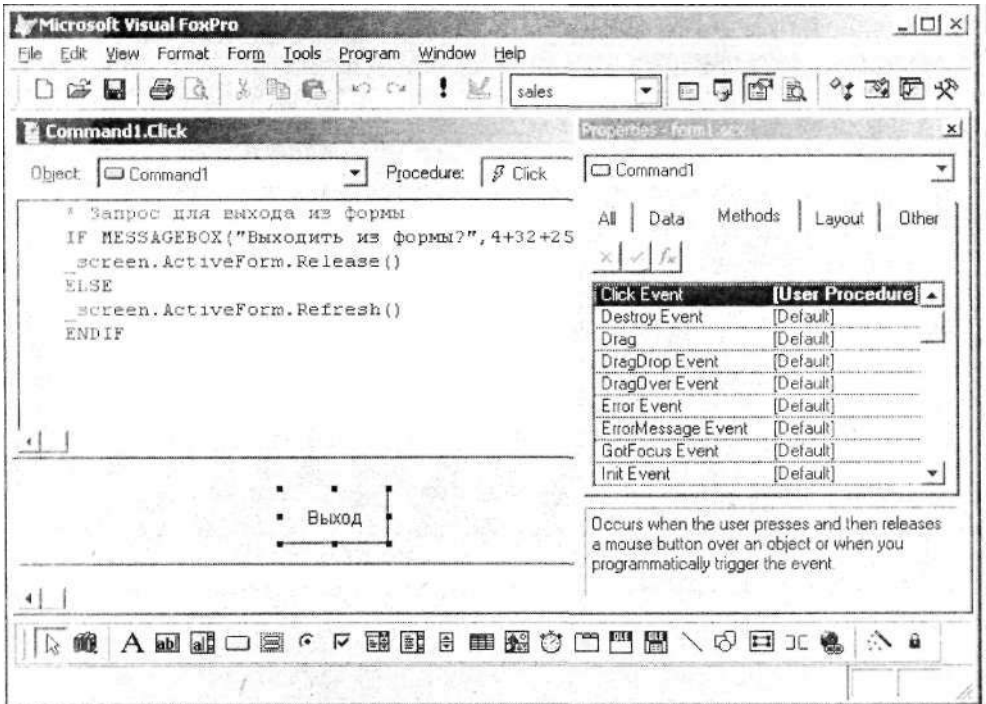
Properties () **Methods ()**.

6. click ()
(. 6.19).

7. MESSAGEBOX():

```
*
IF MESSAGEBOX(" ", 4+32+256, " ")=6
_screen.ActiveForm.Release()
ELSE
_screen.ActiveForm.Refresh()
ENDIF
```

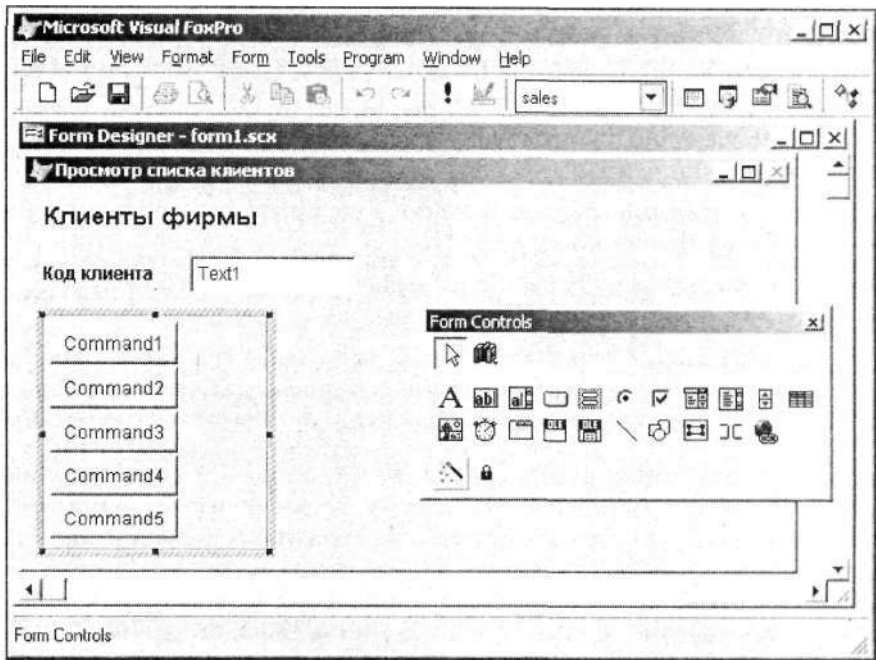
8.



OptionGroup (Visual FoxPro, CommandGroup ())

Visual FoxPro Edit ()

(.6.20).



. 6.20. CommandGroup

Form Controls (Command Group ())

```

), ButtonCount (

```

```

1. Command Group (
Form Controls (
)
)

```

```

2.

```

```

3. ButtonCount (
, ( 2).
5.

```

```

4.
,

```

```

5.
,
Edit (
).

```

```

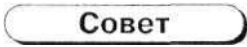
6.
,

```

```

7. CommandGroup (
).
8.
,

```



```

AutoSize (
) True (
).

```

```

9. CommandGroup (
).
( . 6.21).
,

```

```

Command1, Command2, Command3, Command4, Command5.

```

```

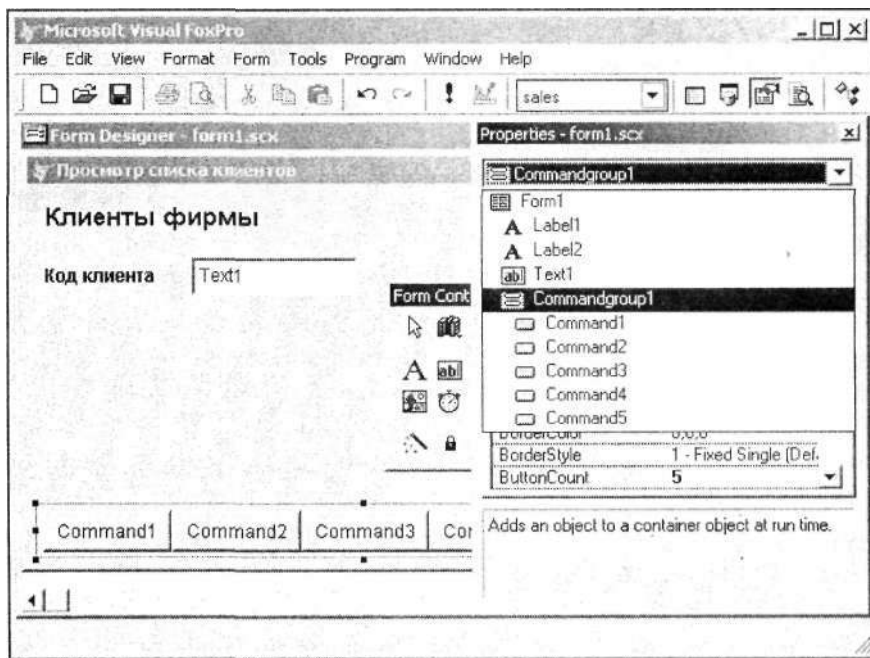
10. caption (
)
:
,

```

```

11. BackColor (
) CommandGroup (
).
BackStyle (
) Transparent (
).

```



. 6.21.

CommandGroup

12.

```

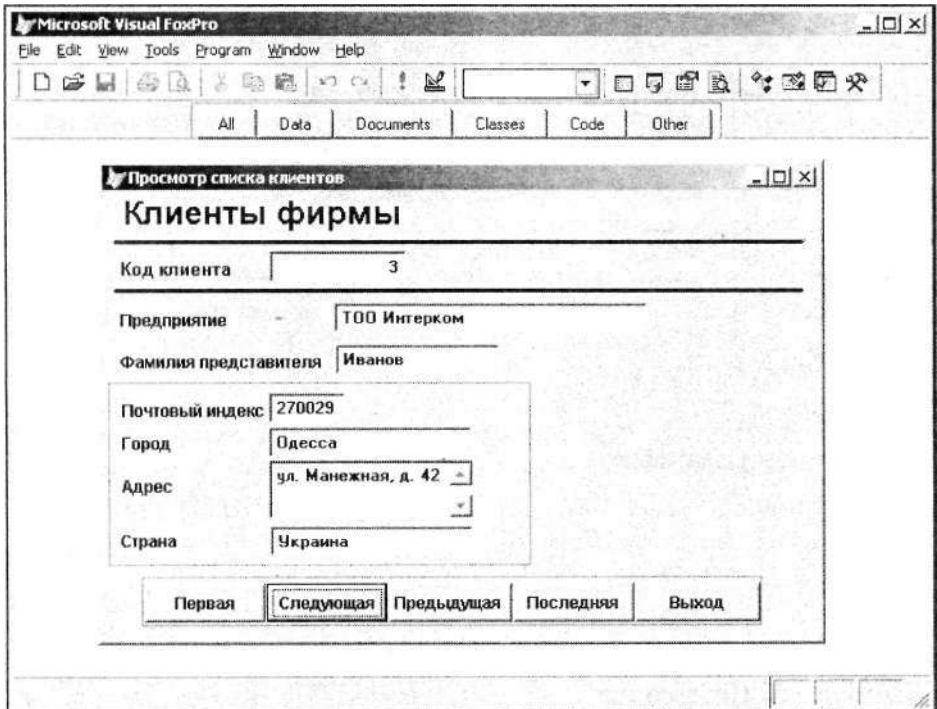
click ( )
:
*
IF !BOF()
    GO TOP
ENDIF
_screen.ActiveForm.Refresh()
:
*
IF !EOF()
    SKIP
ENDIF
_screen.ActiveForm.Refresh()
:
*

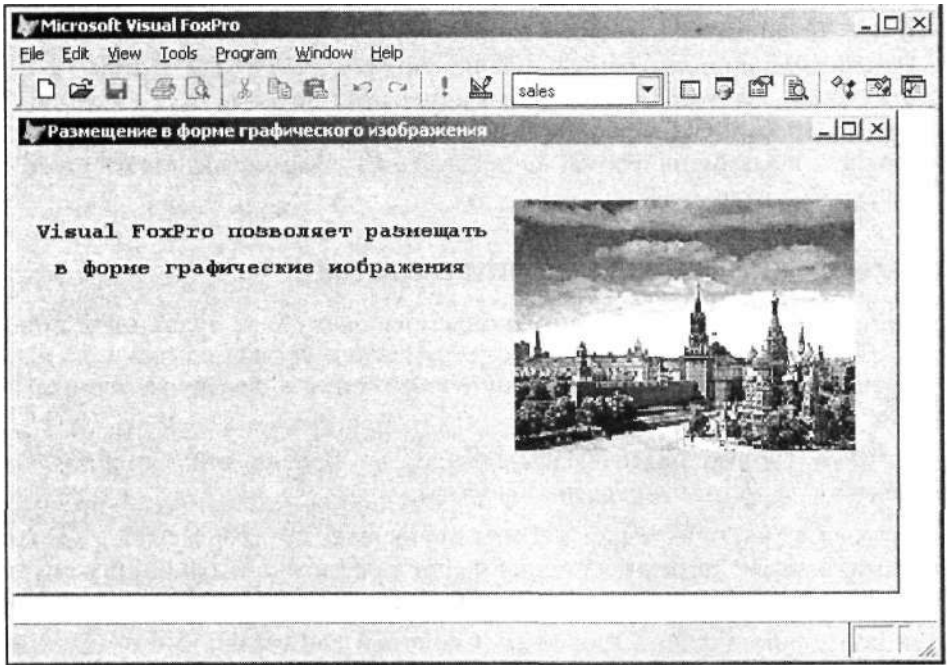
```

```

IF !BOF()
    SKIP 1
ENDIF
_screen.ActiveForm.Refresh))
:
*
, IF !EOF()
    GO BOTTOM
ENDIF
_screen.ActiveForm.Refresh()
:
*
IF MESSAGEBOX("                ? ",4+32+256, "                ")=6
_screen.ActiveForm.Release()
ELSE
_screen.ActiveForm.Refresh()
ENDIF

```





. 6.23.

General

General ()

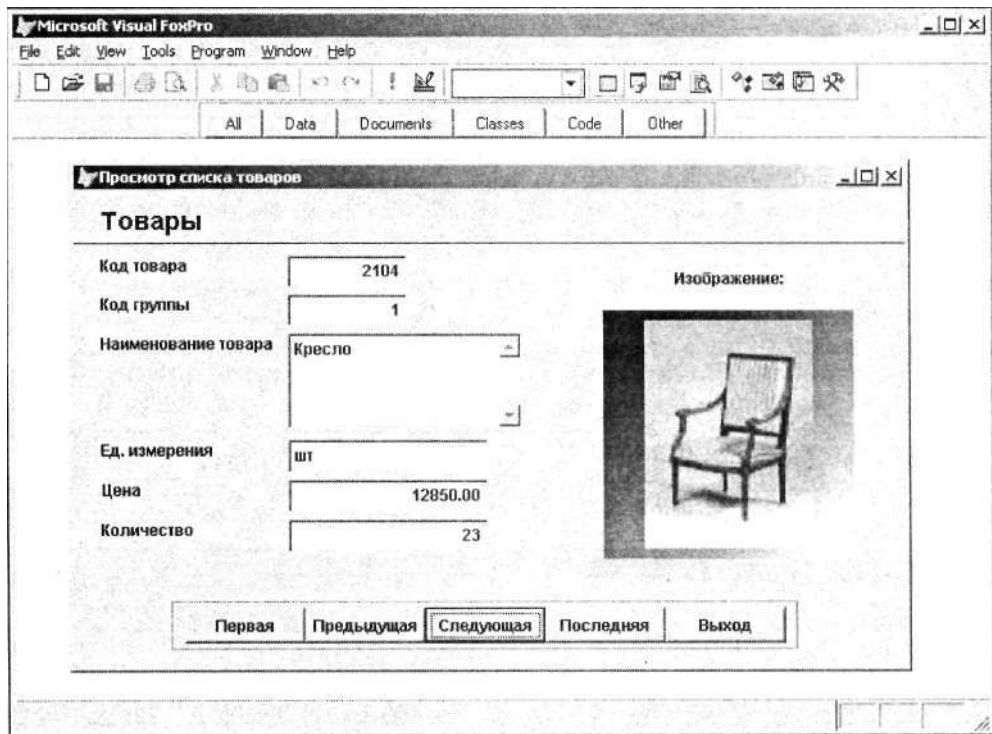
Goods,

Sales.

1. **ActiveX Bound Control** (ActivX Form Controls () General () -)
2. **ControiSource** () Goods General () -
3. **gImage** () Goods General () -
5. **Run Form** () Form

General ()

. 6.24.



. 6.24.

General

CheckBox (), -

— 0 (. 6.12).

1,

6.12.

value

CheckBox

Value

<input type="checkbox"/>	0
<input checked="" type="checkbox"/>	1

Logical () 0 1.

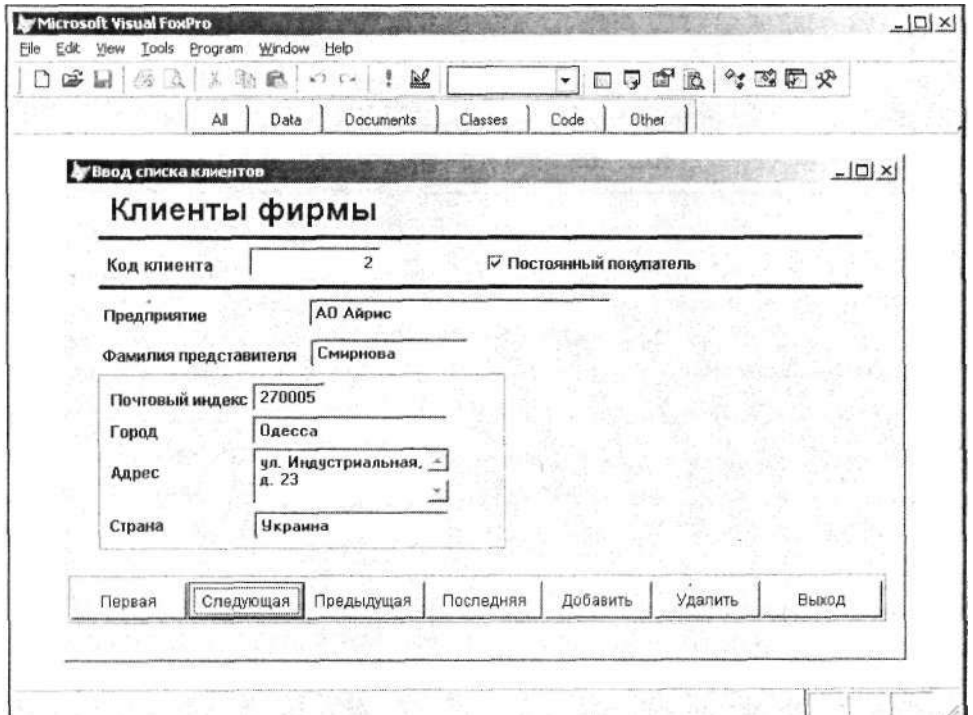
1.

2.

Controls (Check Box ()).

Form

3.



6.25.

CheckBox

4. **Properties** () Che B
().

5. ControlSource (),
Logical () Customer.

6. caption () -

7. (. 6.25). -

Замечание

ForeColor (), BackStyle () FontName () -

OptionGroup () ,

Visual FoxPro,
Windows. OptionGroup () -

. 6.13.

6.13.

OptionGroup


ButtonCount ()

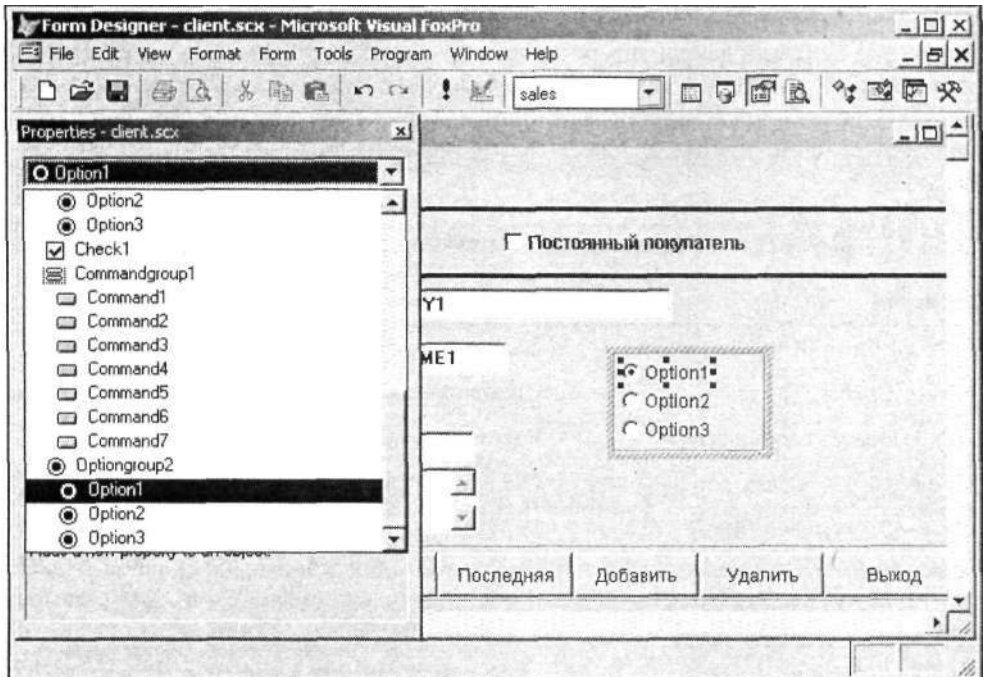
Style ()

Left (), ()

BorderStyle ()

1.

2. **Option Group** () -
Form Controls ().
3. ,
4. **Properties** () .
5. ButtonCount (). -
, 3.
6. , -
ControiSource () .
7. **Properties** ()
Option (1). -
. 6.26 ,
8. Option1 (1) Caption
(),



9. Option1 (1) ForeColor
(), BackColor (), FontName ()

10.

11. Label () Form
Controls (),

12.

. 6.27

С

Microsoft Visual FoxPro

File Edit View Tools Program Window Help

sales

Ввод списка клиентов

Клиенты фирмы

Код клиента Постоянный покупатель

Предприятие

Фамилия представителя

Почтовый индекс Страна

Город Россия

Адрес Украина

Беларусь

Первая

Customer: Record No. 2

. 6.27.

Замечание

6.15.

ListBox,

ColumnCount

()

FirstElement

()

NumberOfElements

()

RowSource

()

Customer,

1.

city,

NmCity,

2.

3.

Data Environment ()

).

View ()

()

Add Table or View ()

city.

4.

5.

List Box ()

**Controls** ()

).

Form

6.

7.

Properties ()

8.

ControlSource ()

).

customer,

9.

RowSourceType ()

),

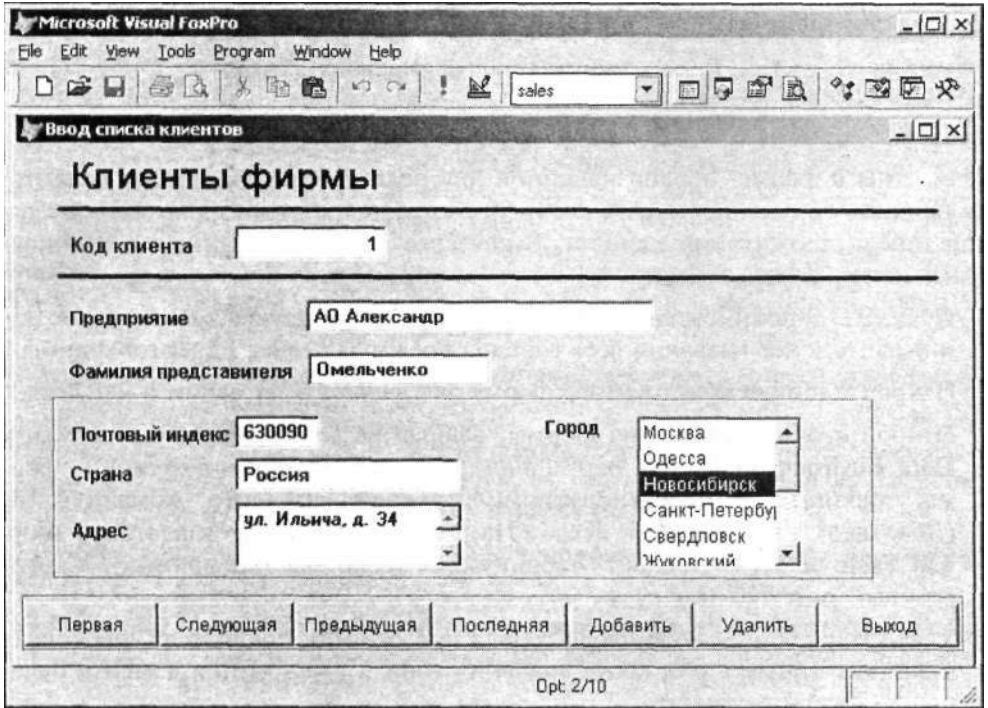
Fields

(),
City.

NmCity

10. RowSource (),
City.Nmcity.

11. cCity Customer
(. 6.28).





. 6.28.

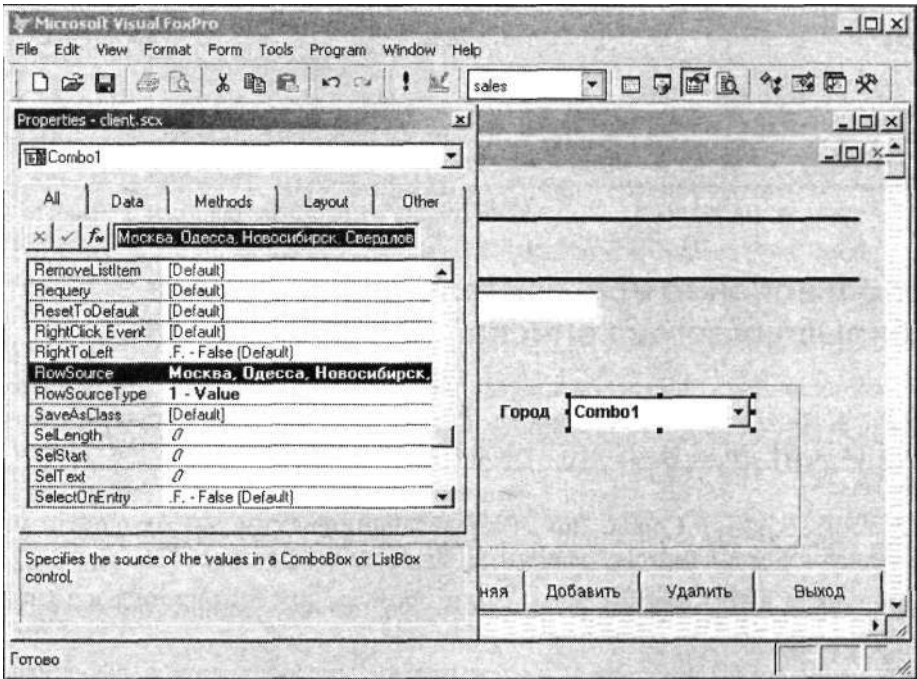
Visual FoxPro

ComboBox (

)

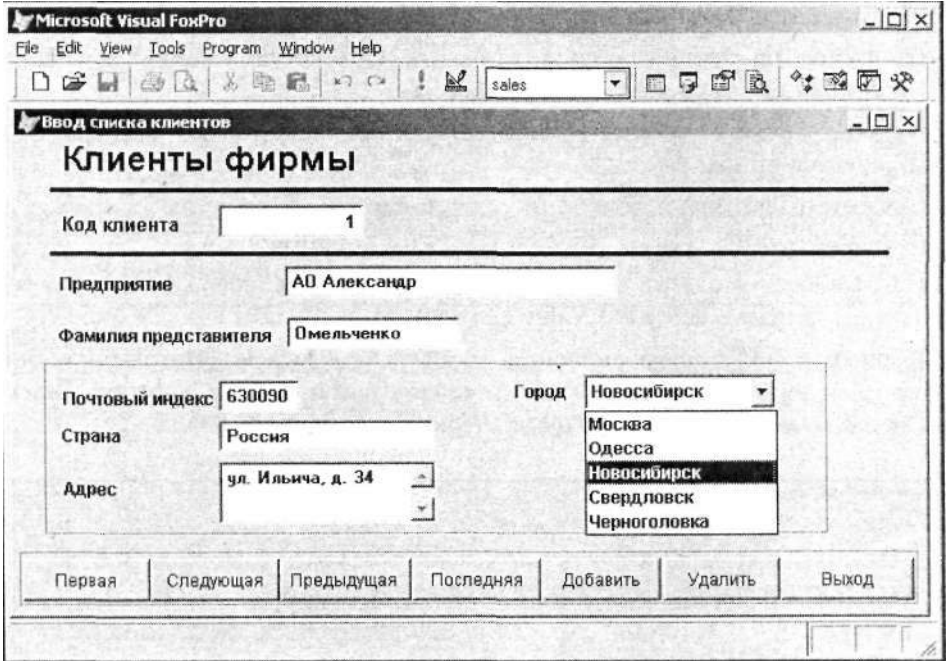
customer.

- 1.
- 2.
3. **Combo Box** ()
4. **Form Controls** (). mb B (-)
5. **Properties** () -
6. cCity customer, -
7. ControlSource (). RowSourceType ()
8. Value (). RowSource (:) (. 6.29).



. 6.29.

9. Customer
 ,
 -
 -
 -
 cCity
 (. 6.30).



. 6.30.

ComboBox ()

1. Combo Box ()
 Form Controls ().

2.

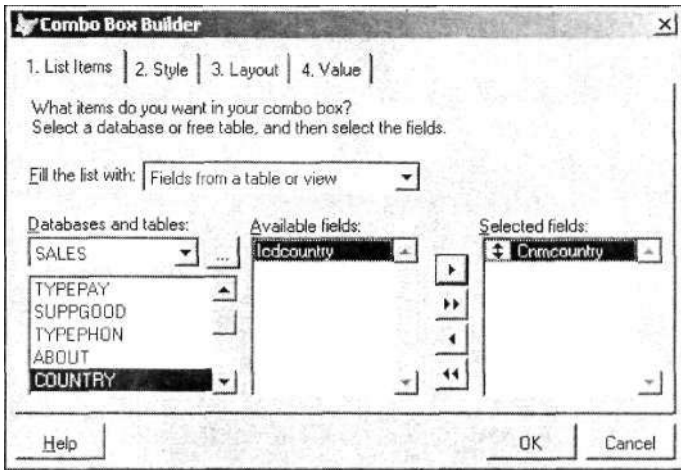
3.

Builder ()

Combo Box Builder ()
(. 6.31), List Items (), Style
(), Layout () Value (),

COBET

ComboBox ()
Form Controls (),
) Builder Lock () —
Combo Box ().



. 6.31. List Items ComboBox

Combo Box Builder (-
) . List Items ()
Fill the list with (), -
. 6.16.

6.16. Fill the list with

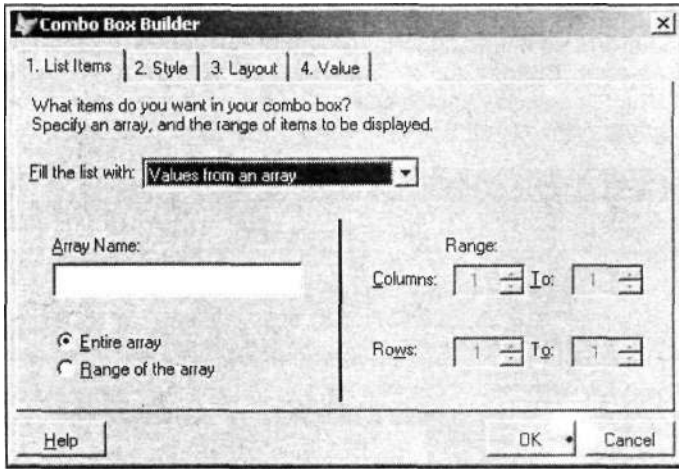
-
- Fields from a table or view (,)
 - Data entered by hand (,) -
 - Values from an array (,) -
-

Fields from a table or view (

Databases and tables (

Available fields

Selected fields (



. 6.32.

List Items

Values from an array

Fill the list with (

List Items (

. 6.32

List Items (

Style (

Comb (

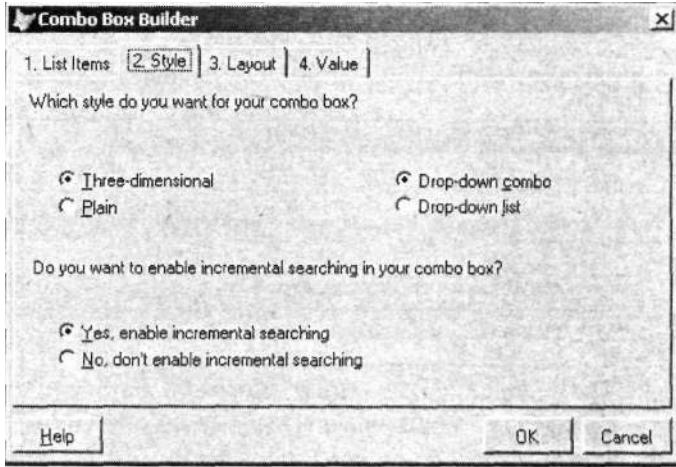
Three dimensional (

Plain (

SpecialEffect (

- Drop down combo —

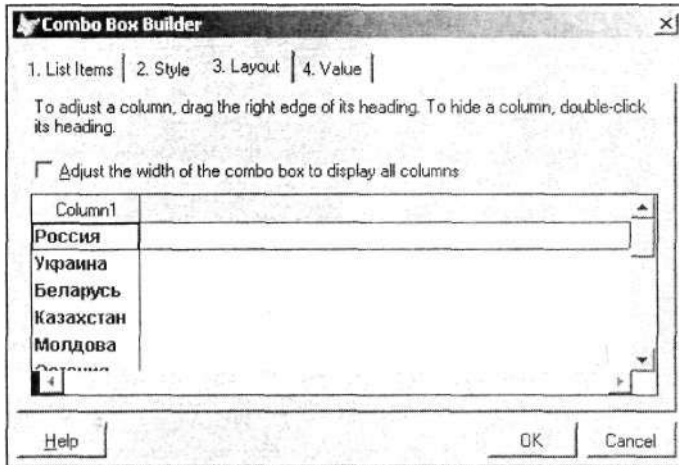
- Drop down list —



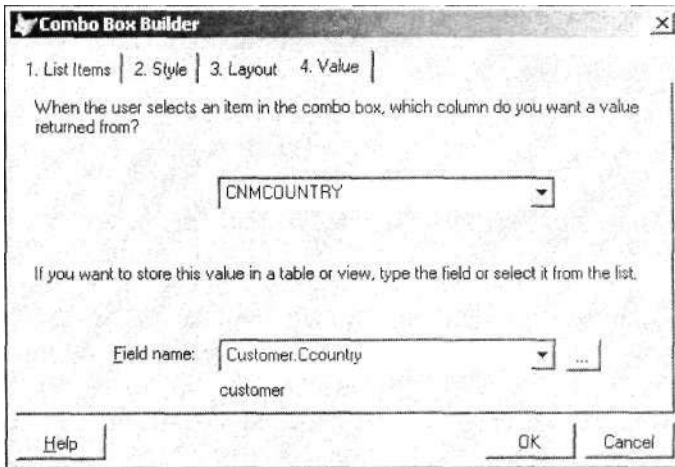
. 6.33. Style

- **Yes, enable incremental searching** (`IncrementalSearch = True`) —
 - **No, don't enable incremental searching** (`IncrementalSearch = False`) —
- Layout** (`Layout`) (. 6.34). **Adjust the width of the**
combo box to display all columns (`AdjustColumnWidths = True`)
ComboBox (`ComboBox`). **width** (`Width`)
- ColumnWidths** (`ColumnWidths`).
- Value** (`Value`) (. 6.35) **ControlSource** (`ControlSource`)
- ComboBox** (`ComboBox`),

()




. 6.34. Layout







. 6.35. Value

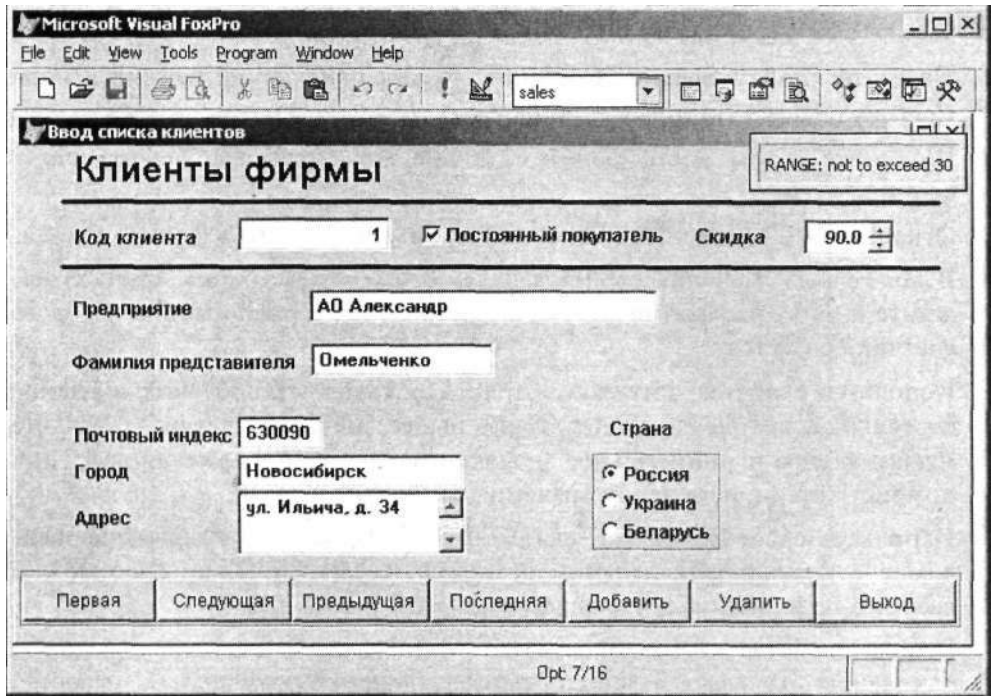
spinner,

1. **Spinner** () **Form**
Controls ().
- 2.
3. **Properties** () .
4. **ControiSource** () -
5. **SpinnerHighValue** ()
) **SpinnerLowValue** (),
6. **KeyboardHighvalue** () , -
7. **KeyboardLowvalue** () ,

Замечание

- KeyboardHighvalue** **KeyboardLowValue** , -
8. **increment** () , -
 - 9.
 - 10.
 11.   ,   , -

. 6.36 , -



. 6.36. ,

Visual FoxPro , , -

, , ,

, .

, .


, .

, .

, .

, .

, .

1. **Line** () **Form**
Controls ().

2. , ,


3. **BorderWidth** (), -

4. Height (). width ().
5. BorderColor ().
6. BorderStyle (), . 6.17.

6.17.

BorderStyle

-
- 0 Transparent ()
- 1 Solid (Default)
- 2 Dash
- 3 Dot
- 4 Dash Dot
- 5 Dash Dot Dot
- 6 Inside Solid
-

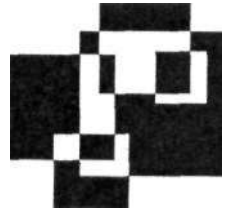
1. Controls (Shape () Form).
2. , ,
3. , Curvature (), 1 99.
4. BackStyle (), , -
5. FillStyle () - (. 6.18).

6.18.

FillStyle

-
- 0 Solid**
 - 1 Transparent (Default)**
 - 2 Horizontal Line**
 - 3 Vertical Line**
 - 4 Upward Diagonal**
 - 5 Downward Diagonal**
 - 6 Cross**
 - 7 Diagonal Cross**
-

6. `FillColor ()`, -
7. `BorderStyle ()`,
8. `SpecialEffect ()`.



FoxPro,

Visual

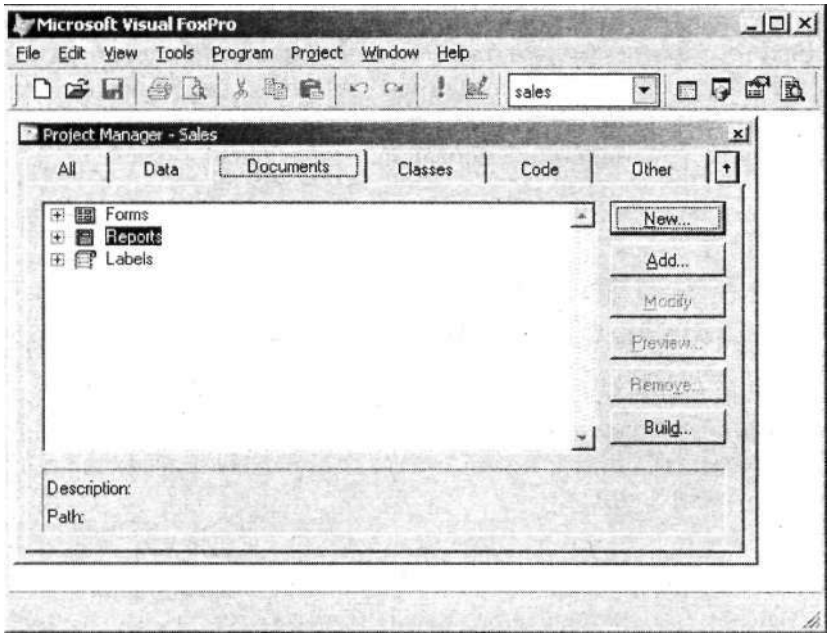
Visual FoxPro.

Visual FoxPro,

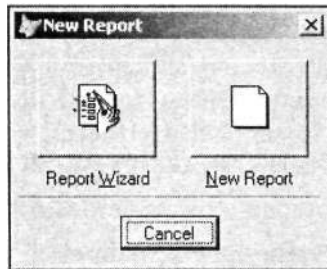
Visual FoxPro

Visual FoxPro,

- **Tools** (), **Wizards** (),
Report ();
 - **Report Wizard** () **New**
Report ();
 - Wizard** () **New** (), -
New () -
New () **File** () -
Report ().
1. , sales.
 2. **Data** ()
Open () -
Databases ()
 3. **Documents** () **Reports**
().
 4. **New** () (. 7.1).
 5. **New Report** () (. 7.2) -
Report Wizard ().



. 7.1. Reports



. 7.2. New Report

6.

(. 7.3),
(. 7.1).

7.1.

One to Many Report Wizard () " "

Report Wizard ()

Wizard

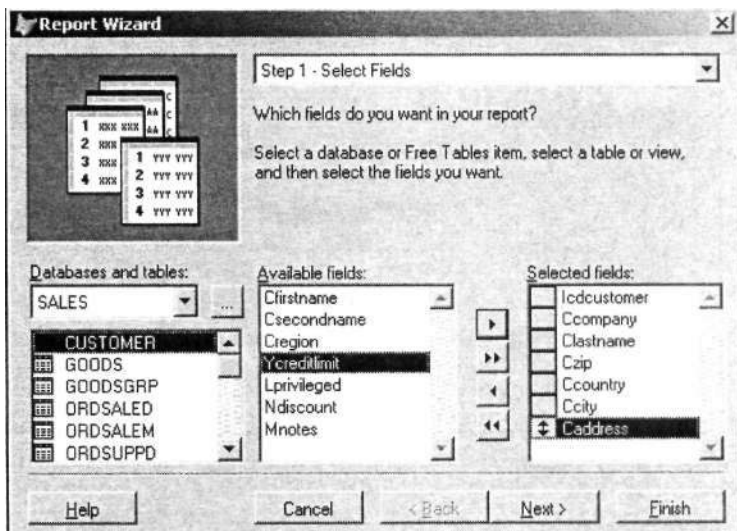


. 7.3.

7.

(. 7.4),

Databases and tables (



. 7.4.

and tables ()

Databases

Open (),

8. fields ()

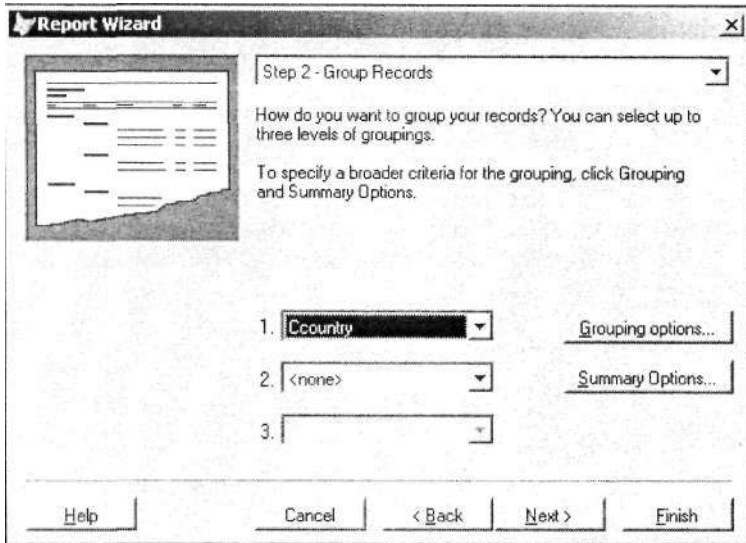
Available

Selected fields

()

Next ()

9. (. 7.5).



. 7.5.

10. 1. -
 2 3. , ,
 Grouping options
 Grouping Intervals
 Grouping
 intervals () (. 7.6).
 () (. 7.2).

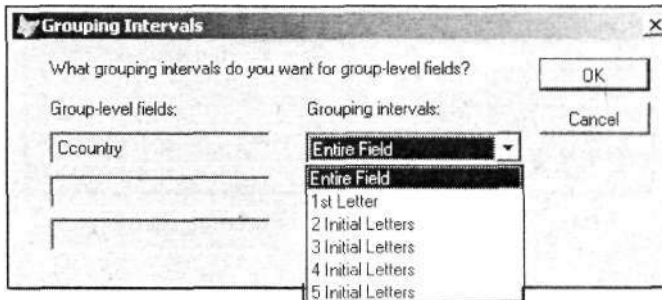
7.2.

Grouping intervals

Entire Field () -

1st Letter (1)

2, 3, 4, 5 Initial Letters 2, 3, 4 5
 (2, 3, 4, 5) -



. 7.6.

Grouping Intervals

11. Summary Options () (. 7.7),
 Summary Options ().
 (. 7.3).

7.3.

Field

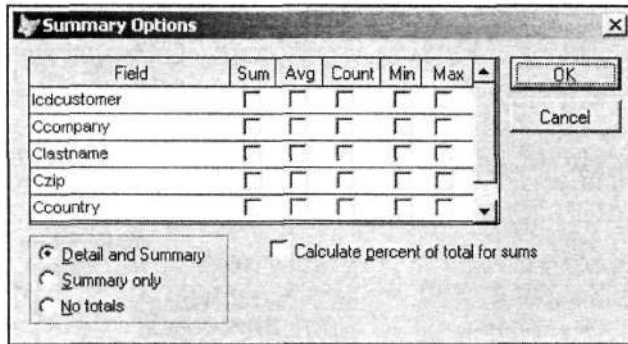
Sum

Avg

Count

Min

Max



. 7.7.

Summary Options

Summary Options ()

(. 7.4).

7.4.

Summary Options

Detail and Summary

()

7.4 ()

Summary only (-)

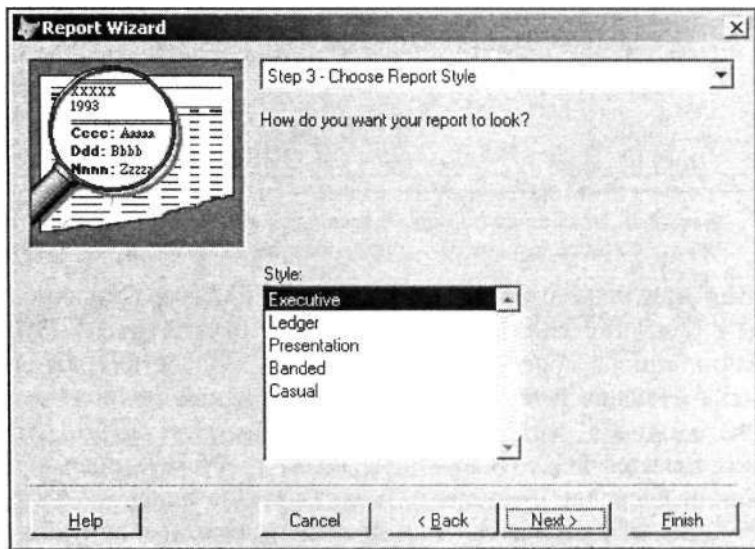
No totals ()

Summary Options (Calculate percent of total for sums (),

Summary Options ()

12.

(. 7.8).



. 7.8.

Style () (, , . .)

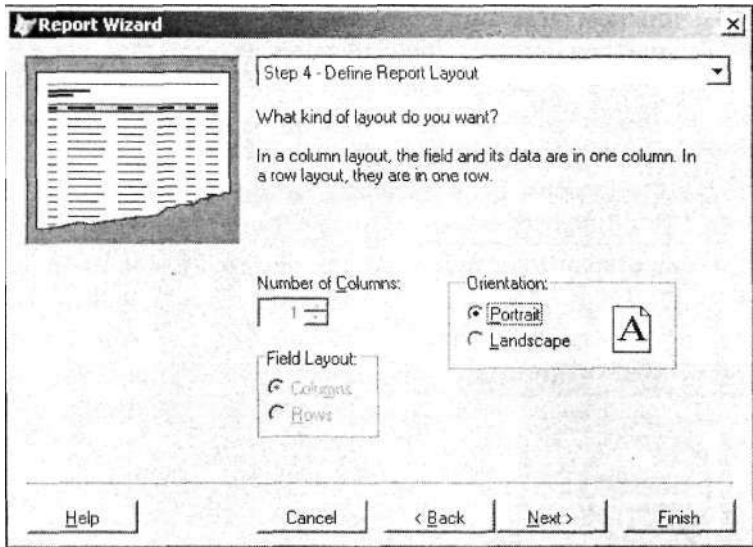
Next (),

13.

(. 7.9)

Next

().



. 7.9.

14.

(. 7.10).

Available fields or index tag (),

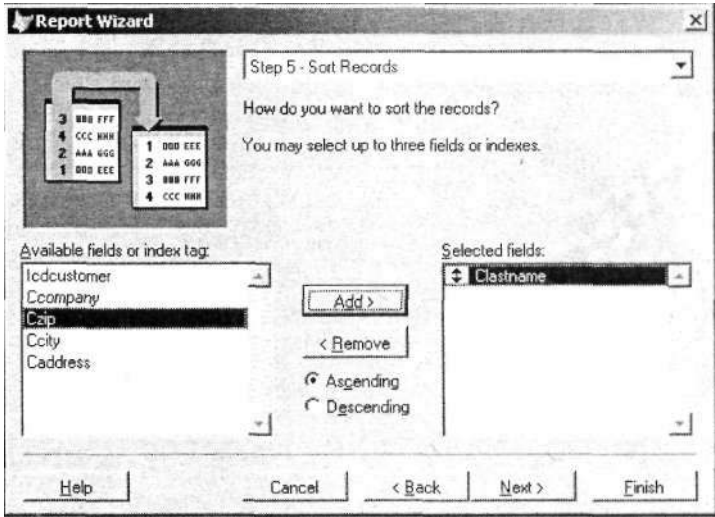
Selected fields ()

Add ()

Ascending () Descending ()

),

Next ()



. 7.10.

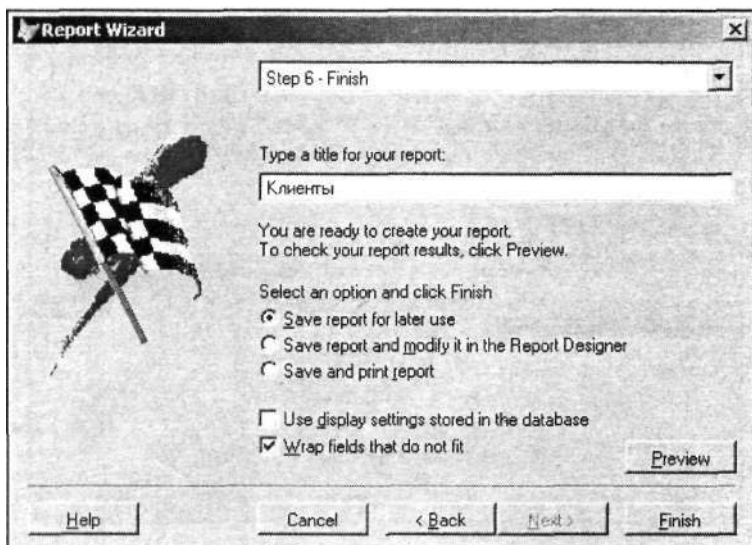
15. _____ , _____)
 Type a title for your report (_____)
 (. 7.11) (. 7.5).

7.5.

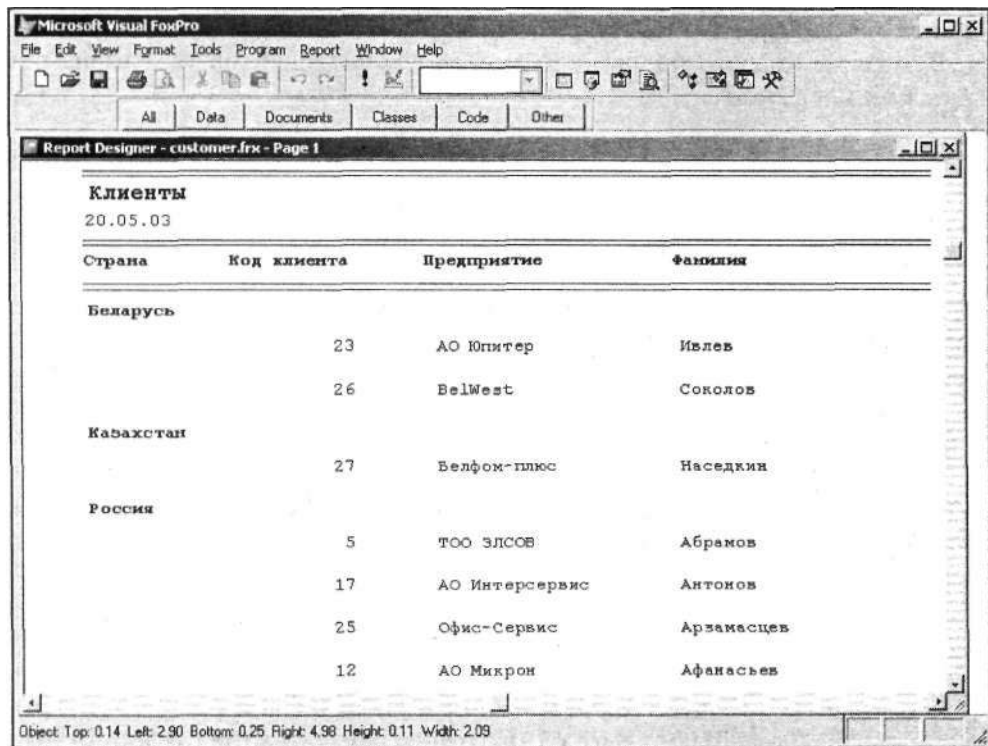
Report Wizard Step 6

-
- Save report for later use (_____)
 Save report and modify it in the Report Designer (_____) -
 Save and print report (_____) -
-

- (_____), _____ Preview -
 Back (_____) _____ -
 _____ , _____ -
 Finish (_____) -
 Save As (_____), _____



. 7.11.



. 7.12.

. 7.12

Замечание

Table Designer () **Caption** ()

Visual FoxPro:

- **Print Preview** () **File** ();
- **Preview** () **View** ();
- **Preview** () ;
- **Print Preview** ()
- **Preview** ()

Print Preview ()

(. 7.13),

. 7.6.



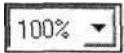
. 7.13.

7.6.

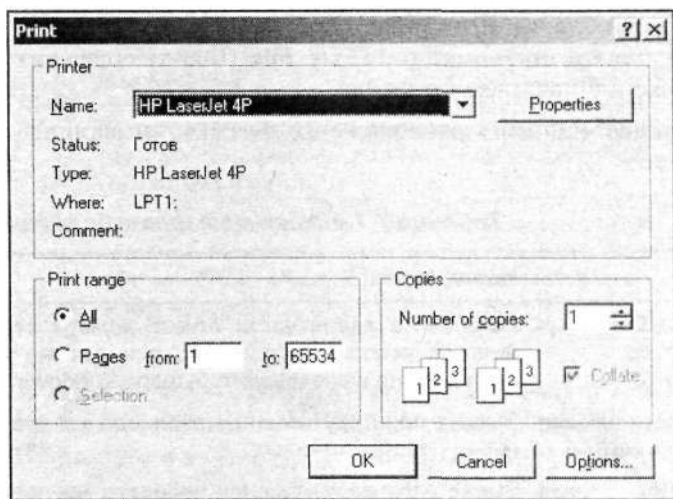
Print Preview



Go to Page ()



- **Print** () **File** ();
- **Run Report** () **Report** ();
- **Print** () ;
- **Print One Copy** () **Run** (-)
Visual FoxPro;
- <Ctrl>+<P>.
Print () (. 7.14),
-
-
Name ()
-
-
-
-



. 7.14.

Print

Print range ()

:

• All () —

;

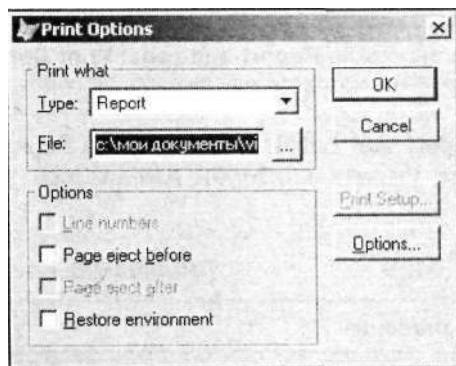
• Pages () —

from: () to: ();

Copies ()

Options ().

Print Options () (. 7.15).



. 7.15.

Print Options

() **Print what** ()
File ()

Options ()
. 7.7.

7.7.

Print Options

Line numbers ()

Windows

Page eject before ()

Page eject after ()

Restore environment () 2.x

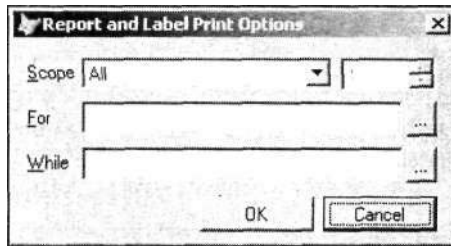
FoxPro

Options ()

Print Options

Report and Label Print Options ()

() (. 7.16).



. 7.16.

Report and Label Print Options

Report and Label Print Options ()

() (. 7.8).

7.8.

Scope ()

Scope ()

7.8 ()

For ()

True ()

While ()

For,

False ()

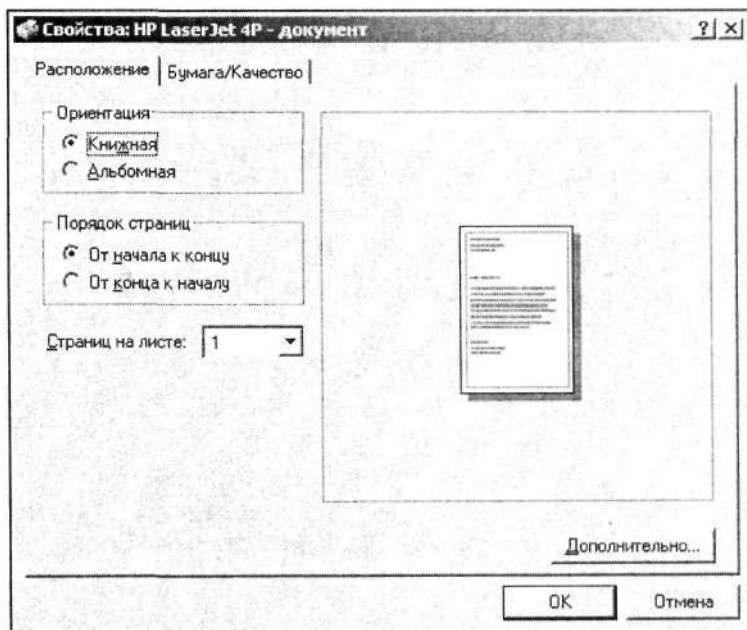
Properties ()

(. 7.17),

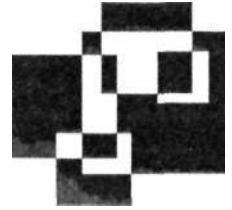
Print () (. 7.14).

/

(),



. 7.17.



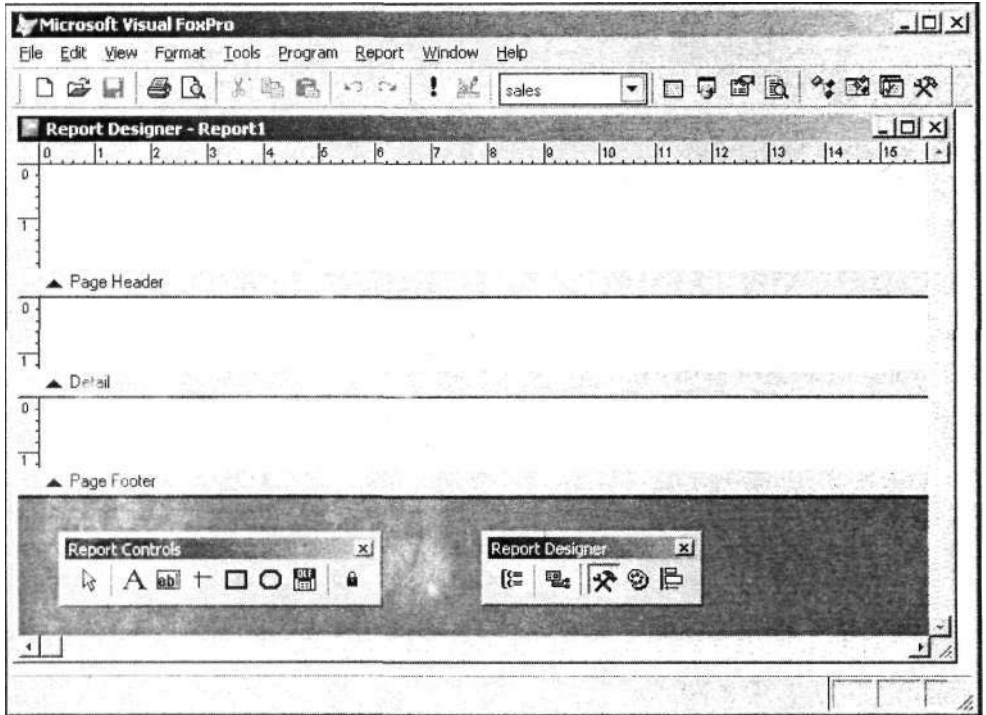
Modify (-

).

:

- File () New ().
New () Report ()
New file ();
- New () ,
Reports (), New Report
() New Report ();
- New () ;
() New () Report
New file ().

Report Designer () Report Controls (-
(), Report () (. 8.1), -








. 8.1.

. 8.1
Controls.

Report

8.1.

Report Controls

-
-  **Select Objects** ()
 -  **Label** ()
 -  **Field** ()
 -  **Line** ()
 -  **Rectangle** ()
-



Rounded Rectangle
()



Picture/ActiveX Bound Control
(/ActiveX)



Button Lock
()

(. . 8.1). -

, -

, -

, -

, -

, -

. 8.2. -

-

8.2.

Title ()

Page Header

()

Group Header

()

Detail ()

Group Footer
()

Page Footer
()

Summary ()

Quick Report

-
-
-
-
-
-

Report () Report (). Quick
 , Quick Report () —
 Quick Report ()

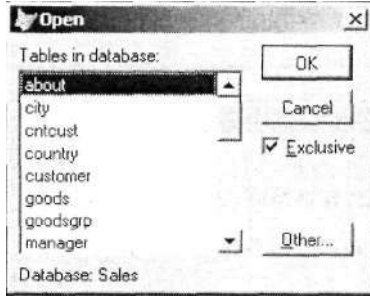
1. Data ()
 Open ()

Databases ()

2.

3. Quick Report (), Report ()

4. Open () (. 8.2).



. 8.2. Open

Замечание

. 8.2. Open (), FoxPro

5. Quick Report (-) (. 8.3), () .

• Detail (-) ;

• Detail () Quick Report () . 8.3.

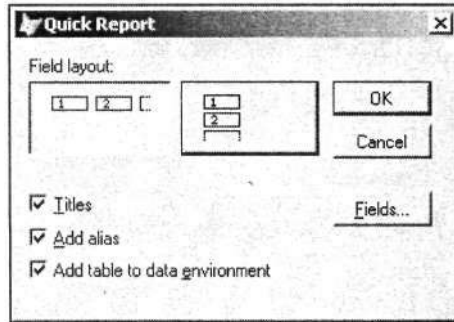
8.3. Quick Report

Titles ()

Add alias ()

Add table to data environment

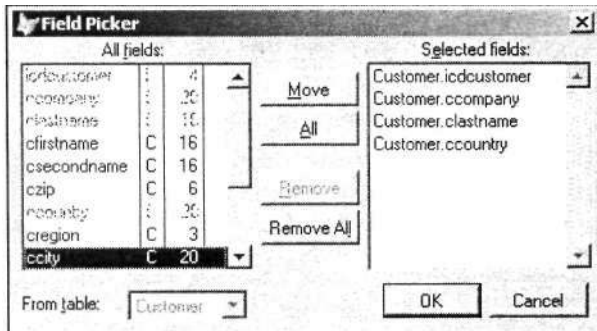
()



. 8.3. Quick Report

6.

Quick Report ().
 Fields ().
 Field
 Picker () (. 8.4).
 Move ().
 All ().



. 8.4. Field Picker

Совет

Remove ().

7.

Field Picker.

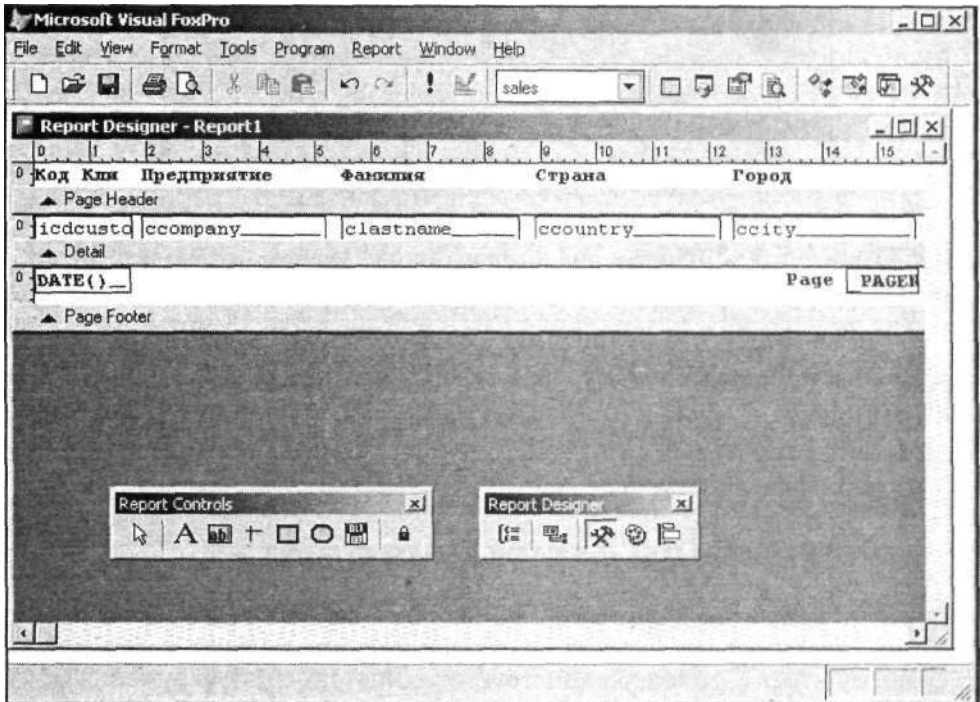
Page Footer (DATE ()

Quick Report (

_PAGENO,

Quick Report (

), . 8.5.



. 8.5.

Quick Report

1.

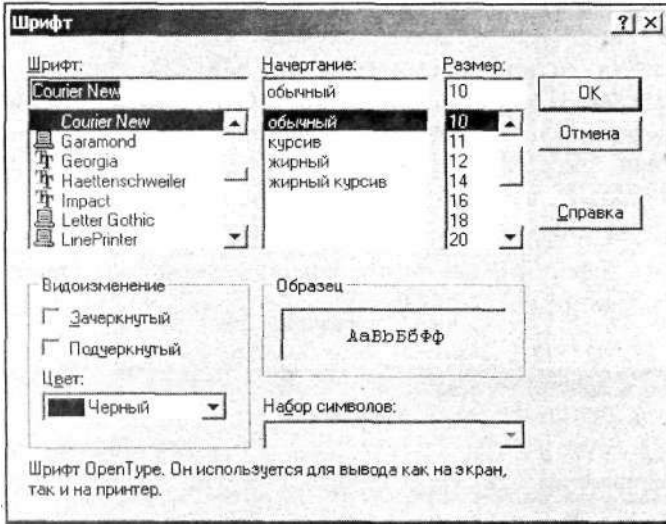
() Edit ().

Select All

2. ()

Font (. 8.6).

Format



. 8.6.

3.

4.

5.

6.

Quick Report

(),

-
-
-

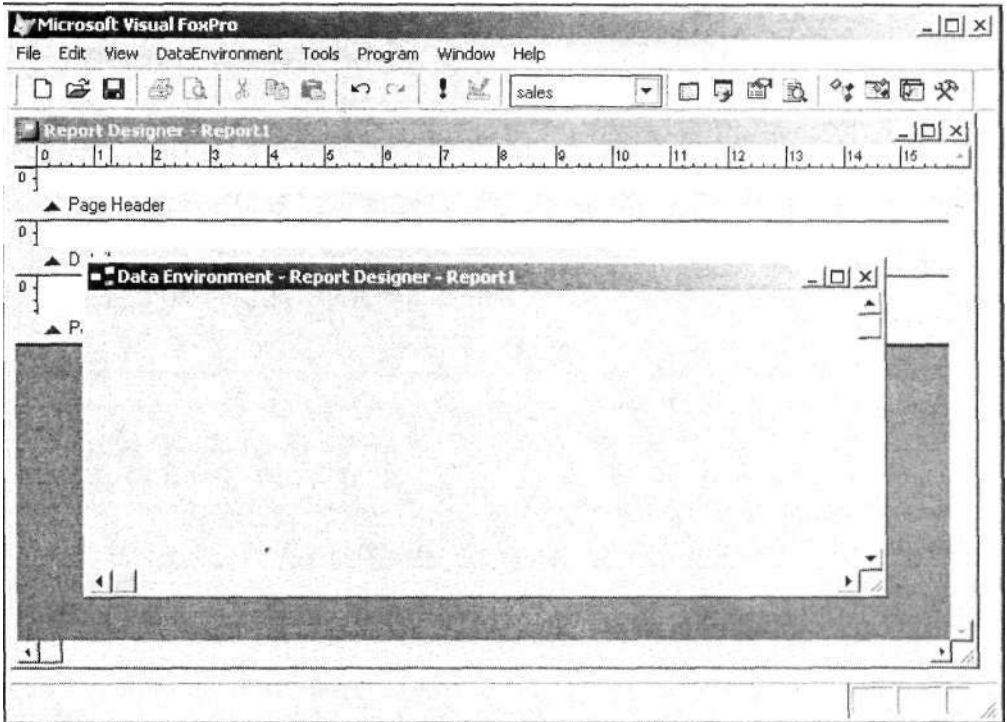
Data

Environment () (. 8.7),

- View () Data Environment (-);
- Data Environment () ;
- ,

Add DataEnvironment (). Add ()
 Data Environment () ,

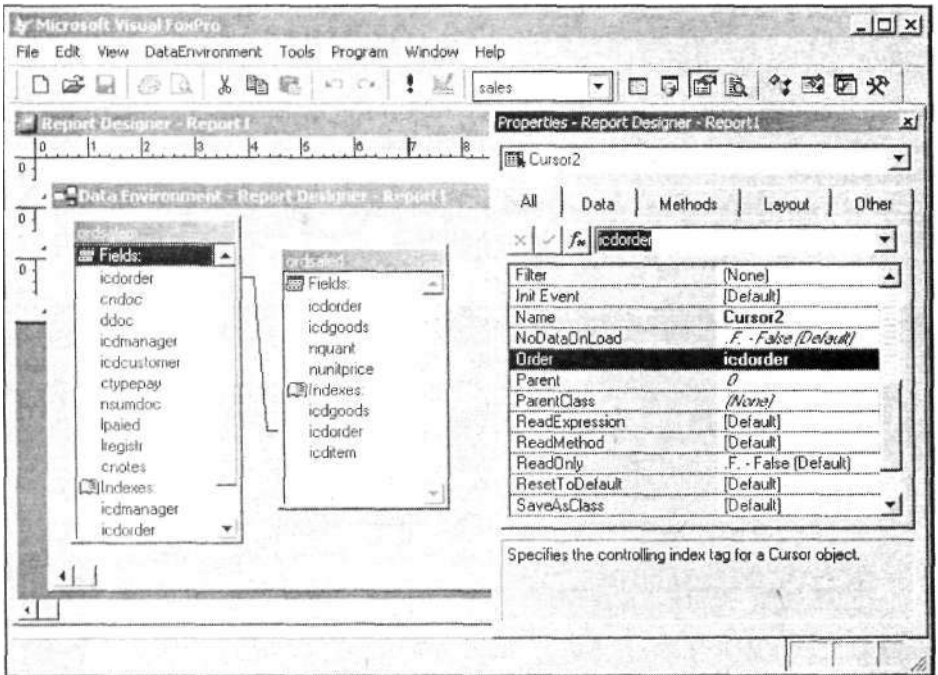
CursorAdapter () Add
 Builder () ,



- 1.
- 2.

Properties ().

- 3. order () (. 8.8).



. 8.8. Order

- 4.

- 1. **Properties** ()

2. , , hildAlias (-
) ParentAlias ().

3. ,
 RelationalExpr (). -
Data Environment () -
 , , Visual FoxPro -

: , , -

, ,
 , Windows, -

:

1. **Label** () **Report Controls**
 ().

2. ,

3. .

4. **Select Objects** () -
Report Controls ().

COBET

<Enter>.

, :

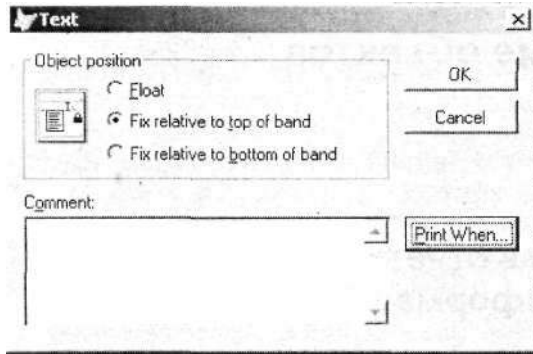
1. ,

2. **Format** () **Font** ().

3.

4.

Text () (. 8.9),



. 8.9.

Text

), **Title** (), **Summary** (-
Report (). **Title/Summary** (/) -
Title/Summary (/) (. 8.10),
. 8.4.

8.4.

Title/Summary

Title band ()	Title ()
New page ()	-
Report title ()	
Summary band ()	Summary -

New page Report summary

()

Page header ()

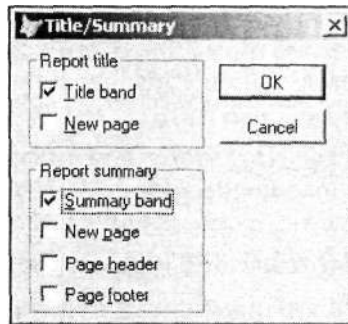
Page footer ()

-

Title ()

-

-



. 8.10.

Title/Summary

Summary ()

-

customer,

1. sales.

2.

Data () -

Open (-

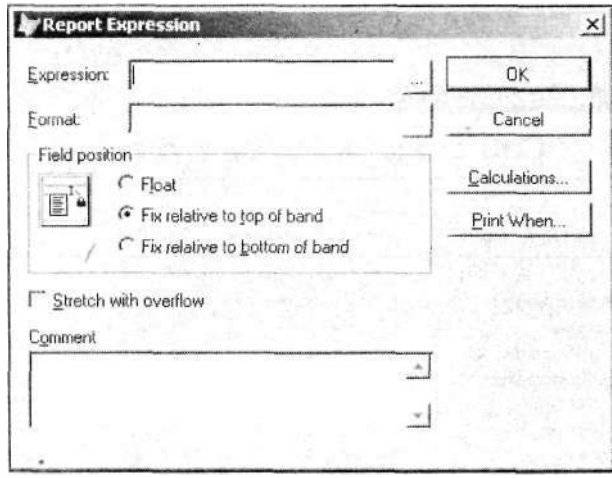
)

Databases ()

- 3. Documents (), Reports
New ().
- 4. New Report ()
- 5. Environment (), Data Environment
View ()
- 6. Add (). DataEnvironment
- 7. Add Table or View (customer Add
Add Table or View (Data
Close ().
- 8. Environment ()
- 9. Properties ().
Order ().
- 10. Data Environment (). icdCustomer.
- 11. Report () Report (). Quick
Quick Report ().
- 12. Fields ().
- 13. Field Picker () Selected fields (),
Move ().
- 14. Quick Report (),
- 15. Label () Report Controls
(),
- 16. Report () Title/Summary ()
- 17. Title band () Title/Summary (/)

3. Report Expression ()
(. 8.12) , , , -

4. , .



. 8.12. Report Expression

Report Expression () :

- , ;
- ;
- ;
-

Expression () Format () — , , , -

Calculate Field (), -
Calculations (), -

Print When (), , ,

1.

Report Expression () (. 8.12).

2.

Expression ().

Expression Builder (),
Expression for Field on Report ()

Fields ()

Expression Builder (

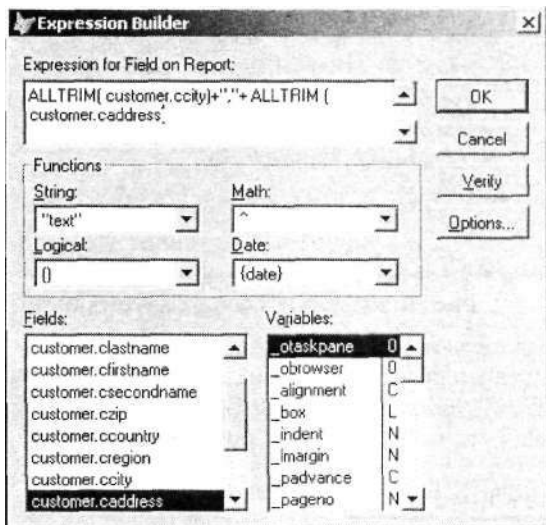
Variables () —

Visual FoxPro.

Functions ()



Expression for Field on Report ()



. 8.13.

Verify ().

(. 8.13):

```
ALLTRIM(Customer.cCity)+", "+ ALLTRIM(Customer.cAddress)
```

3.

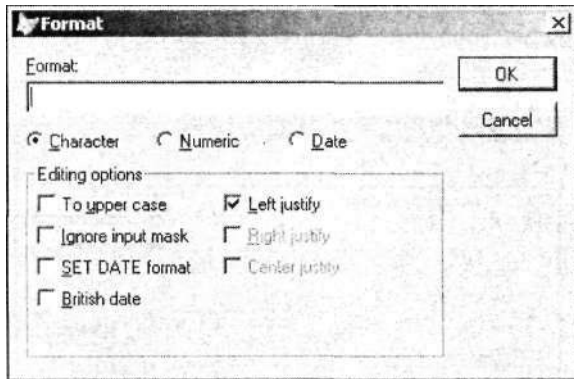
Expression Builder ().

4.

Report Expression (),

Report Expression ()

- ;
- ;
- ;
- ;



. 8.14.

Format

Format

().

Format () (. 8.14),

Замечание

. 8.5—8.7.

8.5.

upper case ()		
Ignore input mask ()		
SET DATE format ()	SET DATE	-
British date ()		
Left justify ()		
Right justify ()		
Center justify ()		

8.6.

Left justify ()		
Blank if zero (,)		
(Negative) ()		-
SET DATE format ()	SET DATE	-
British date ()		
CR if positive (CR,) ()		CR
DB if negative (DB,) ()		DB
Leading zeros ()		
Currency ()	SET CURRENCY	-
Scientific ()		

8.7.

SET DATE format ()	SET DATE	,	-
British date ()			

Print When () (. 8.15),
 Report Expression () Print When ()
).



. 8.15. Print When

No () Print repeated values ()
). Yes ()
 Also print () (. 8.8).
 8.8. **Also print**

In first whole band of new page/column (Ha
 /)

8.8 ()

When this group changes (,)

When detail overflows to new page/column (/) Detail

Remove line if blank ()

Print only when expression is true (,), -
, , -

Field position (,) Report Expression (. 8.12)
(. 8.9).

8.9.

Report Expression

Float ()

Fix relative to top of band () -

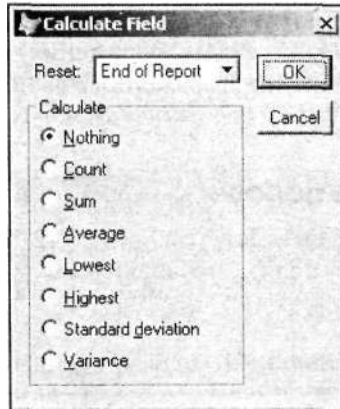
Fix relative to bottom of band () -

Detail () , , , -

Замечание

Detail (),

1. Report Expression (),
2. Expression ().
3. Calculations ().
Calculate Field () (. 8.16),



. 8.16. Calculate Field

Calculate Field ()
(. 8.10).

8.10.

Calculate Field

Nothing ()

Count () (-)

Sum ()

Average ()

Lowest (-)

Highest (-)

8.10 ()

Standard deviation

()

Variance

()

4.

Замечание

Reset (),

5.

().

Report Expression

1.

Line ()

Report Controls ()

2.

3.

4.

n ()
()

Format (),

5.

).

Color Palette ()

Rectangle ()

Rectangle () Rounded

Report Controls ()

)

-

-

-

,

n () **Format** ()

(. 8.11).

8.11.

n

Format

Hairline ()

1 Point (1)

2 Point (2)

4 Point (4)

6 Point (6)

None ()

Dotted ()

Dashed ()

Dash dot ()

Dash dot dot ()

Color Palette

Visual FoxPro

-

-

:

1. **Color Palette** (-



:

- **Color Palette Toolbar** (-
- Report Designer** (-
-);

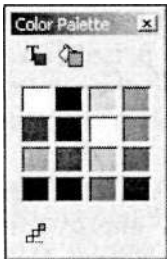
- **View** () **Color Palette Tollbar** (-
-).

Color Palette () (. 8.17) -

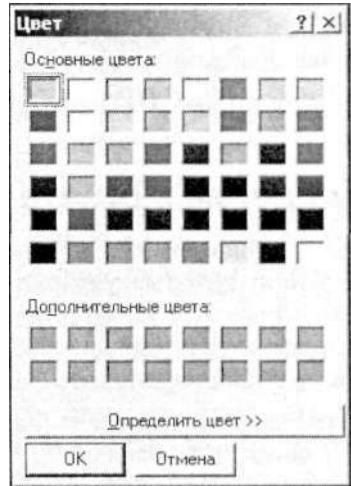
(. 8.12).



2. , .
3. Color Palette (-
) Foreground Color () Background Color
 () , — -
4. .
 .
 Color Palette (-
 (. 8.18) 48 , -
 Visual FoxPro, -
 .



. 8.17. Color Palette



. 8.18.

1.

(рис. 8.19).

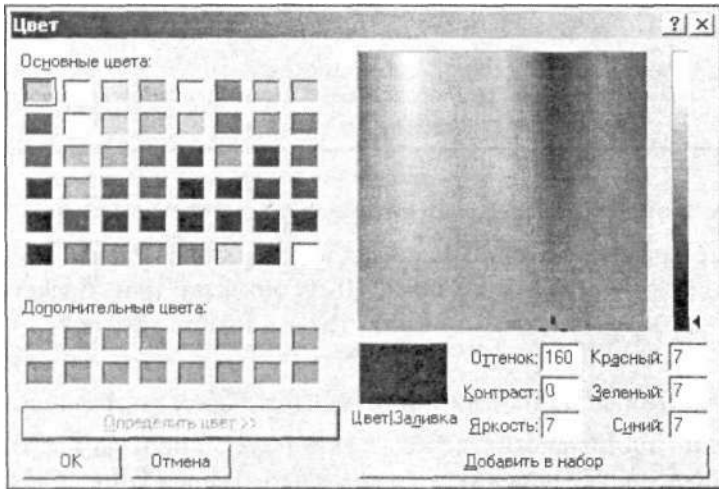


рис. 8.19.

2.

3.

4.

Visual FoxPro,

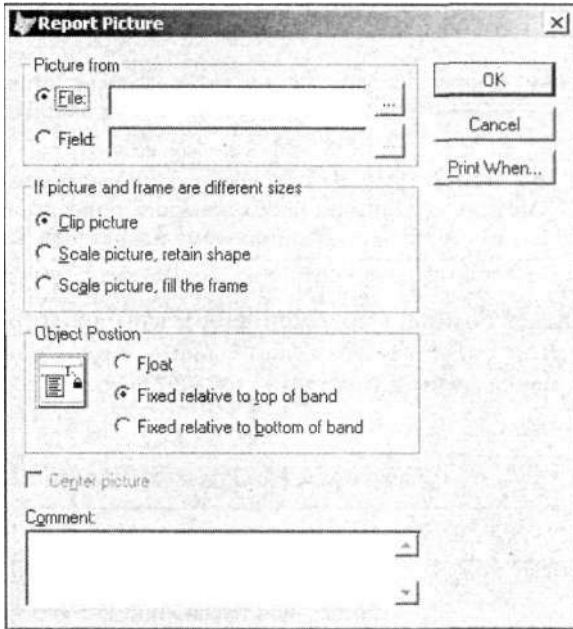
Bound Control (/ActiveX)
Controls ()

Picture/ActiveX
Report

Report Picture () (. 8.20),

General.

Picture from ()



. 8.20.

Report Picture

Report Picture ()

File ().

Open ()

File ()

Open ().

(Visual FoxPro
General),

Report Picture (

Field ().

Choose Field/Variable (/)

If picture and frame are different sizes (,) (. 8.13).

8.13. If picture and frame are different sizes

Clip picture (- ,)

Scale picture, retain shape (, -)

Scale picture, fill the frame (,)

Picture (Object Position () Report (. 8.14).

8.14. Object Position

Float () -

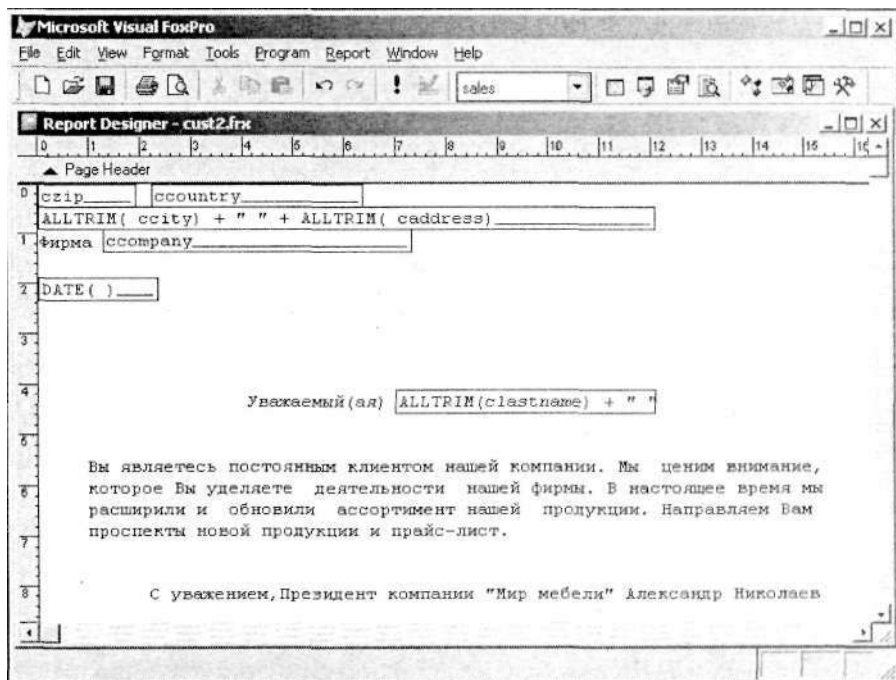
Fixed relative to top of band () -

Fixed relative to bottom of band (-) -

1. Sales.

2. Data () -
Open ()

- Databases ()
3. Documents (), Reports
 () New ().
 New Report () New Report (-
).
4. Data Environment (),
 Data Environment () View
 ()
5. DataEnvironment
 () Add (). -
 Add Table or View (-
) customer .
6. Quick Report
 () Report (). -



7. **Detail** ()

ALLTRIM(Customer.cFirstName) + " " + ALLTRIM(Customer.cSecondName)

8.

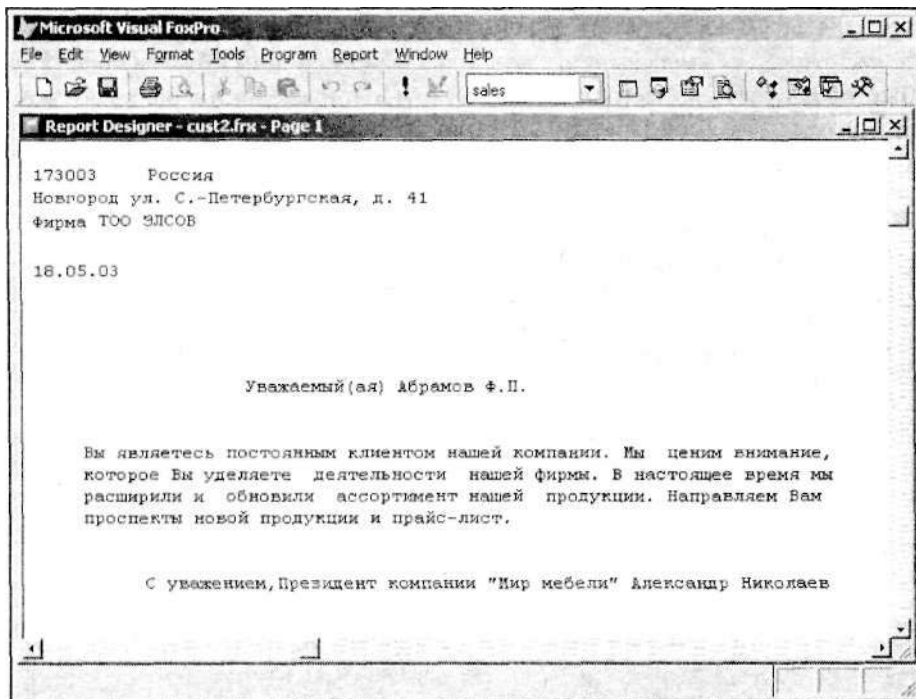
ALLTRIM(Customer.cCity) + " " + ALLTRIM(Customer.cAddress)

9. . 8.21.

10.

Preview () . 8.22.

11.



. 8.22.

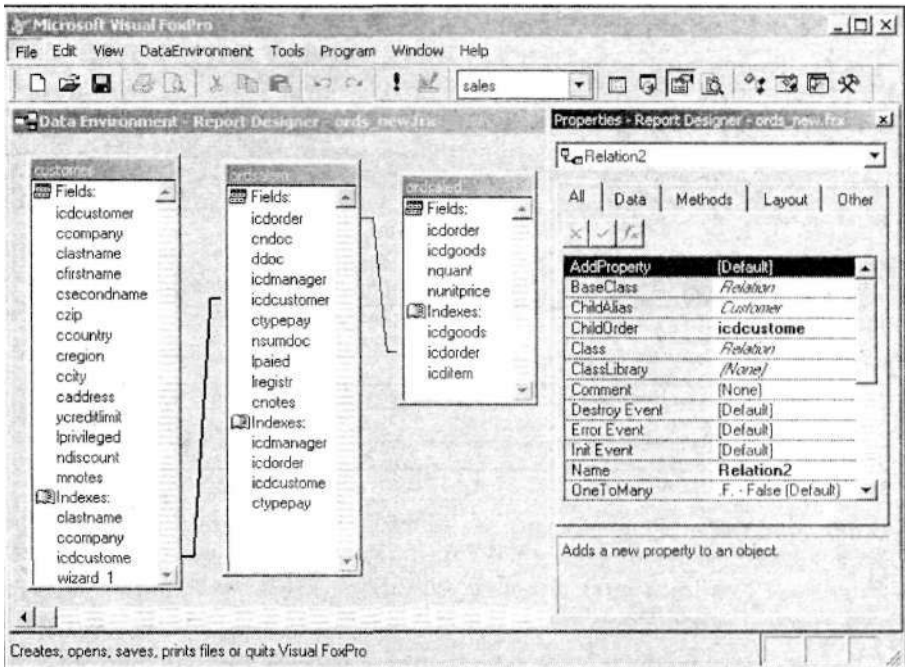
Ordsaled

(,)

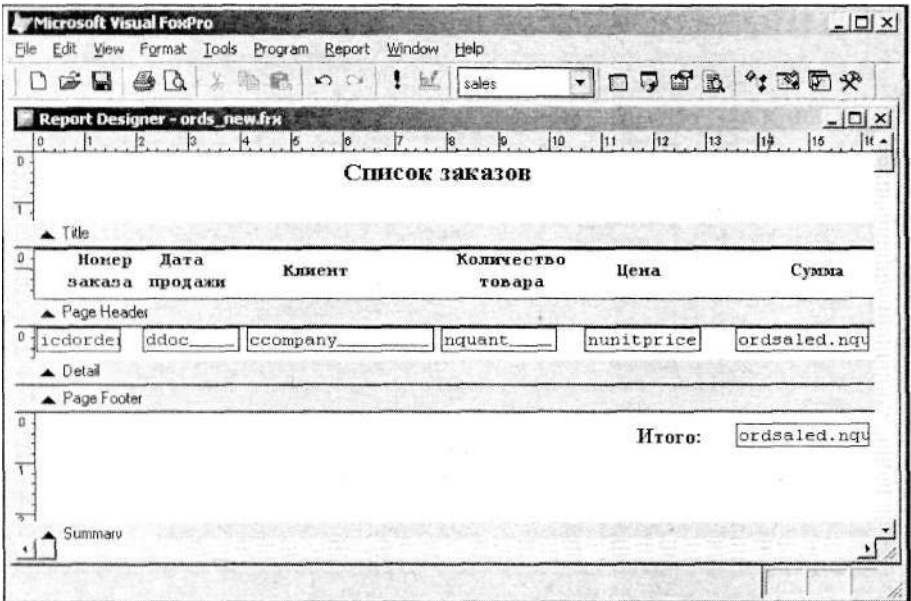
Customer —

- 1.
2. **Data Environment** ()
Ordsalem, Customer Ordsaled.

- Ordsalem
- Ordsaled Customer;
- Ordsalem customer
- Ordsalem Ordsaled
- Ordsalem
- Customer — , Ordsaled — (. 8.23),
- **Data Environment** ().



3. **Quick Report** () **Report** (-),
 - cCompany c Customer;
 - dDoc, Ordsalem;
 - nQuant Ordsaled;
 - nUnitprice c Ordsaled.
4. , :
 OrdSaled.nQuant * OrdSaled.nUnitPrice
5. **Page Header** ()
6. **Title/Summary** (/) **Report** (,)
7. .
8. ,
9. ,
 . 8.24.
 (. 8.25).
10. .



Microsoft Visual FoxPro

File Edit View Format Tools Program Report Window Help

Report Designer - ords_new.frx - Page 1

СПИСОК ЗАКАЗОВ

Номер заказа	Дата продажи	Клиент	Количество товара	Цена	Сумма
1	11.04.03	АО Айрис	3	2176.00	6528.00
1	11.04.03	АО Айрис	2	1849.00	3698.00
1	11.04.03	АО Айрис	1	1030.00	1030.00
2	10.04.03	Банк Программ	5	735.00	3675.00
2	10.04.03	Банк Программ	7	1350.00	9450.00
3	10.04.03	СП Людмила	10	1070.00	10700.00
3	10.04.03	СП Людмила	12	435.00	5220.00
3	10.04.03	СП Людмила	1	1579.00	1579.00
3	10.04.03	СП Людмила	1	5299.00	5299.00
4	11.04.03	АО Интерпрайзис	14	1350.00	18900.00

. 8.25.

. 8.25.

() Report ()

()

20

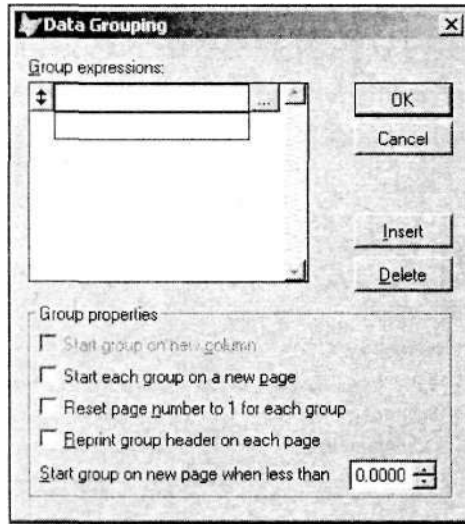
Data Grouping
Data Grouping

Grouping () (. 8.26),

Data

Group expressions (

).



. 8.26. Data Grouping

Data Grouping ((. 8.15).

8.15.

Data Grouping

Start **group on** new column (-)

Start each group **on a new page** ()

Reset page number to **1 for each** group ()

Reprint group header **on each** page ()

Start group on new page **when less than** (,)

1

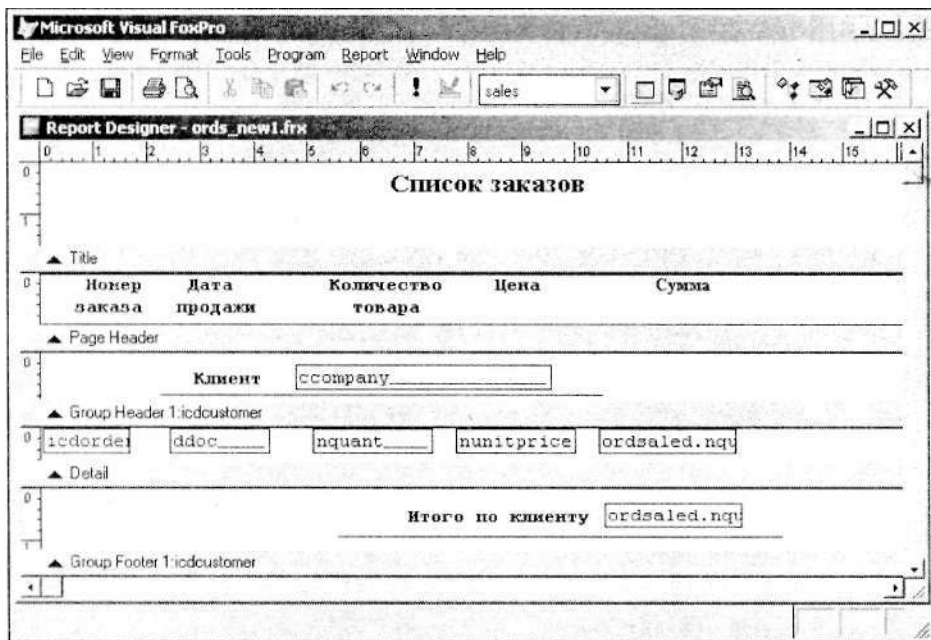
Insert ()

Data Grouping

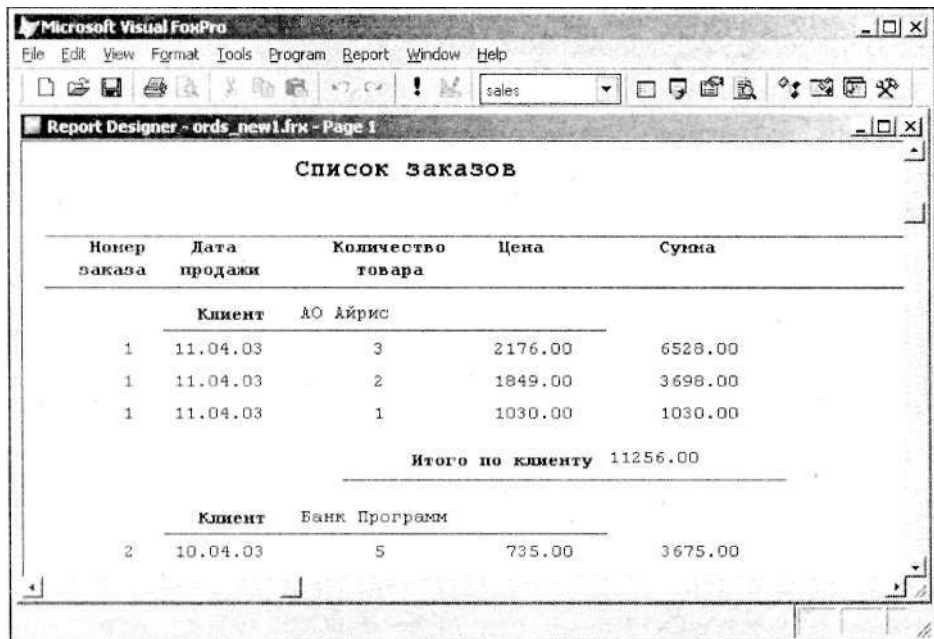
()

Delete ().

1. ,
2. icdCustomer **Report**
3. **Data Grouping ()**.
Group expressions () -
Data Grouping () -
4. **Fields ()** icdCustomer
Ordsalem.
5. **Group expressions ()** -
Data Grouping () -
icdCustomer.
6. ,
7. **Group**
Header ().
8. ,
9. **Group Footer ()** -
:
Ordsaled.nQuant * Ordsaled.nUnitPrice
10. . 8.27.
(. 8.28).
- 11.

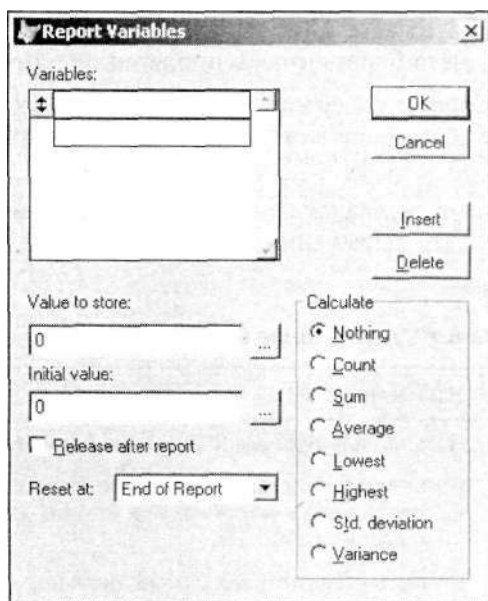


. 8.27.



. 8.28.

Report Variables (-
 Variables () (. 8.29),
 Delete () Report (). Insert ()



. 8.29.

Report Variables

Report Variables ()
 . 8.16.

8.16.**Report Variables**

Variables ()

,
 ;
 -

8.16 ()

Value to store ()

Initial value ()

Замечание

() Initial value (), Value to store
Expression Builder (),

Release after report ()

Reset at ()

Report Variables (-
(. 8.17).

8.17.

Report Variables

Nothing ()

Count ()

Sum ()

Average ()

Lowest

()

Highest

()

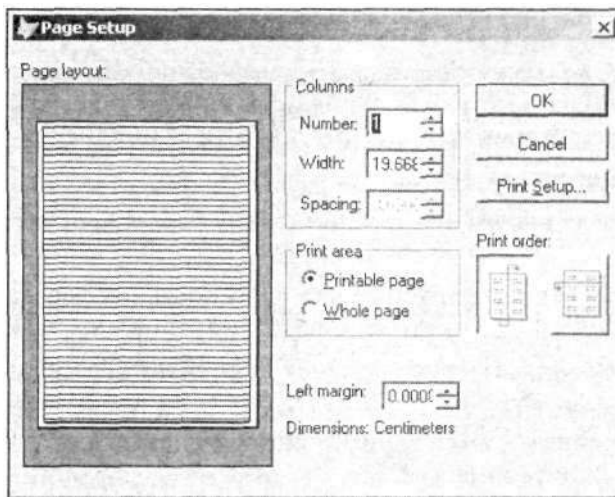
Std. Deviation

()

Variance ()

Report

Page Setup
File



. 8.30.

Page Setup

Columns ()

(. 8.18).

8.18.

Columns

Page Setup

Number ()

Width ()

Spacing ()

Print area ()

. 8.19.

8.19.

Print area

Printable page

()

,

-

Whole page

()

Left margin () Print order ()

-

1.

2.

Customer,

3.

. 8.31.

4.

File ()

Page Setup ()

).

5.

Number ()

Page Setup

()

2,

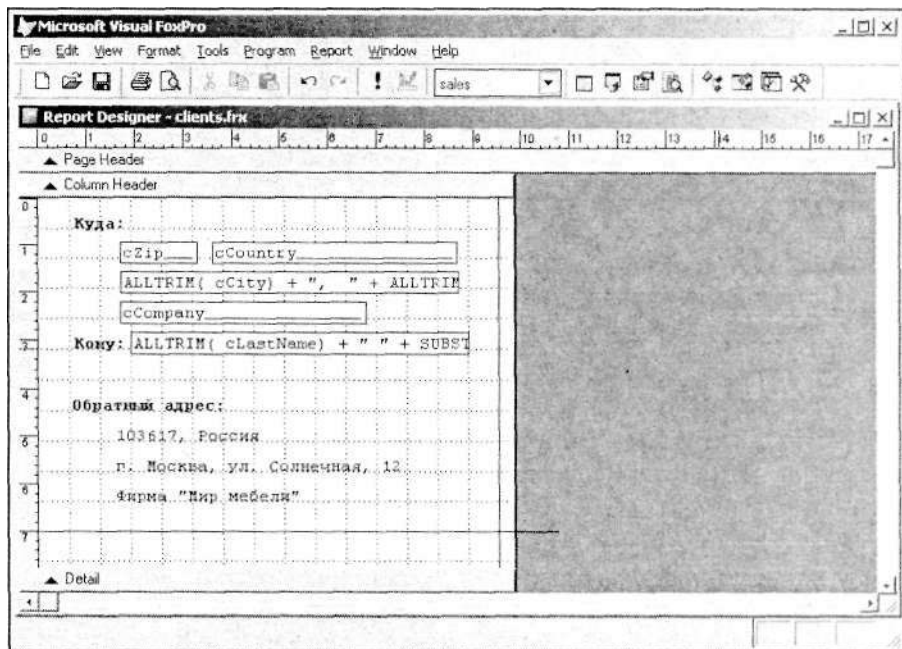
6.

Preview (

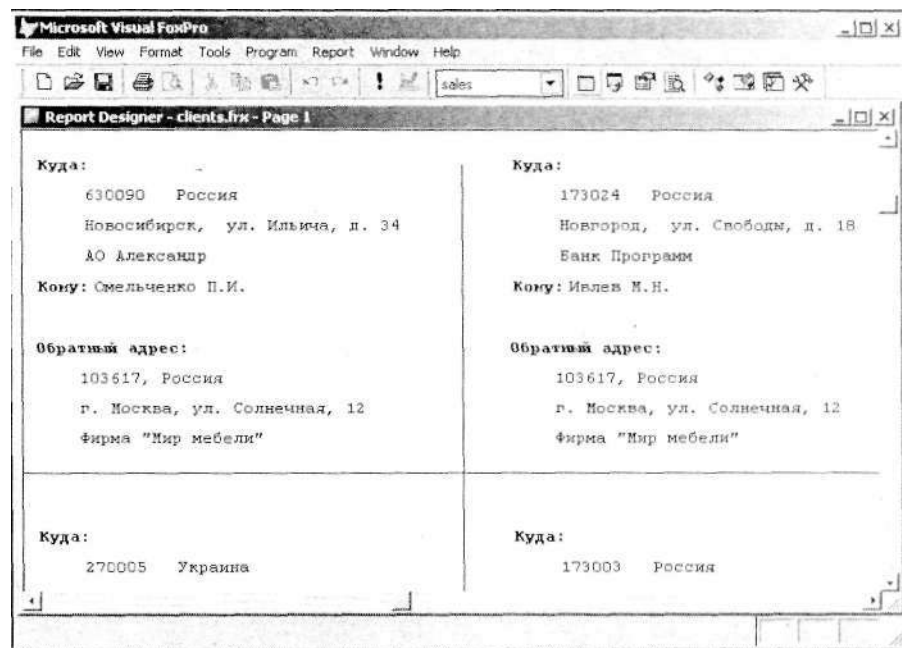
-

) (. 8.32).

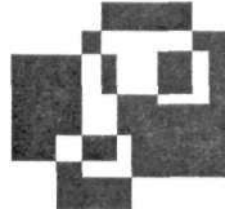
7.



. 8.31.



. 8.32.



Visual FoxPro

5 000

SELECT Visual FoxPro.

Query Wizard

Step 3 - Filter Records

Do you want to display only certain records?
Create an expression that describes the records you want to see by using the Field, Operator, and Value boxes.
To see the results of your filter expression, click Preview.

Field: CUSTOMER.CLASTNAME Operator: equals Value: "Петров"

And Or

Field: CUSTOMER.ICDCUSTOMER Operator: equals Value: "Беларусь"

Preview...

Help Cancel < Back Next > Finish

Visual FoxPro

Browse ()

1. Data ()
().

Queries

2. New ().

3. New Query ()
New Query ()

Add Table or View ().

4. Add ()

5. Close ().

(. 9.2),

Query ().

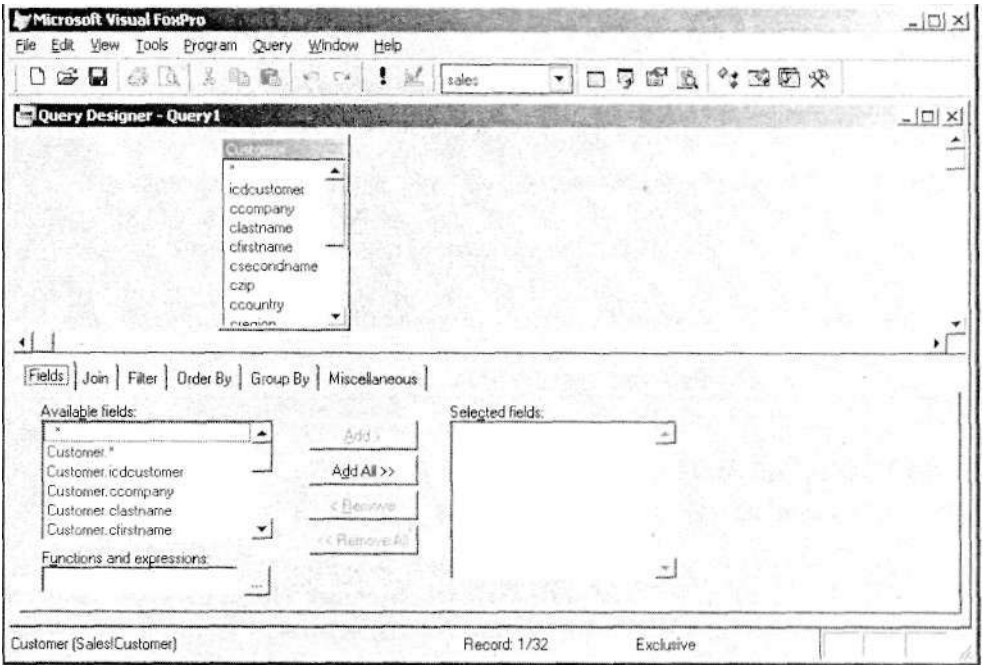


Data ()

Queries ()

Modify

().



. 9.2.

, , -
:
• ;
• ;
• , ;
• , -
, -
, -

. 9.1.

9.1.

Fields () , -

Join ()

9.1 ()

Filter ()

Order By (-)

Group By ()

Miscellaneous ()

Query

Query Designer ().
. 9.2.

9.2.

Query Designer

Add Table ()



Remove Table ()



Remove Join Condition (-)

Output Fields ()

Fields

Join ()

Join

Filter ()

Filter

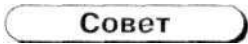
Order By ()

Order By

Group By ()

Group By -

Miscellaneous ()		Miscellaneous	-
Query Destination ()		Destination,	Query -
View SQL (SQL)		SQL	,-
Maximize the table view ()			,-
Add Join ()			Join Condition
Comments ()			,-
Run Query ()			

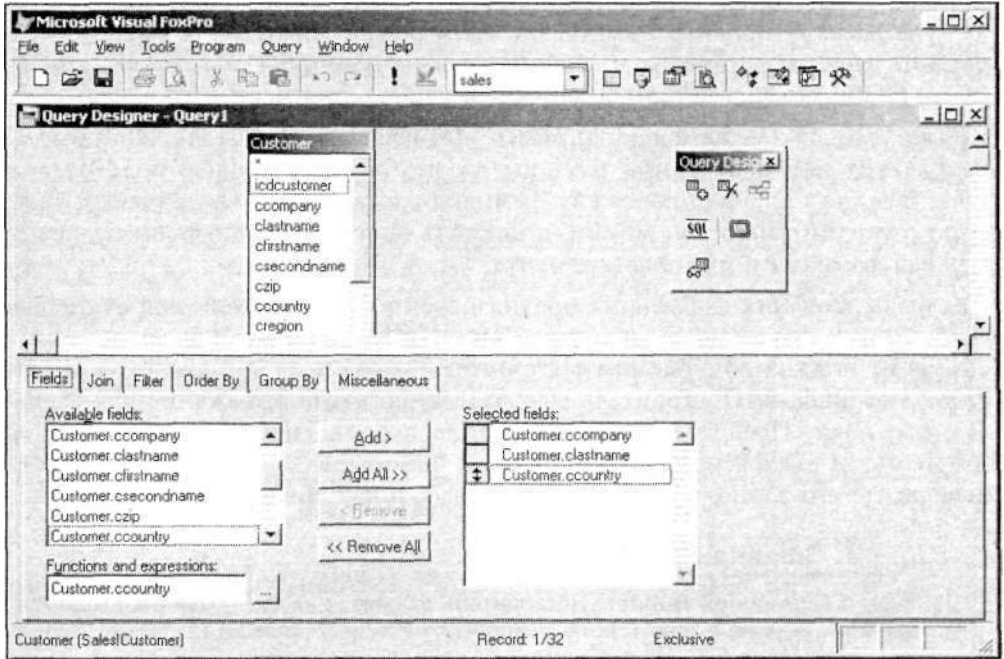


	View SQL	SELECT,	-
	Windows	Show the SQL window	,-
		SELECT	-
		QPR,	,-
Save as ()		File ()	Save As () -
Data ()	Modify ()	Queries ()	-

- **Run ()** ;
- **Run Query ()** ;
- **Query () Run Query ()** ;
- **<Ctrl>+<Q>**.
- **Run ()**.

- **Fields ()** (. 9.3).
- **Fields () Available fields ()** Selected fields () Available fields () Selected fields ()
- **Add () Add All ()** Selected fields () **Remove** Available fields ()
- **Selected fields ()**

- Available fields () Selected fields () Available fields ().



9.3. Fields



Windows, <Shift> <Ctrl>, <Shift> <Ctrl>

Selected fields ().

Visual FoxPro

customer

Fields ()

Functions and expressions

Expression Builder ()

Selected fields ()

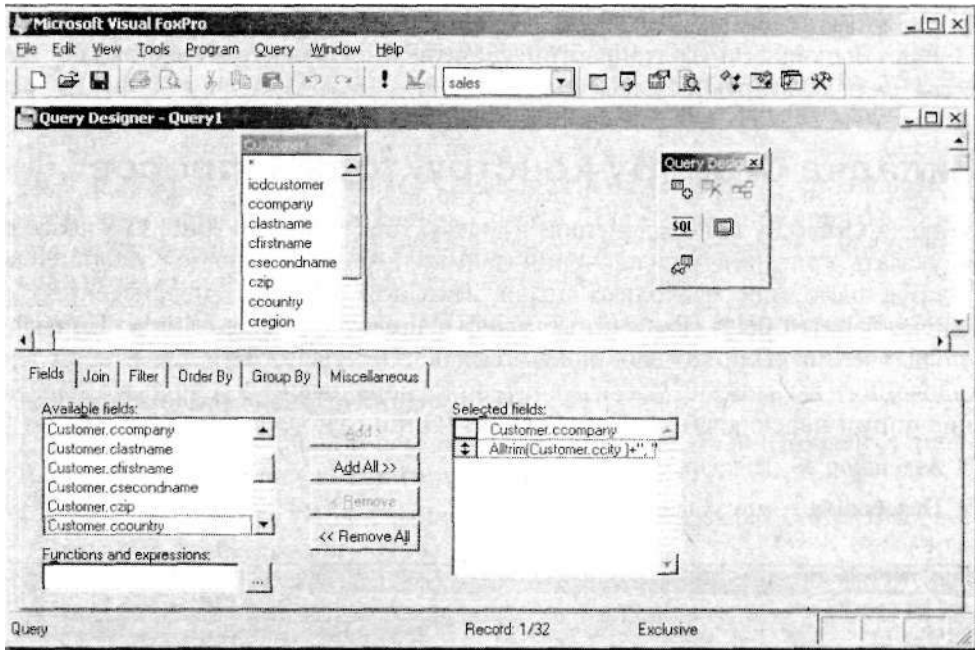
Add ()

Замечание

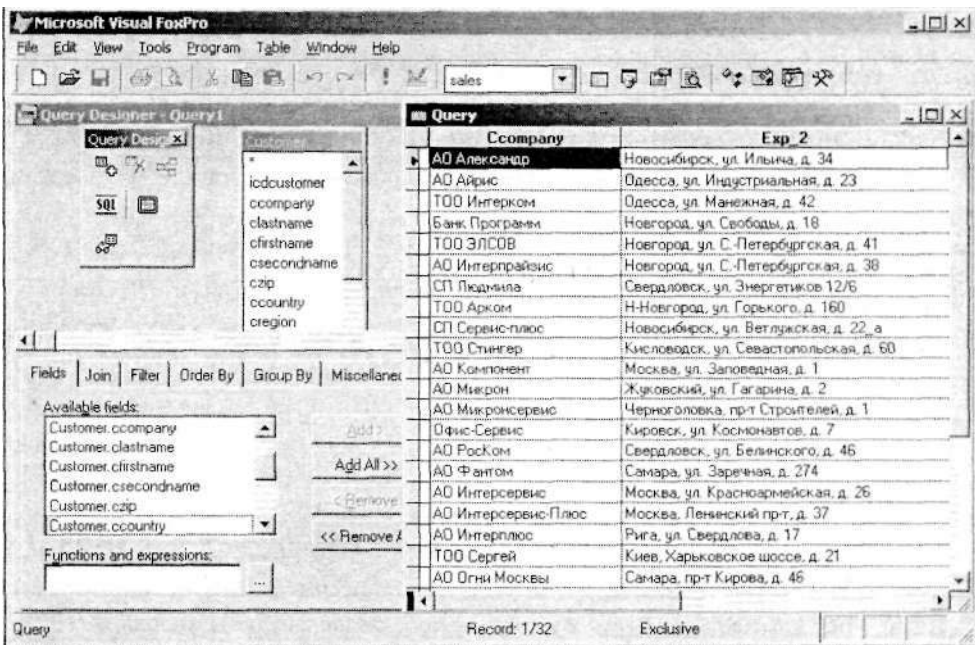
Expression Builder ()

customer,

1. Customer.
2. **Fields** () **Selected fields** ()
cCompany,
3. **Functions and expressions** ()
Expression Builder ()
:
ALLTRIM(cCity)+ " " +ALLTRIM(cAddress)
- 4.
5. **Selected fields** ()
Add ()



. 9.4.



. 9.5.

6. (. 9.4).
 Run () ,
 (. 9.5).

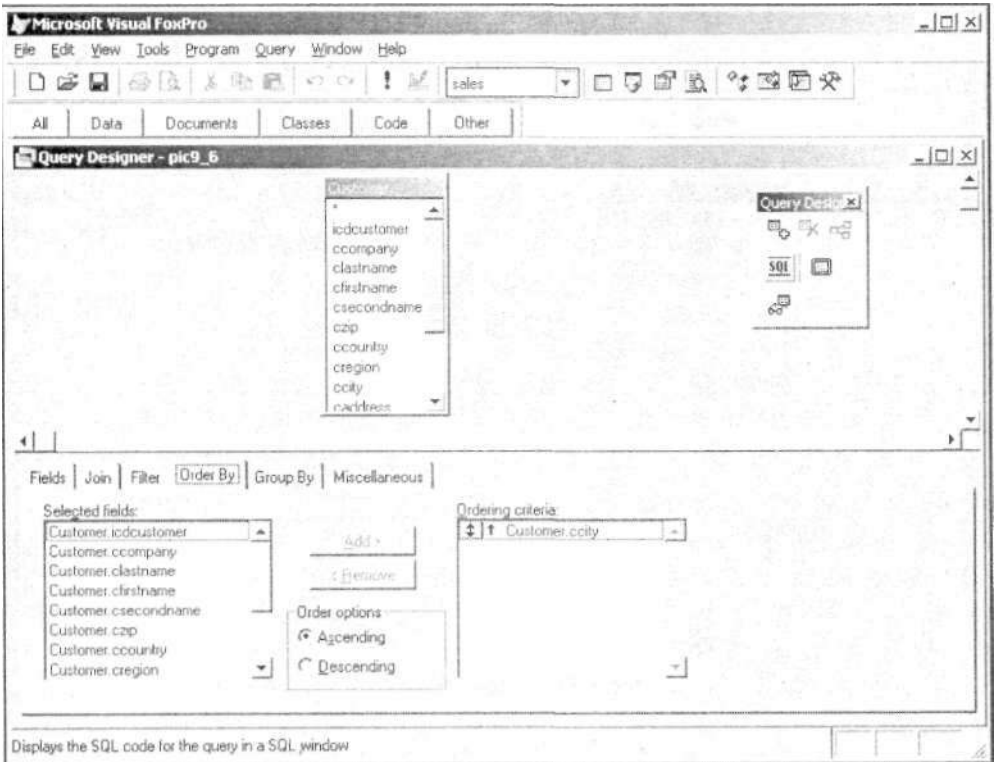
Order By

Order By () (. 9.6)

Selected fields () Ordering criteria ()
). Ordering criteria ()
)

Order options ():

- Ascending —
- Descending —



. 9.6. Order By

Ordering criteria ()
Ascending (),

Ordering criteria ()

Ordering criteria ()

Customer,

1.

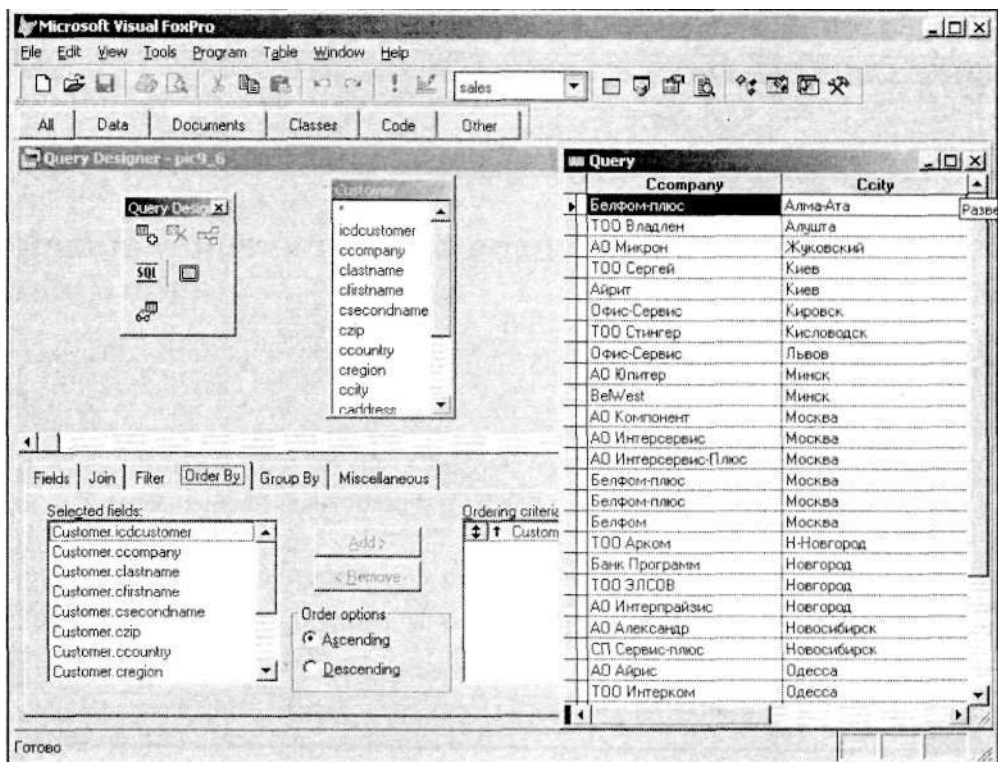
2.

Add Table or View ()
Customer.

3.

Fields () Selected fields ()

) cCompany cCity.

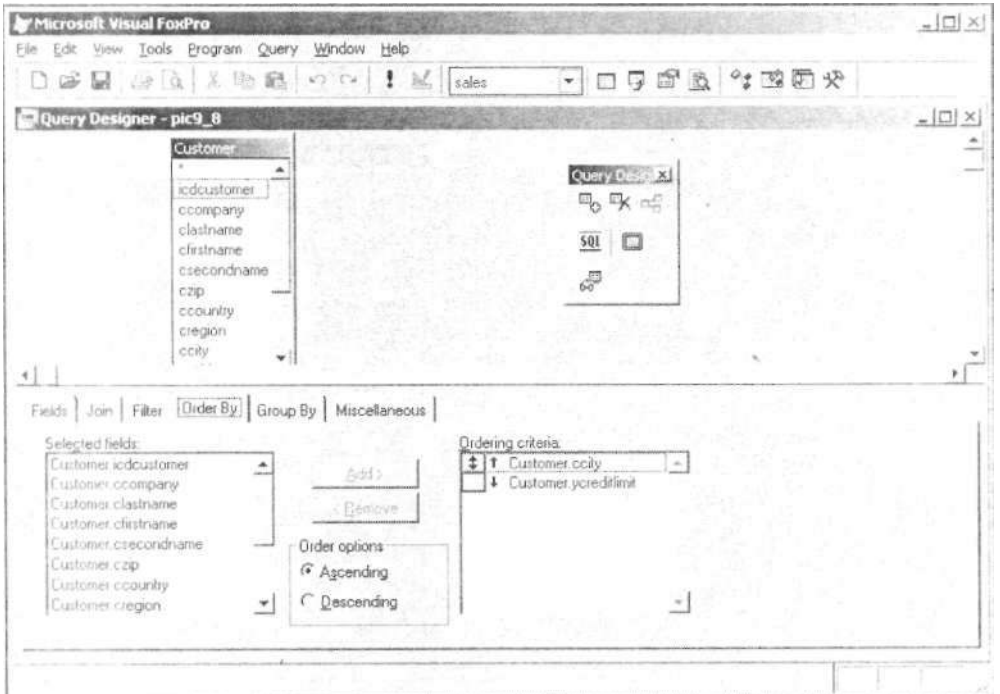


4. Order By ().

5. cCity, Ordering criteria
().
Ascending, . . .

6. Run () (. 9.7).

1. Fields () Selected fields ()
) yCreditLimit.



2. **Ordering criteria** (**Order By** (
).
c ity,

3. y CreditLimit **Ordering criteria** ().

4. **Descending** (). -
(. 9.8).
Ordering criteria () c ity

y CreditLimit — , -
, -
— .

Filter ()

Filter ()

, Visual FoxPro

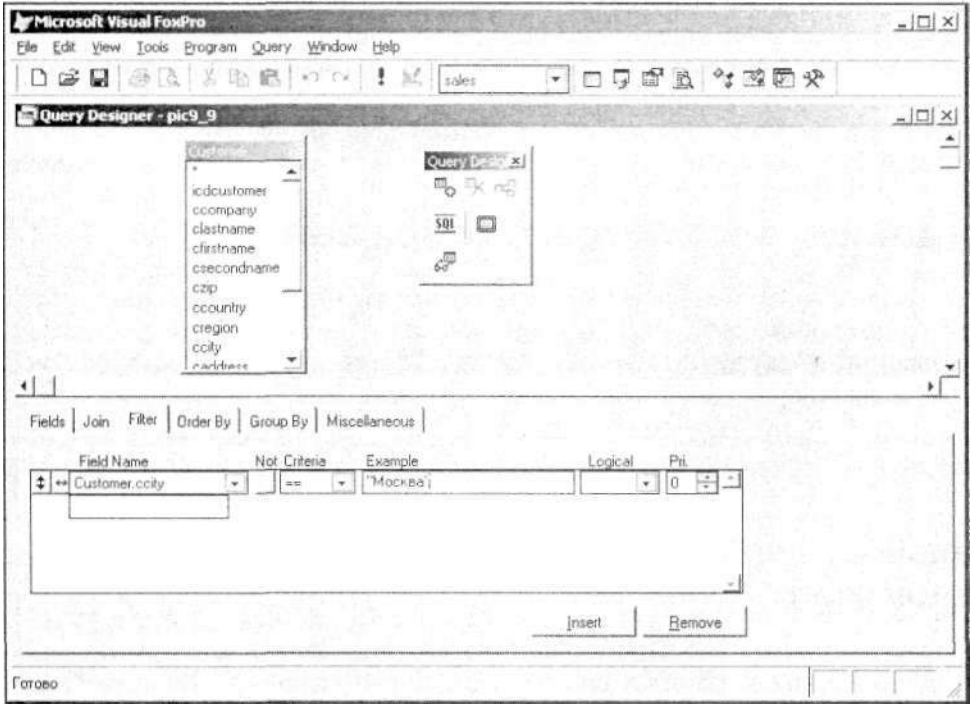
1.

2. Customer.

3. **Fields** () **Selected fields** (

4. **Filter** ()

- 5. Field Name () cCity.
- 6. Criteria () == .
- 7. Example () (. 9.9).
- 8. Run () .



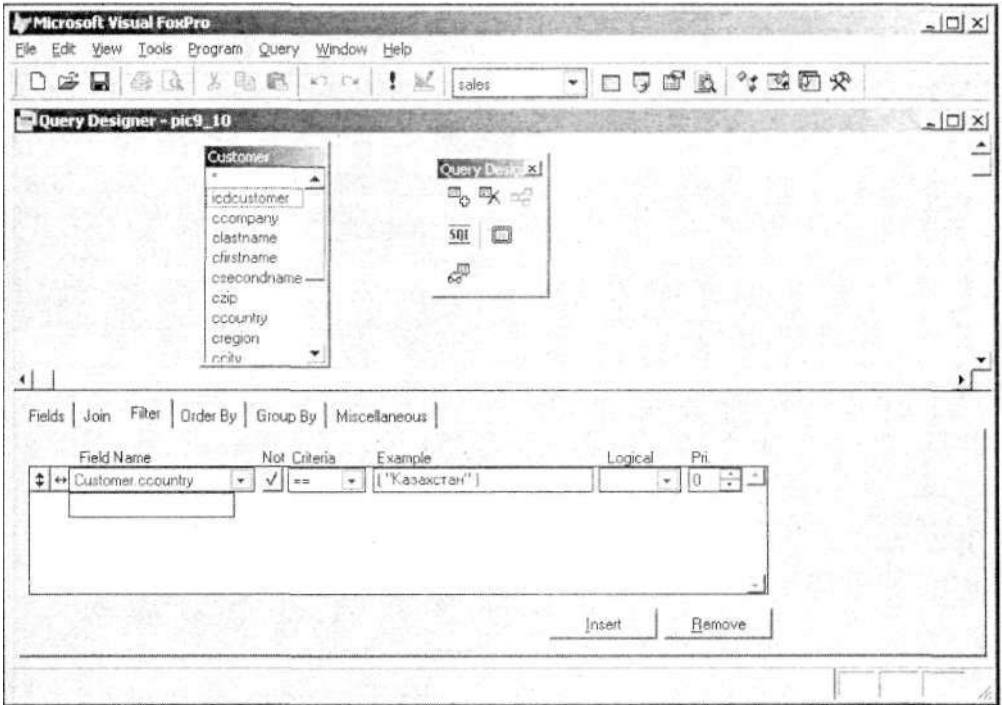
. 9.9.

Not (He), Filter ()

Not (He),

customer
cCountry.

1. ,
2. **Filter** ().
3. **Field Name** ()
cCountry.
4. **Not** (He),
5. **Criteria** ()
6. **Example** ()
(.9.10).
7. **Run** ().



Criteria ()

Filter ()

Customer

1.

2.

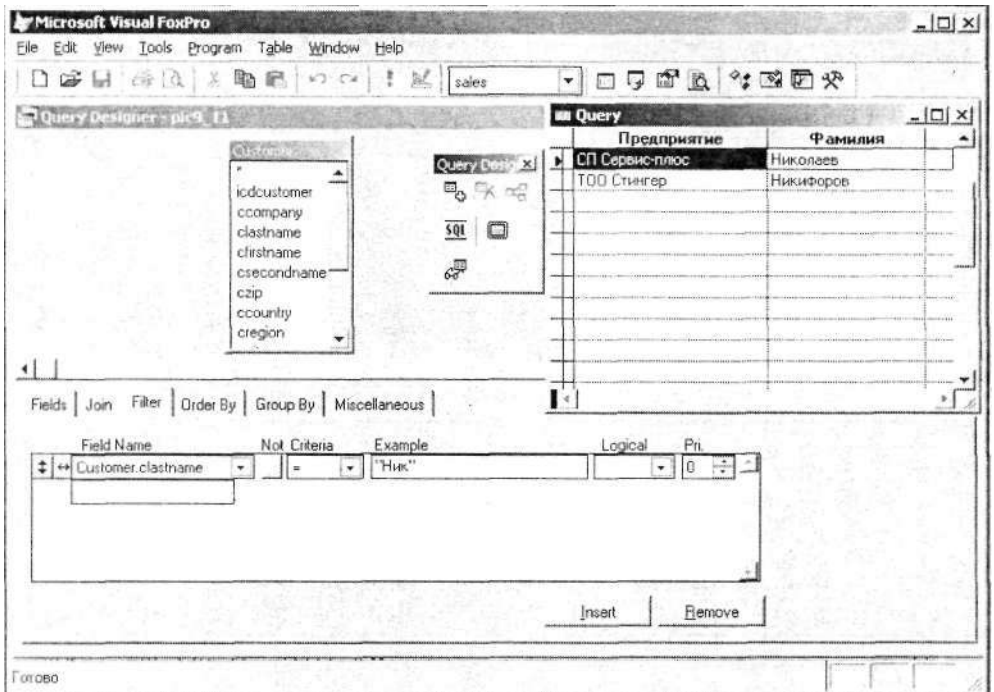
Customer.

3.

Fields ()

Add ()

Selected fields ()



4. **Filter** () cLastName.
5. =.

6. **Example** () (. 9.11).
Visual FoxPro

> (), < () **Between** () **Criteria**
() **Filter** (). > () < ()
, a **Between** () —
, 10 000

10 000 :

1.
2. Ordsalem.
3. **Selected fields** () **Fields** ()

4. **Filter** ()
nSumdoc.

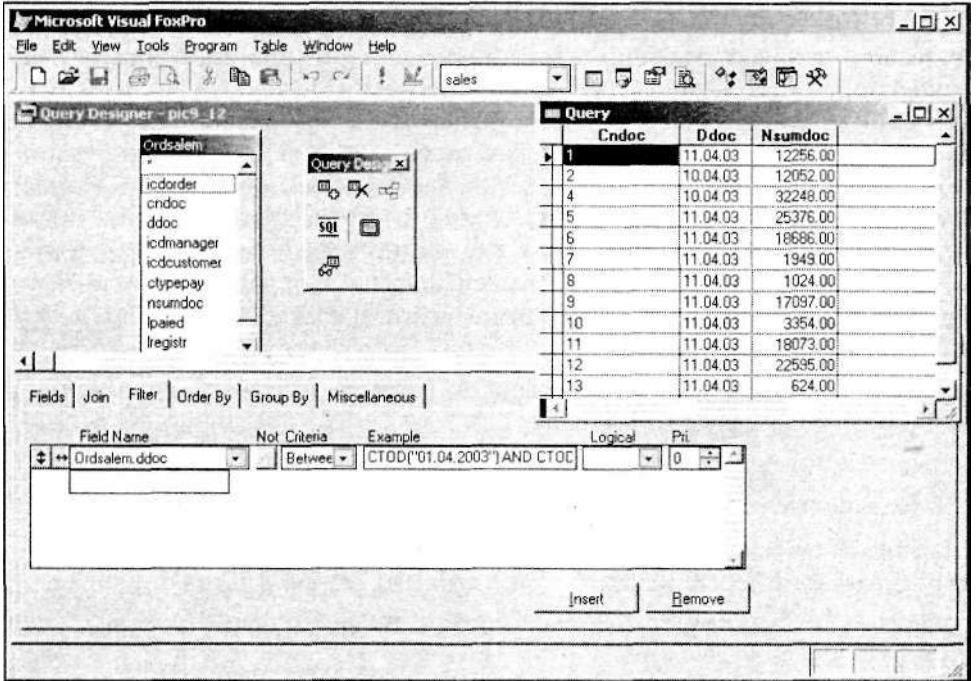
5. **Criteria** () >.
6. **Example** () **10000**.

7. **Run** ()
10 000

() **Filter** :

1. ,

2. **Filter** () **Field Name** ()
dDoc,
3. **Criteria** () **Between** ().
4. **Example** ()
(. 9.12) :
- CTOD("01.04.2003") AND CTOD("15.04.2003")**
5. **Run** ()



. 9.12.

Замечание

Visual FoxPro
" , " ,
cCompany,

Example ()
Customer

Visual FoxPro

Filter ().

1.

2. Customer.

3. Fields ()

Selected fields ()

)

4. Filter ().

5. Field Name (),

Customer, cCity.

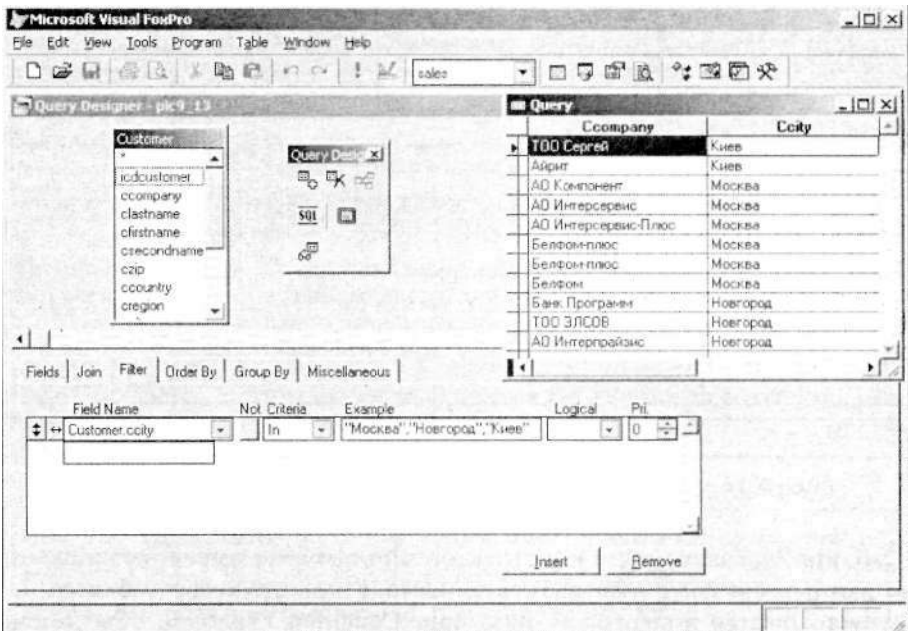
6. Criteria ()

In ().

7. Example ()

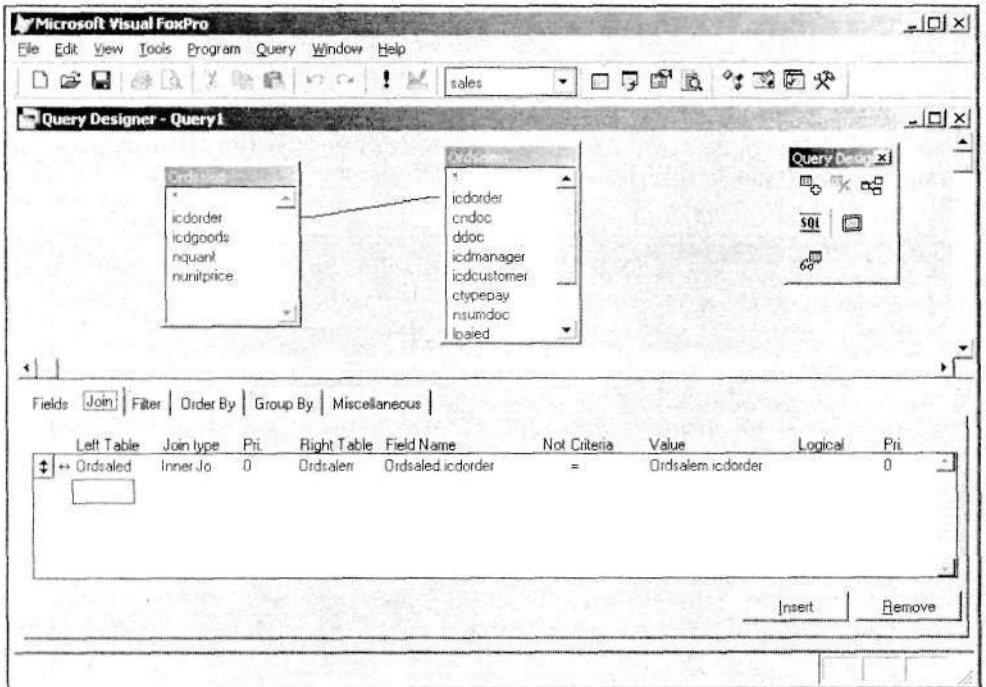
(. 9.13).

8. Run ()



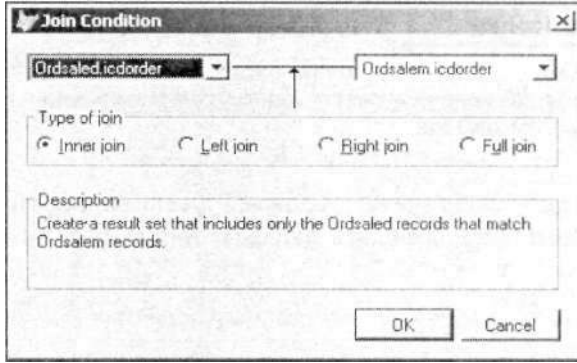
. 9.13.

Join ()
(. 9.14).



. 9.14. Join

Join Condition ()
(. 9.15),



. 9.15.

Join Condition

Join Condition ()

Type of join (),

. 9.3.

9.3.

Join Condition

Inner join () - , -

Left join () - , ,

Right join () - , ,

Full join () - ,

Замечание

Visual FoxPro join (),'

Inner

Замечание

Join ()

Совет

Join ()

Goods. customer
Ordsalem
Goods —

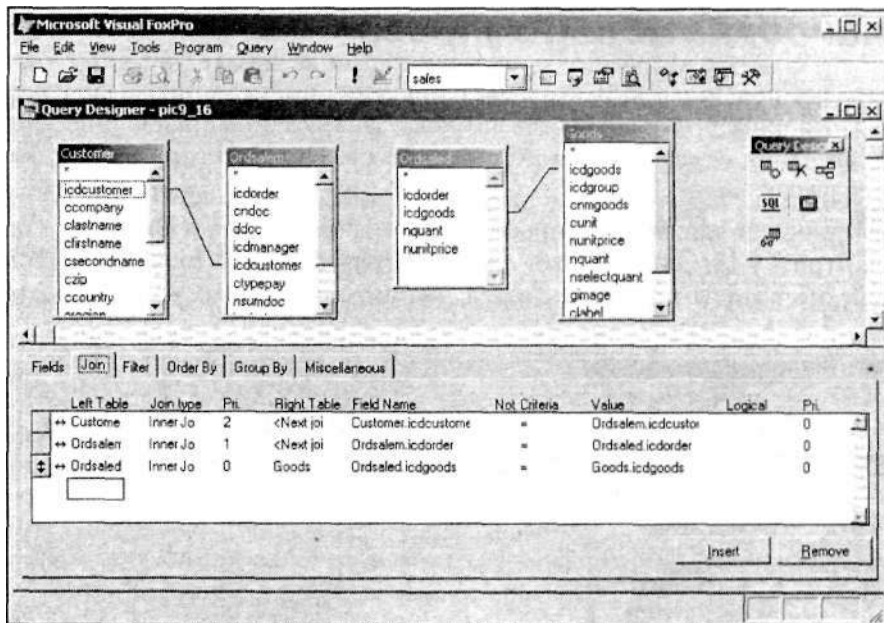
Customer, Ordsalem, Ordsaled
Ordsaled

- 1.
- 2. Customer, Ordsalem, Ordsaled
Goods.

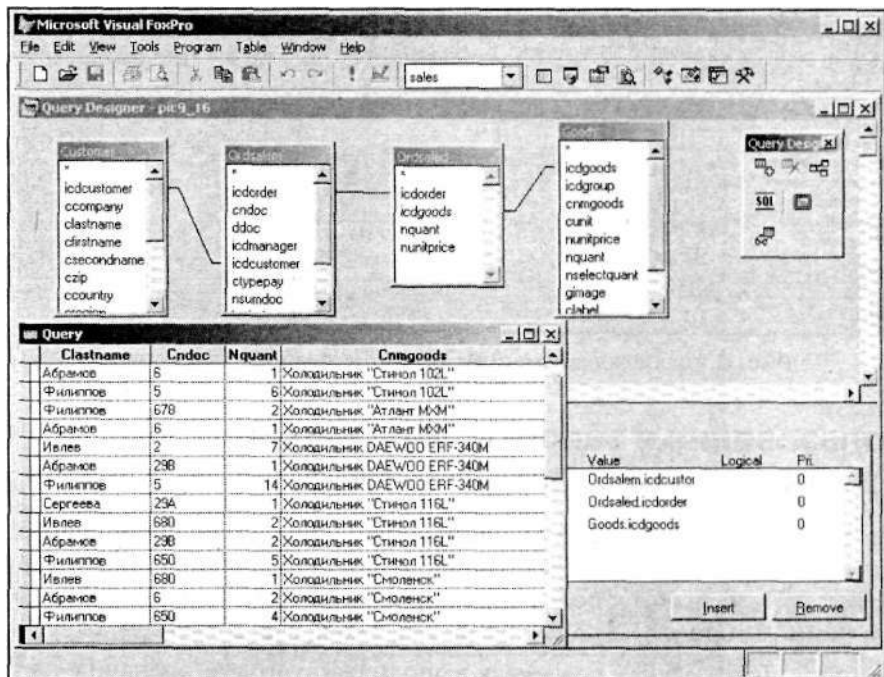
Join ()
(. 9.16).

3. **Selected fields** () **Fields** ()

4. **Run** (),
(. 9.17),

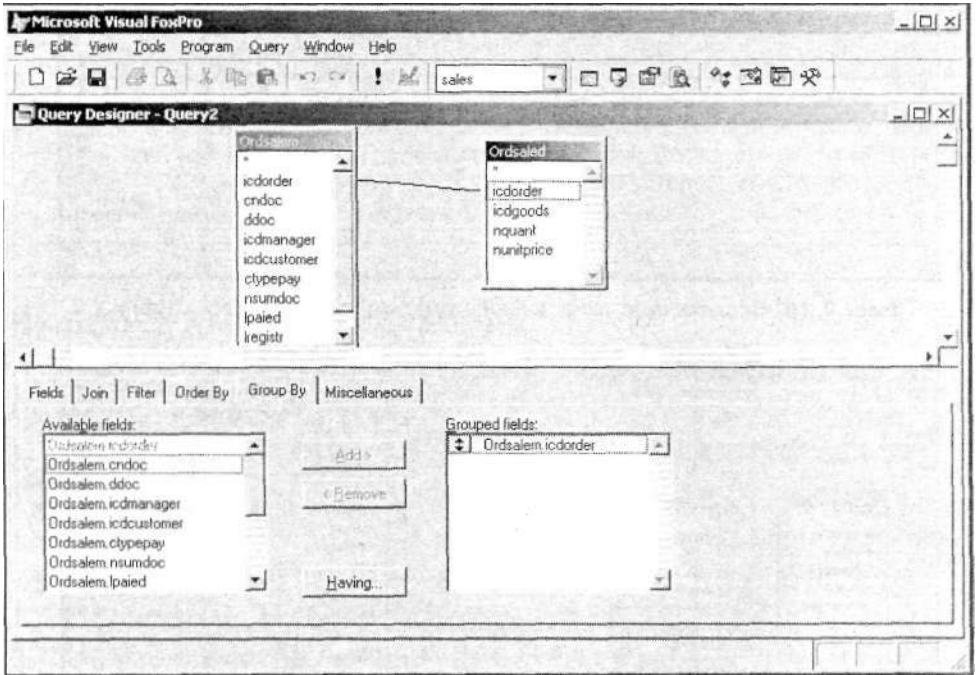


. 9.16. Join



. 9.17.

Group By () (. 9.18), Grouped fields ()



. 9.18. Group By

COUNT(),

, Visual FoxPro

Ordsalem Ordsaled,

. 9.4.

9.4.

COUNT()

MIN

AVG()

SUM()

Functions and

expressions () Fields ()

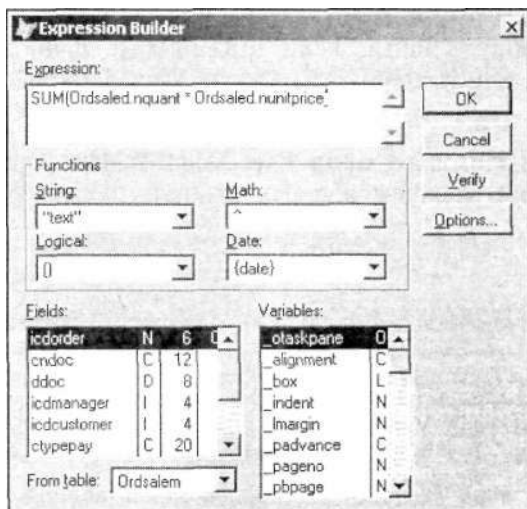
Expression Builder (

Expression (

(. 9.19),

Fields (

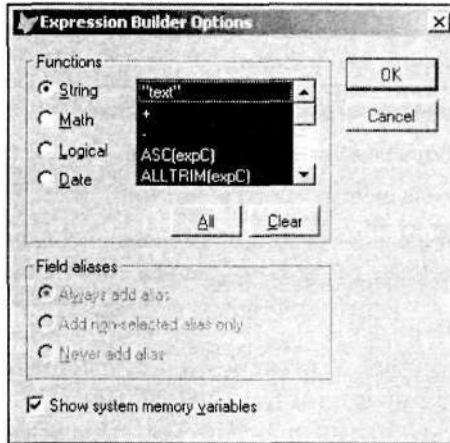
Functions (



. 9.19.

Expression Builder

Options ()
 Expression Builder Options () (. 9.20). -
 , -
 ,
 Functions (-
) Expression Builder ()



. 9.20. Expression Builder Options

1. Expression Builder Options () -
)
 2. Clear ()
 3. <Shift>, <Ctrl>
 ,
 4. Expression Builder Options () -
)
 . 9.5.

9.5.

Expression Builder Options

Always add alias ()
)
 Add non selected alias only () , Visual FoxPro -
)
 , Data Session

Never add alias (He - ,)

Show system memory variables ()

, . , . 9.6.

9.6.

+

*

/

Ordsaiem Ordsaled

1. Ordsalem Ordsaled.

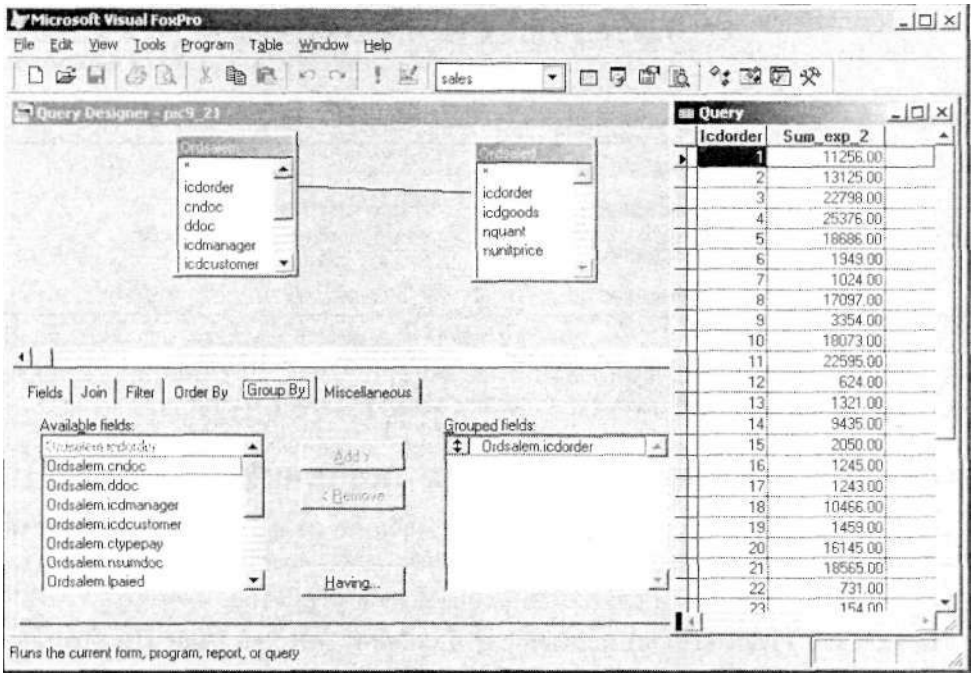
2. Fields () Selected fields ()
) icdOrder,

3. SUM.
Expression Builder () Functions and
expressions ().

4. Expression ()

SUM(Ordsaiem.nQuant * Ordsaiem.nUnitPrice)

5. Expression Builder
().
6. Selected fields
() Add ().
7. icdOrder
Group By () icdOrder
Grouped fields ().
8. Run (-
(. 9.21).



. 9.21 .

Visual FoxPro

Visual FoxPro.

AS,

AS,

Visual

FoxPro

- 1.
- 2.

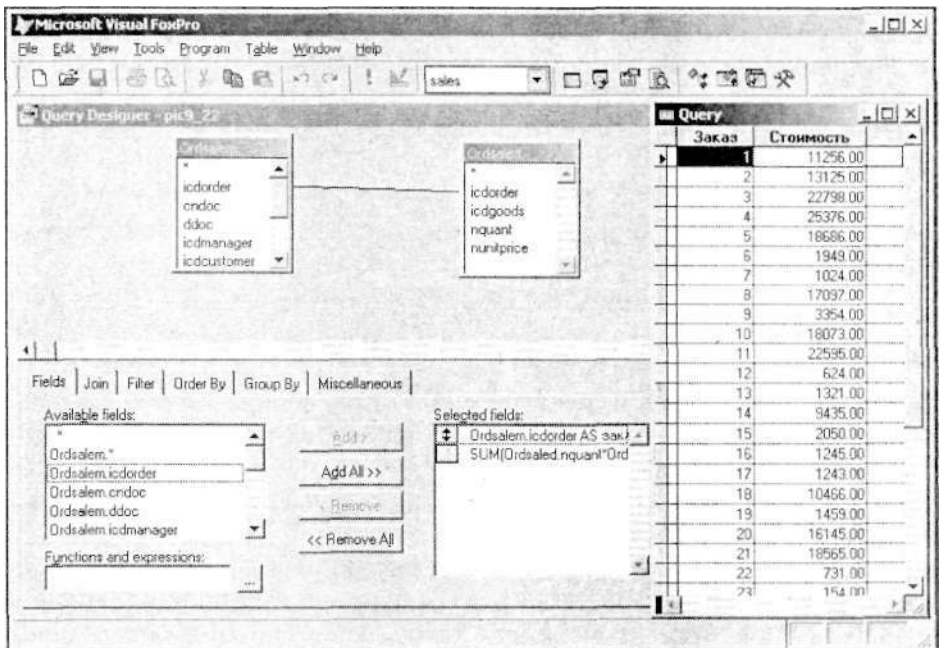
OrdSalem.icdOrder AS

- 3.

SUM(OrdSaled.nQuant * OrdSaled.nUnitPrice) AS

- 4.

(. 9.22).



Visual FoxPro

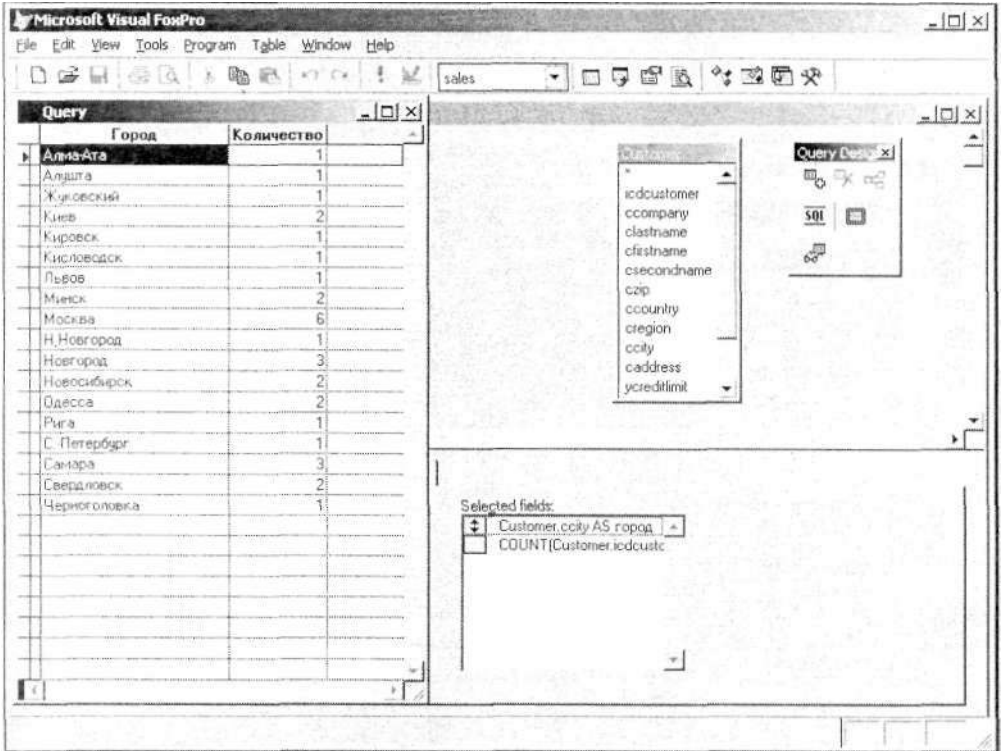
Visual FoxPro
Cross Tab Wizard (

).

(. 10.1).

Customer.

1. Data () Queries (-
) New ().
2. customer
3. Fields ()
Selected fields () cCity
COUNT (icdCustomer),
4. Group By () Order By ()
cCity.
5. Run Query () Query (-
)
6. CntCust,
Query Destination ()
Query Designer ().
(. . 10.1).



. 10.1.

SaieGoods,

. 2.

customer, OrdSaleM

OrdSaled

```
SELECT Customer.cCity AS      , Ordsaled.icdGoods AS      , ;
SUM(Ordsaled.nQuant*Ordsaled.nUnitprice) AS      ;
FROM Sales!Customer INNER JOIN Sales!Ordsaiem;
INNER JOIN Sales!Ordsaled ;
```

```

ON Ordsalem.icdOrder = Ordsaled.icdOrder ;
ON Customer.icdCustomer = Ordsalem.icdCustomer;
GROUP BY Customer.cCity, Ordsaled.icdGpods;
INTO TABLE SaleGoods.dbf

```

Город	Код товара	Сумма
Одесса	2109	6528.00
Новгород	2103	3675.00
Новгород	2106	9450.00
Свердловск	2107	10700.00
Свердловск	2110	5220.00
Новгород	2106	18900.00
Новгород	2108	1556.00
Новгород	2104	4320.00
Новгород	2104	820.00
Новгород	2105	1030.00
Новгород	2107	1070.00
Новгород	2103	1470.00
Новосибирск	2100	1649.00
Новгород	2304	438.00
Новгород	2307	1469.00
Новгород	2310	42.00
Одесса	2304	438.00
Одесса	2308	586.00
Н.Новгород	2103	735.00
Н.Новгород	2106	1350.00
Н.Новгород	2108	389.00
Н.Новгород	2109	2176.00

. 10.2. SaleGoods

. 10.2,

. 10.3

SaleGoods.

Salereg.

Microsoft Visual FoxPro

File Edit View Tools Program Table Window Help

sales

Query

Код товара	Алушта	Киев	Львов	Минск	Москва	Н Новгород	Новгород	Новосибирск
2100	NULL	5916.00	3698.00	3698.00	3698.00	1849.00	9245.00	1849.00
2101	NULL	10598.00	10598.00	5299.00	15897.00	10598.00	37093.00	NULL
2102	NULL	255.00	NULL	NULL	NULL	NULL	14211.00	NULL
2103	NULL	697.00	NULL	NULL	NULL	735.00	5145.00	NULL
2104	NULL	NULL	NULL	NULL	NULL	NULL	5740.00	NULL
2105	NULL	NULL	NULL	1878.00	NULL	NULL	3090.00	NULL
2106	NULL	NULL	NULL	NULL	NULL	1350.00	29700.00	NULL
2107	NULL	NULL	NULL	NULL	NULL	NULL	1070.00	1070.00
2108	NULL	NULL	NULL	NULL	399.00	399.00	1556.00	NULL
2109	NULL	NULL	NULL	NULL	2176.00	2176.00	NULL	NULL
2110	NULL	NULL	NULL	NULL	435.00	NULL	435.00	435.00
2300	NULL	NULL	NULL	NULL	369.00	NULL	NULL	NULL
2301	NULL	NULL	NULL	NULL	619.00	NULL	1857.00	NULL
2302	NULL	NULL	NULL	NULL	255.00	NULL	765.00	NULL
2303	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
2304	438.00	NULL	NULL	NULL	NULL	NULL	438.00	NULL
2306	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
2307	NULL	NULL	1469.00	NULL	NULL	NULL	1469.00	NULL
2308	293.00	NULL	NULL	NULL	NULL	NULL	NULL	NULL
2309	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
2310	NULL	NULL	NULL	NULL	NULL	NULL	42.00	NULL

Query Record: 1/21 Exclusive NUM

. 10.3.

Visual FoxPro

Cross Tab Wizard (

).

Visual FoxPro

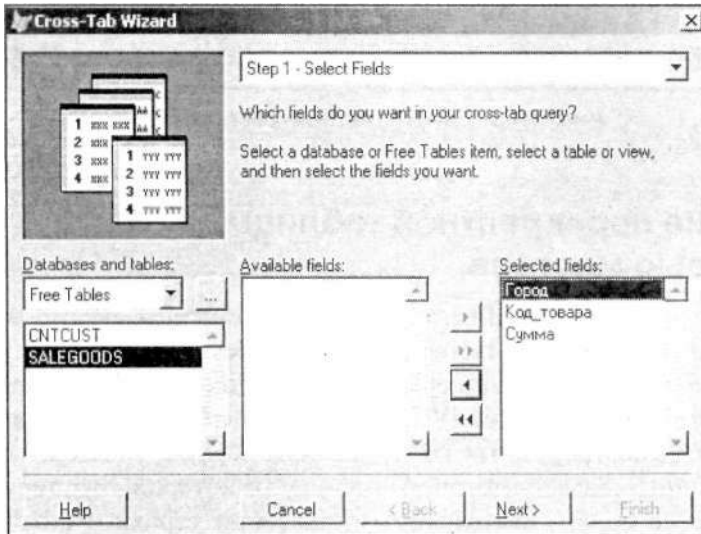
Vfpxtab.prg,
_GENXTAB.

SalegGods.

1. **File** () **New** ().
2. **Query** () **New** () **Wizard** ().
3. **Wizard Selection** () **Cross Tab Wizard** ().

Замечание

- Tools () Wizard (), — Query ().
 Wizard Selection ()
4. (. 10.4) SaieGoods
 Next ().



. 10.4.

5. (. 10.5)

6. Cross Tab Wizard (-
) (. 10.7) , -
 (. 10.1).

10.1.

Summary

Sum ()

/

Count ()

/

Average ()

/

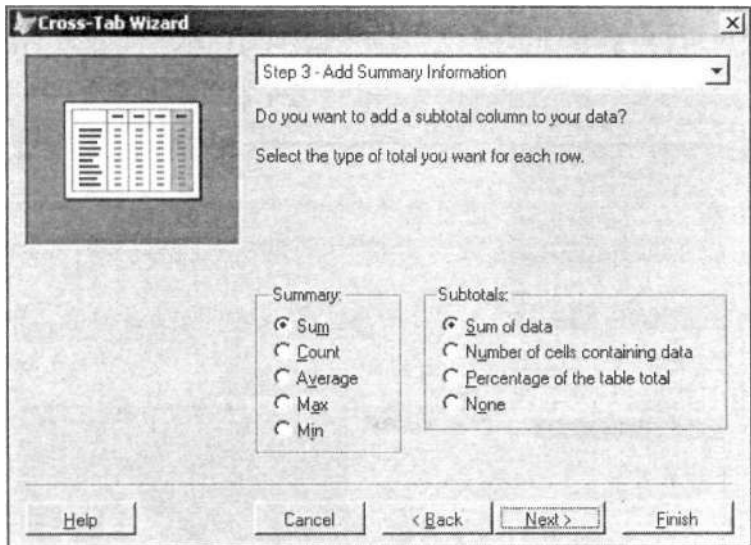
()

/

Min ()

/

Sum.



. 10.7.

7.

,

(. . 10.7).

(. 10.2).

10.2.

Subtotals

Sum of data ()

Number of cells containing data ()

Percentage of the table total ()

None ()

Percentage of the table total ()

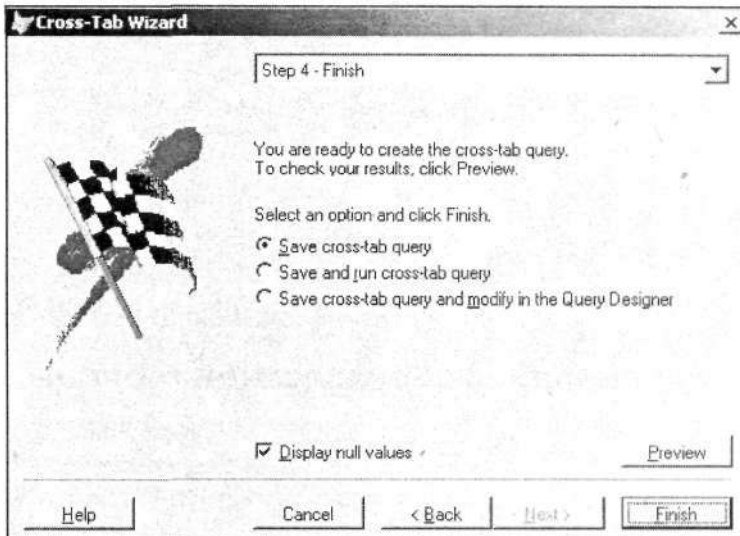
).

Next ()

8.

(. 10.8)

Preview ()



. 10.8.

9.

. 10.3.

10.3.

Cross Tab Wizard — Step 4

Save cross tab query (-) -

Save and run cross tab query (-) -

Save cross tab query and modify in the Query Designer (-) -

Finish () -

SQL Query () View
SQL (SQL).

Browse ():

```
SELECT SaleGoods. , SaleGoods. , SIM(SaleGoods. );
FROM 'SaleGoods.DBF' SaleGoods;
GROUP BY SaleGoods. , SaleGoods. ;
ORDER BY SaleGoods. , SaleGoods. ;
INTO CURSOR SYS(2015)
DO (_GENXTAB) WITH 'Query',.t.,.t.,.t.,,,.t.,,2,.t.
BROWSE NOMODIFY
```

. 10.3.

VFPXTAB.PRG.

(. 10.4).

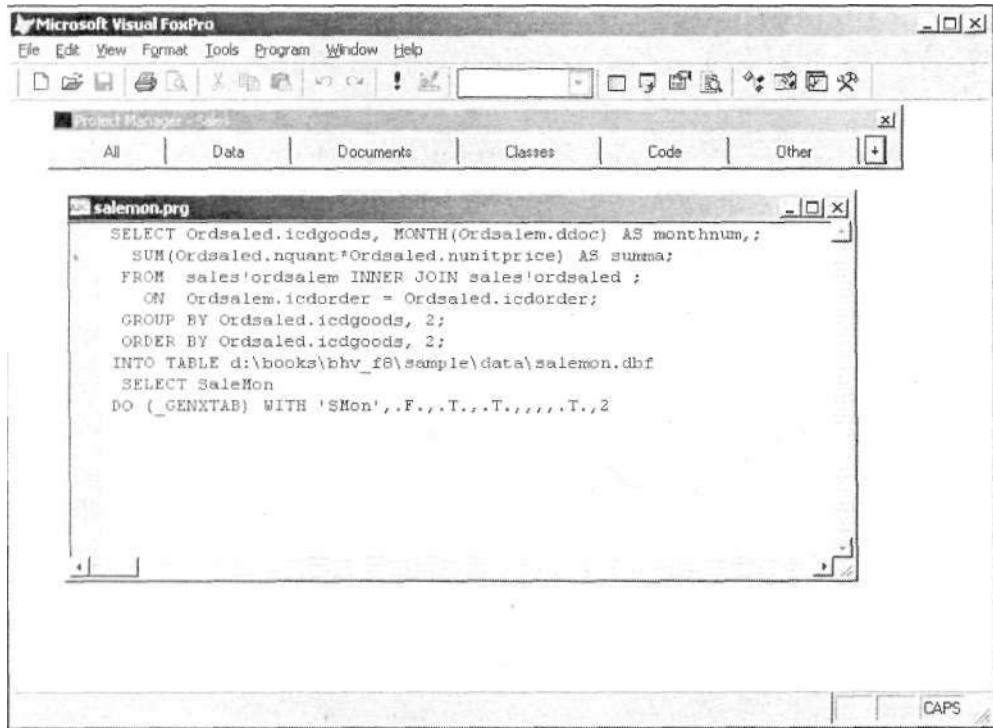
7.

:

SELECT SaleMon

DO (_GENXTAB) WITH 'SMon',.F.,.T.,.T.,.,.,.T.,2

, . 10.9.



. 10.9.

8.

Salemon.prg

Smon

(. 10.10).

COBET

Microsoft Visual FoxPro

File Edit View Tools Program Table Window Help

Smon						
lcdgoods	N 1	N 10	N 11	N 12	Percent	
2100	3698.00	1849.00	5547.00	31802.00	13.414	
2101	8997.00	10598.00	15697.00	105980.00	44.238	
2102			1579.00	17624.00	6.005	
2103		735.00	5145.00	637.00	2.057	
2104			5740.00	4100.00	3.077	
2105	1030.00		1030.00	5998.00	2.520	
2106		1350.00	28350.00	5869.00	11.122	
2107			12840.00	2140.00	4.684	
2108		389.00	1556.00	1167.00	0.973	
2109	6528.00	2176.00		4352.00	4.083	
2110			5655.00	1305.00	2.176	
2300	1107.00			369.00	0.462	
2301				4333.00	1.355	
2302	510.00			1020.00	0.478	
2303	697.00				0.218	
2304	1314.00		438.00	1752.00	1.096	
2306	469.00			469.00	0.293	
2307	1469.00		1469.00	1469.00	1.378	
2308				879.00	0.275	
2309	112.00			112.00	0.070	
2310			42.00	42.00	0.026	

CAPS

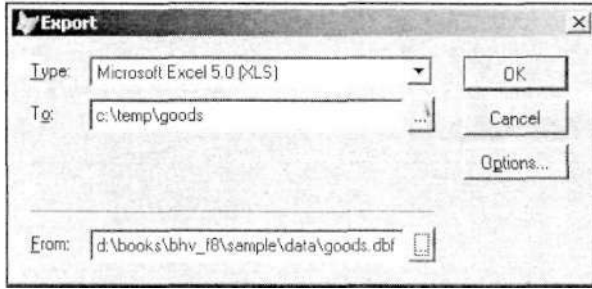
. 10.10.

Visual FoxPro

Microsoft

Excel, Lotus 1—2—3 . . .

Export () File
 ()
 Export () (. 10.11), ()
 From () — , () ,



. 10.11.

Export

Visual FoxPro,

Visual FoxPro

Visual FoxPro

Microsoft

Graph,

WZGRAPH.APP.

Graph Wizard

CntCust,

WZGRAPH.APP.

Microsoft Graph

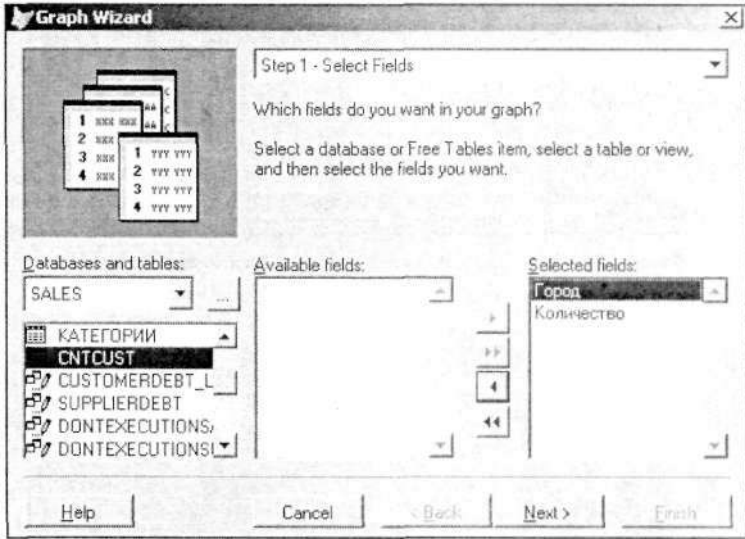
1. **File** () **New** ().
2. **Query** () **New** () **Wizard** ().
3. **Wizard Selection** () **Graph Wizard** ().

4.

CntCust

(. 10.12).

Совет



. 10.12.

Next ().

5.

(. 10.13)

Axis (),

Data

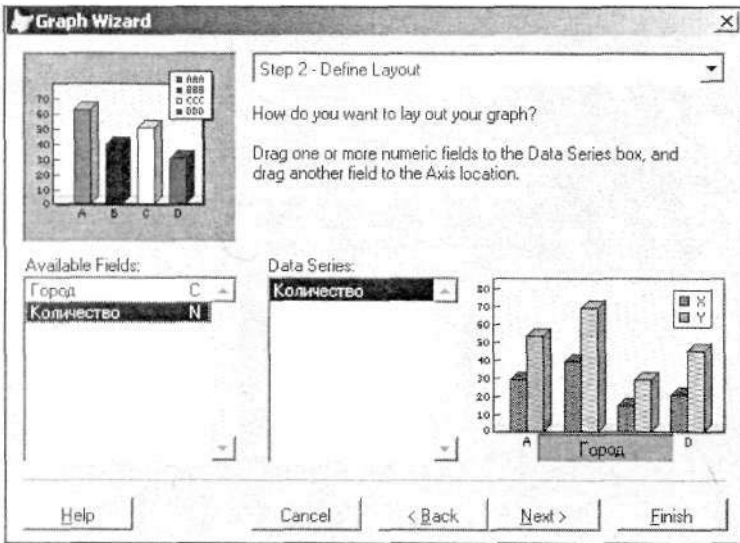
Series ()

Next ().

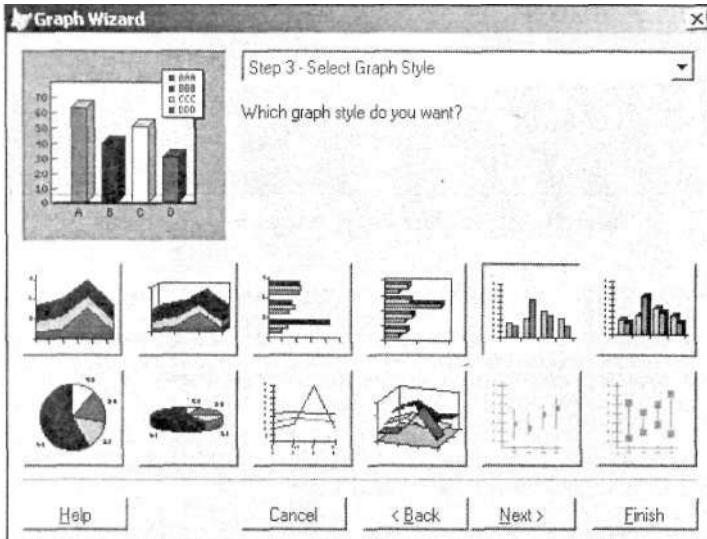
6.

(. 10.14),

Next ().



. 10.13.



. 10.14.

7.

(. 10.15)

).

(Preview (-

),

(. 10.5),

10.5.

Graph Wizard — Step 4

Save graph to a form (-)

Save graph to a table (-)

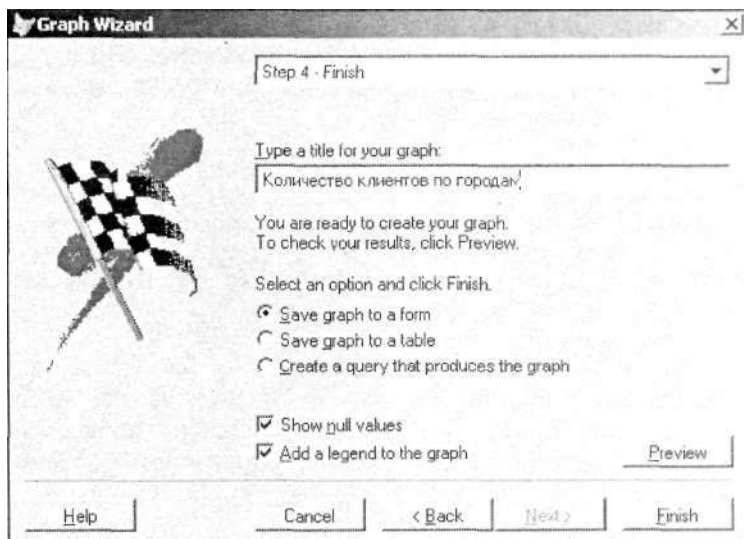
General

Create a query what produces the graph (; -)

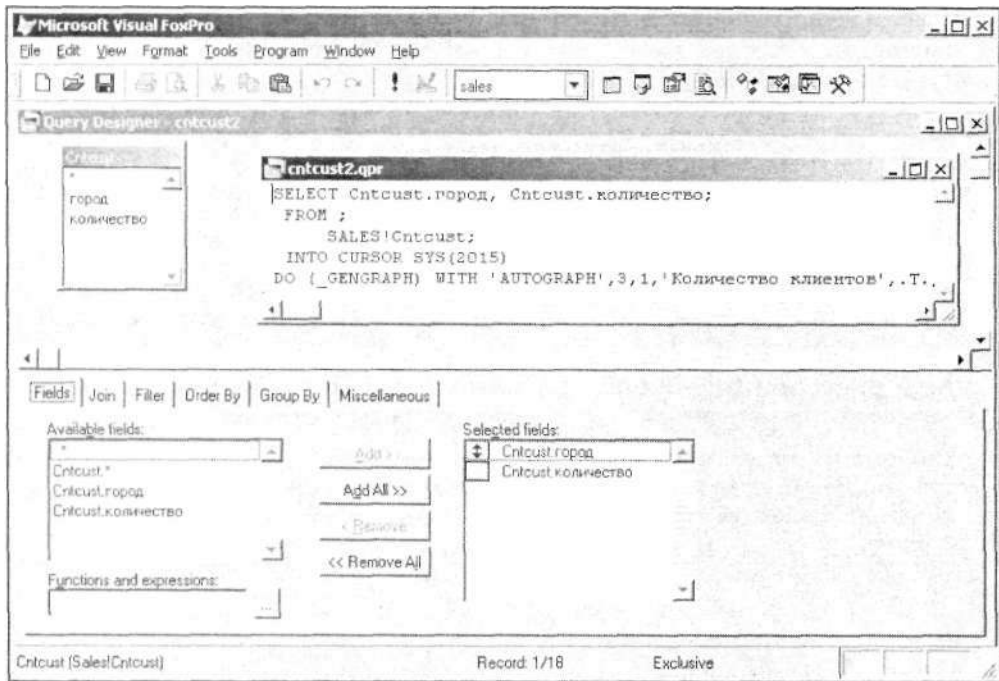
Finish ().

SELECT

(. 10.16).



. 10.15.



. 10.16.

8.

9.

Microsoft Graph,

. 10.17

Совет

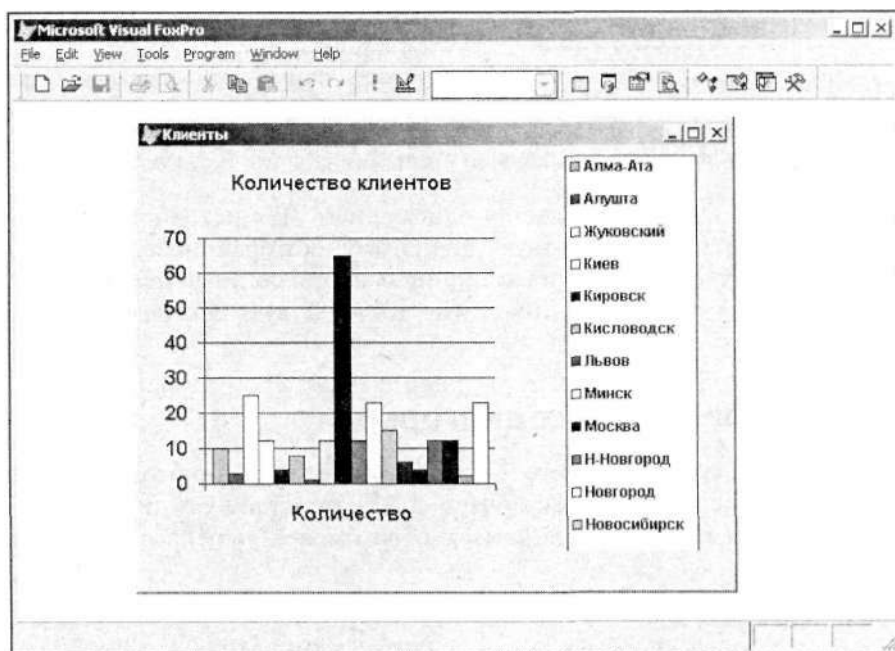
_GENGRAPH.
wzgraph.app,

_GENGRAPH = 'C:\Program Files\Microsoft VisualFoxPro 8\ Wizards\wzgraph.app

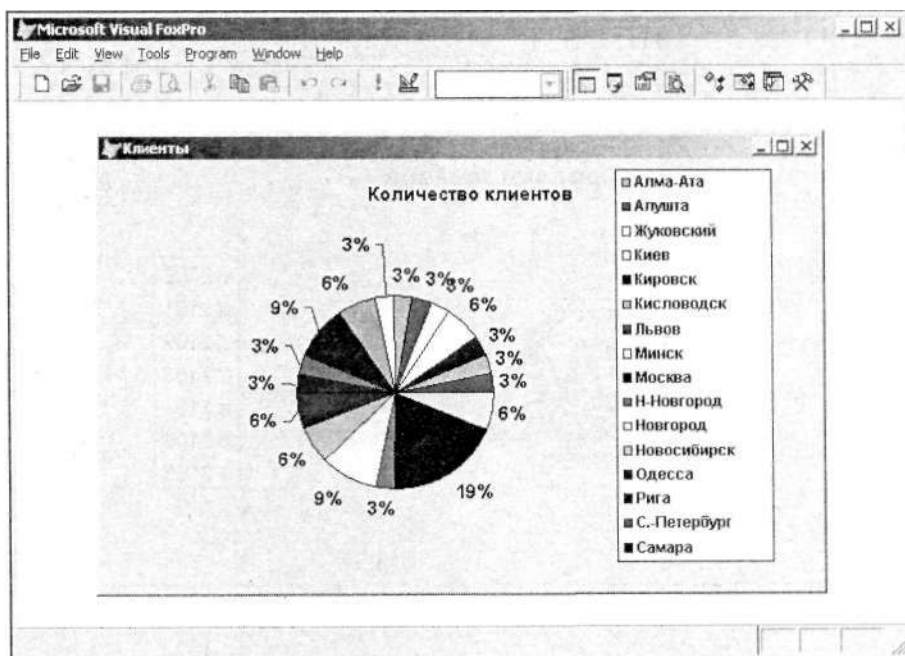
Microsoft

Graph

Object,



. 10.17.



. 10.18.

Замечание

(. 10.18).

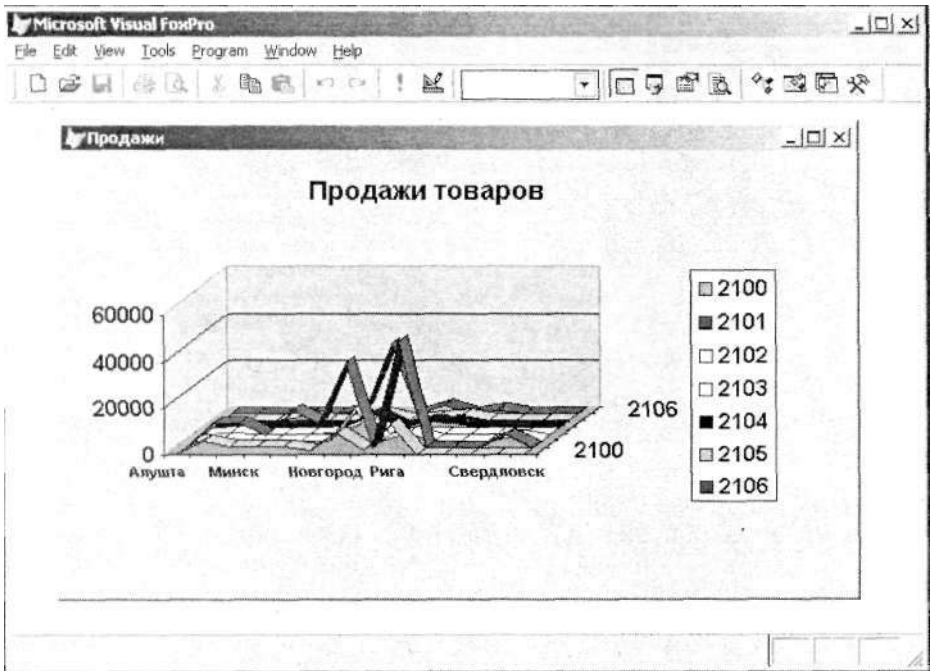
CntCust

. 10.18,

Salereg.

1.

Graph Wizard ().



. 10.19.

Salereg

2. Salereg , - ,
Next
- ().
3. , — **Data Series** (,). **Axis** (),
4. **Next** ()
5. : . 10.19.

FoxPro, Visual
Windows.
Visual FoxPro

- 1.
- 2.
- 3.
4. **Menu** (). **Generate** ()

Замечание

Preview ()

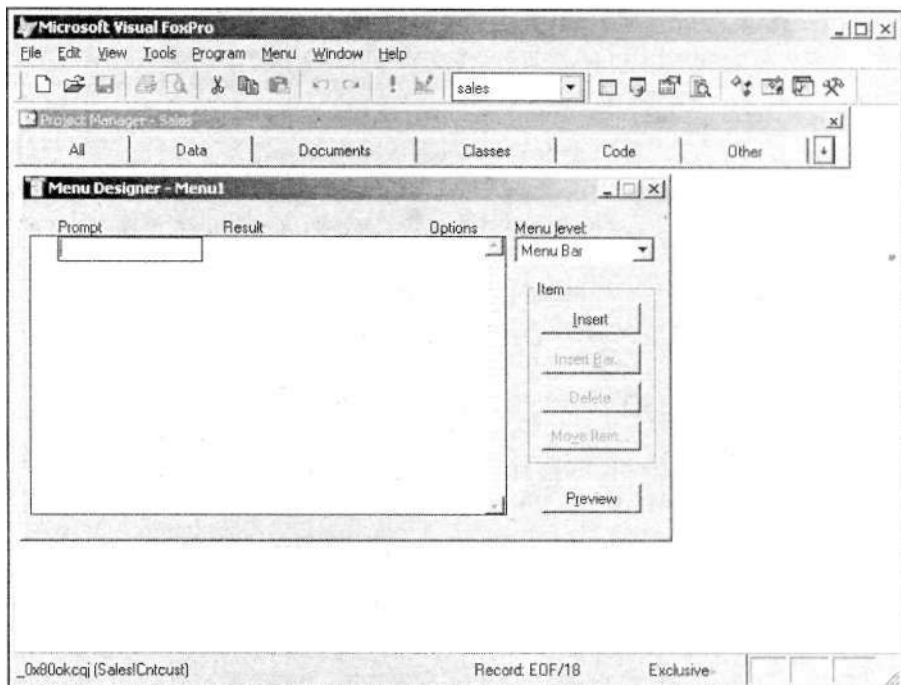
- **File** () **New** ().
New **Menu** ()
- **New File** ().
- **Menus** (). **Other** () **New** ()
- **Menus** () **New** ()
() Visual FoxPro.

New () Menu ()
 New File ().
 New Menu (),
 (. 11.1):



. 11.1. New Menu

- Menu —
- Shortcut —



. 11.2.

Visual FoxPro

Menu () (. 11.2).

Menu ().

Prompt

(), **Result** () **Options** (),

Prompt ()

Result ()

Options () **Prompt**

Options (), (" " , ,).

Menu level ()

(. 11.1).

11.1.

Insert ()

Insert Bar ()

Insert System Menu Bar,
Visual FoxPro,

Delete ()

Move Item ()

Preview ()

1. **Prompt** ()
<Enter> < b>
Result ().
2. (. 11.2)

11.2.

Command

()

Pad Name

()

Submenu

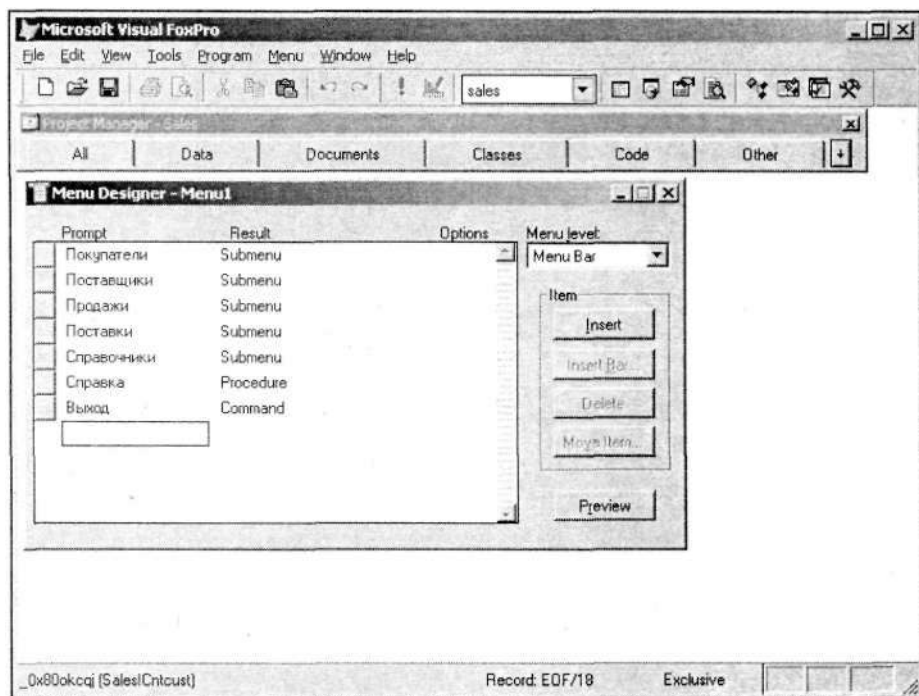
()

Procedure

()

Замечание

Command ()

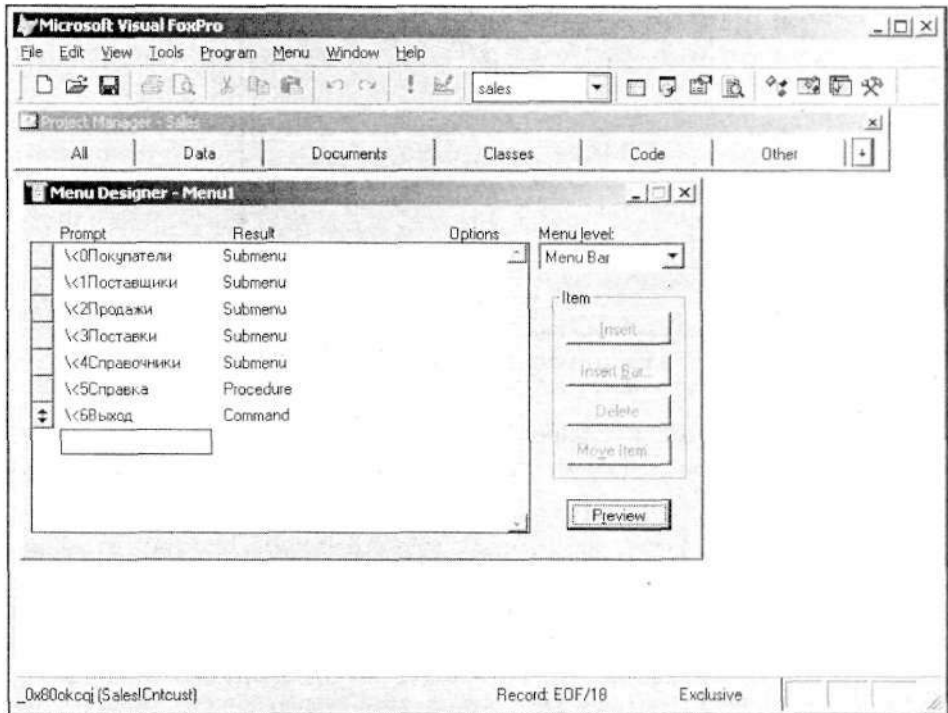


<Alt>

: \<

Предупреждение

Visual FoxPro



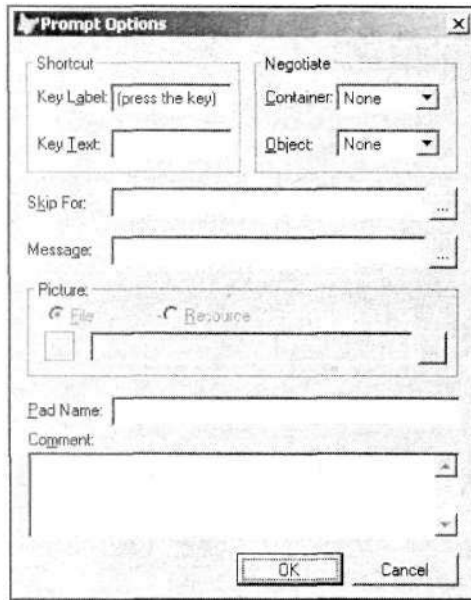
:" " (. 11.5).

Prompt Options

Options () (. 11.6).

Prompt
-

Options ().



. 11.6. Prompt Options

Shortcut (Prompt Options ()) (. 11.3).

11.3.

Prompt Options

Skip For ()

Message ()

11.3 ()

Pad Name ()

Comment ()

Negotiate ()

:

• Container () —

OLE ;

• Object () —

Active Document Web

Picture ()

" " , Visual FoxPro

Visual FoxPro

<F1>

1.

2.

Options ()

3.

Prompt Options ()

Shortcut () Key Label ()

press the key ()

Key Label ()

Key Text ()

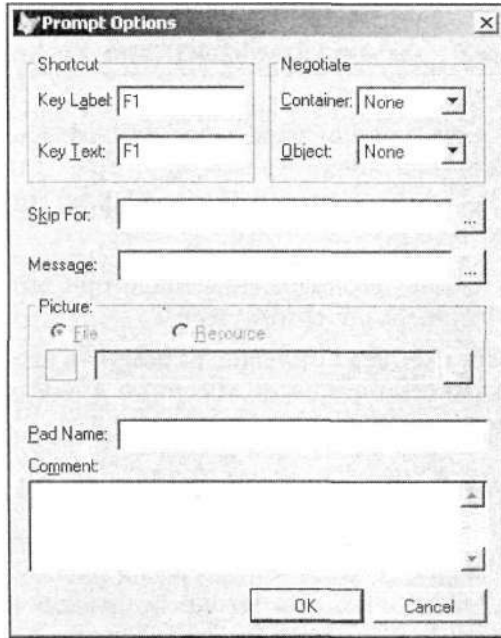
<F1>

Key Text

()

F1 (. 11.7).

4.



. 11.7.

Options (Message ()),

Prompt

Expression Builder (

1. **Options** ()

2. Prompt Options ()
Message (-)

3. " Message () "
"

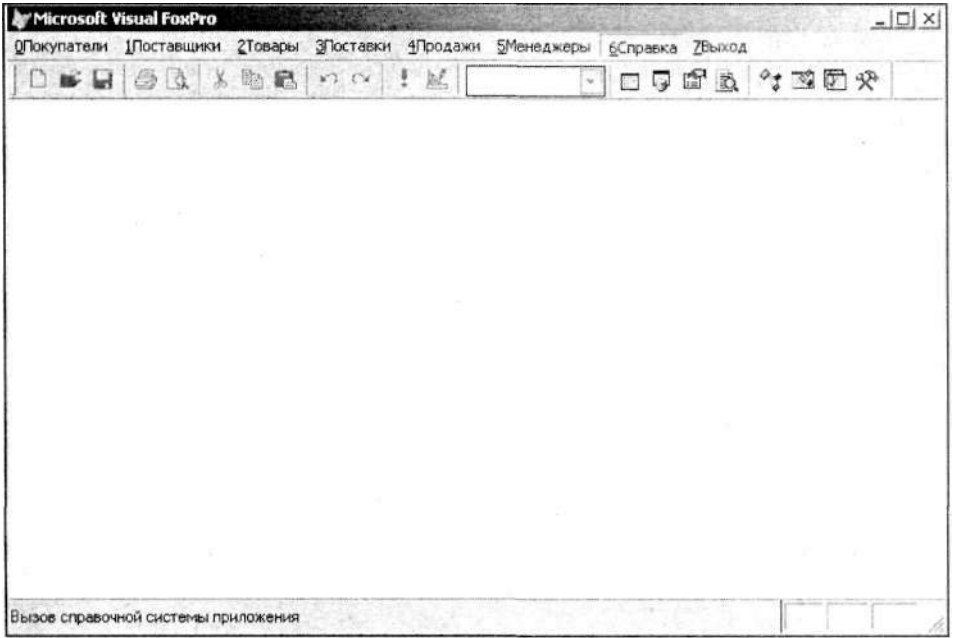
Замечание

4. () Expression Builder
Prompt Options (-)
Message () (. 11.8).

5.

. 11.8.

. 11.9



. 11.9.

- 1. Options () , -
- 2. Prompt Options () -
- Skip For (-
-).
- 3. .. Skip For () .
- 4. Expression Builder
 () Prompt Options (-
-).

Замечание

Skip For ()
)

Prompt Options (

5.

Visual FoxPro

Pad Name ()
)

Prompt Options (-

Prompt Options

Shortcut
Key Label: F1
Key Text: F1

Negotiate
Container: None
Object: None

Skip For: .T.

Message: "Вызов справочной системы"

Picture:
 File Resource

Pad Name: Help

Comment:

OK Cancel

. 11.10.

Prompt Options

. 11.10
)
,

Prompt Options (

(. 11.4).

11.4.

Submenu ()

Procedure ()

Command ()

1. **Result ()**
Command ().

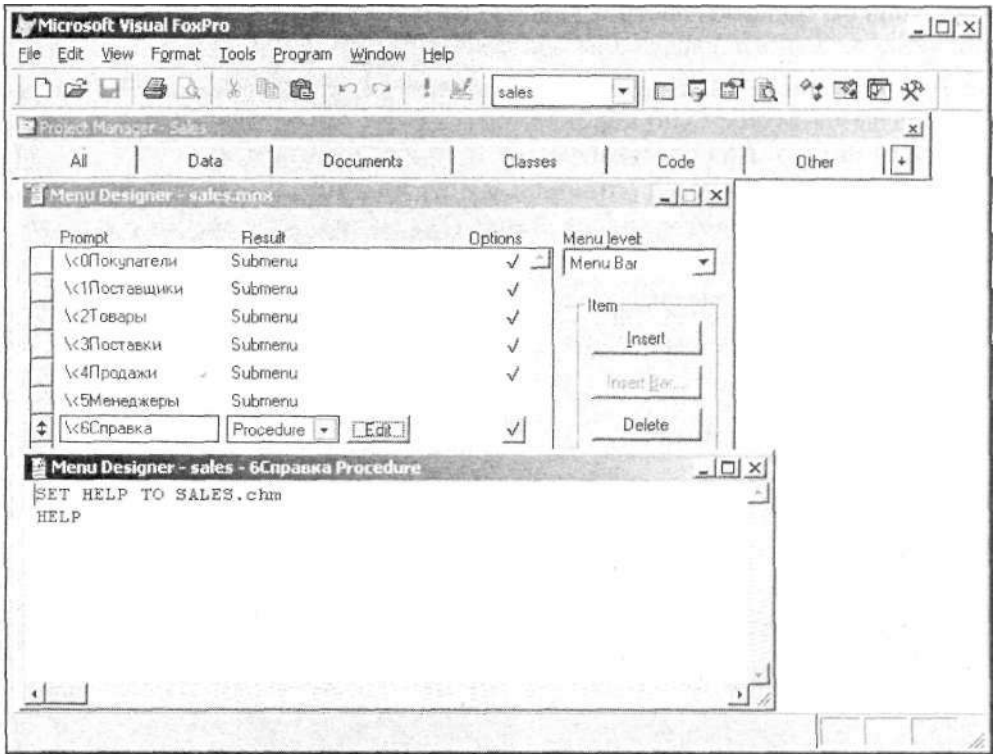
2. FoxPro, Visual

DO FORM Client

Result ()
Procedure ()
Create ()

Procedure ()

(. 11.11).



. 11.11.

Предупреждение

PROCEDURE, . . Visual FoxPro

FoxPro , Visual

Замечание

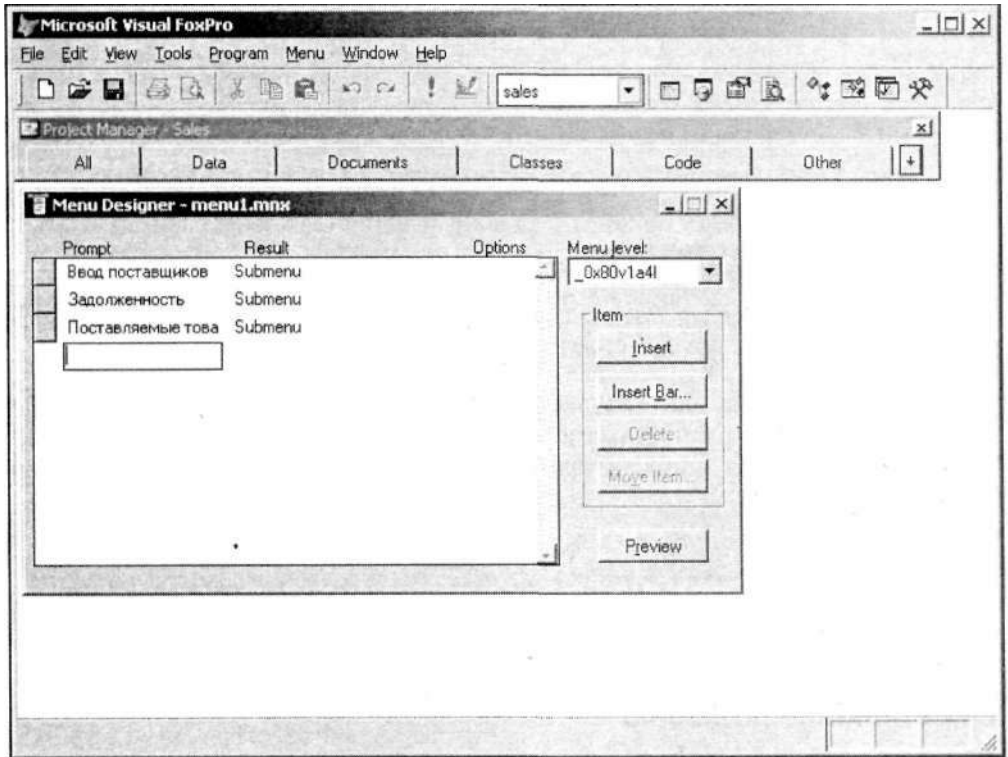
Edit ().

Create ()

1. **Create** () **Menu Level** ()
2. **Prompt** () **Result** (),
- 3.
4. (. 11.12).

Замечание

Menu Level.



Prompt ()

- 1.
- 2.
- 3.

Create ().

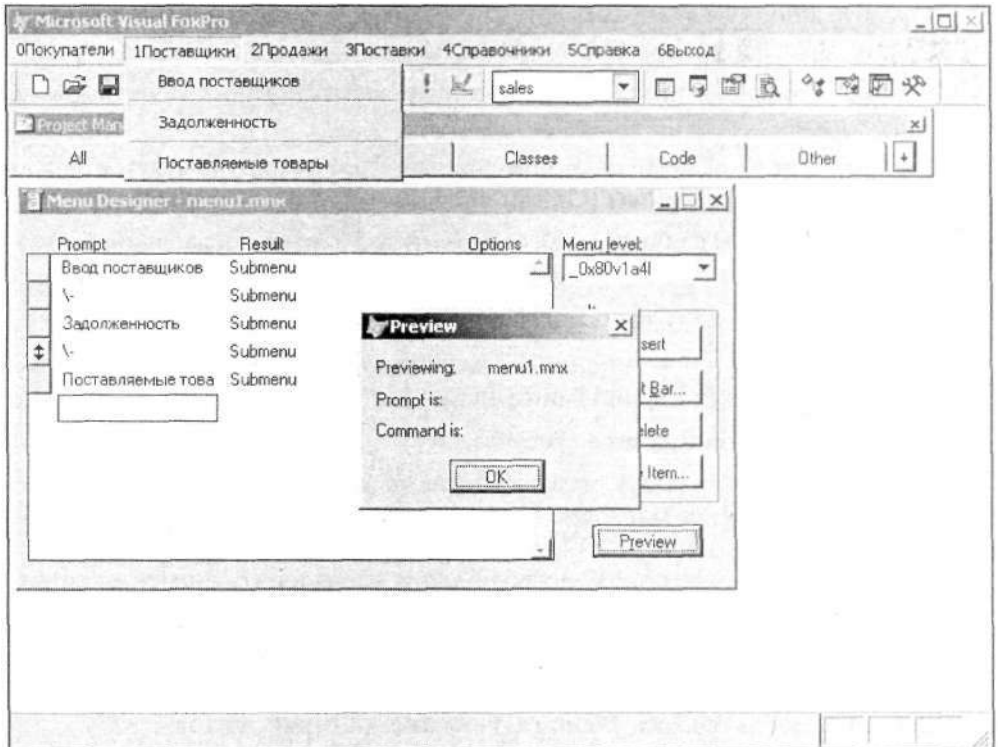
Insert

().

4. Prompt ()

New Item

() \.



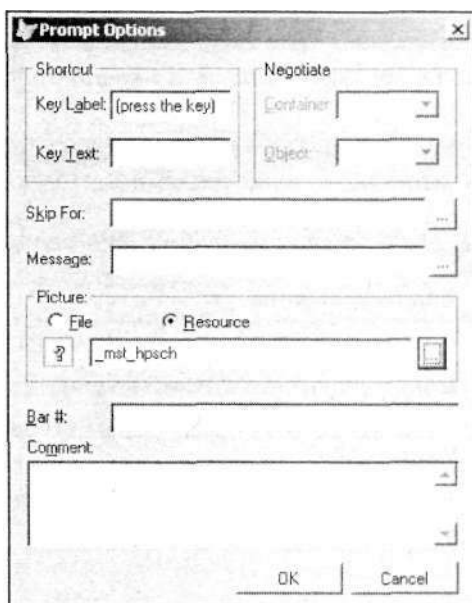
- 5. , -
- 6. **Preview** (). (. 11.13).

Visual FoxPro

- 1. .
- 2. **Result** () **Submenu** ().
- 3. **Create** () -
- 4. **Prompt** ()
- 5. **Options** (). **Prompt Options** (). -
- 6. **Picture** () , -
- **File** () — ;
- **Resource** () — Visual FoxPro , -
- 7. **Resource** ().
- 8. **Insert System Menu Bar** () (. 11.14). -
- 9. **Microsoft Visual FoxPro Help** -
- 10. **Picture** () (. 11.15). **Prompt Options** () -



11.14. Insert System Menu Bar



11.15. Prompt Options

General Options () (. 11.16),
General Options ()

View ().

. 11.16.

General Options

Location ()

(. 11.5).

11.5.

Location

General Options

Replace ()

Visual FoxPro

Append ()

Visual FoxPro

Before ()

Visual FoxPro

After ()

Visual FoxPro

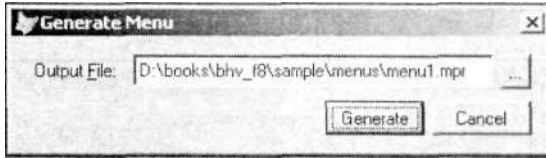
Procedure ()

Setup () **Cleanup** ()

Top Level Form ()

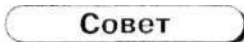
Visual FoxPro.

- File ().
- Save as (-
- Save as (-
- Save Menu As ()
- Preview () -
- 1. Menu () Generate (). -
- 2. Output File () Generate Menu () (. 11.17). -
- 3. Generate (-



. 11.17. Generate Menu

- Run ();
- Program () Do (). -
- Do () MPR -
- Do ().
- Visual FoxPro, General Options (-
-) Replace ().



Visual FoxPro,
SET SYSTEMENU TO DEFAULT.

Visual FoxPro

Prompt Options ().

1.

2.

Other ()

Menus ().

3.

New

4.

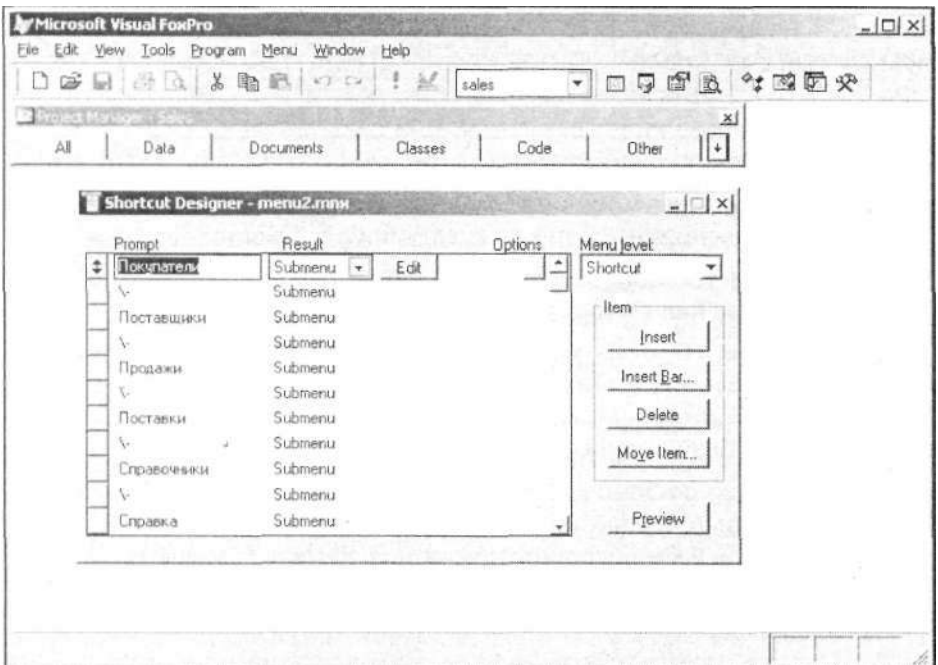
New Menu ()

Shortcut ().

5.

Prompt ()

(. 10.18).



. 11.18.

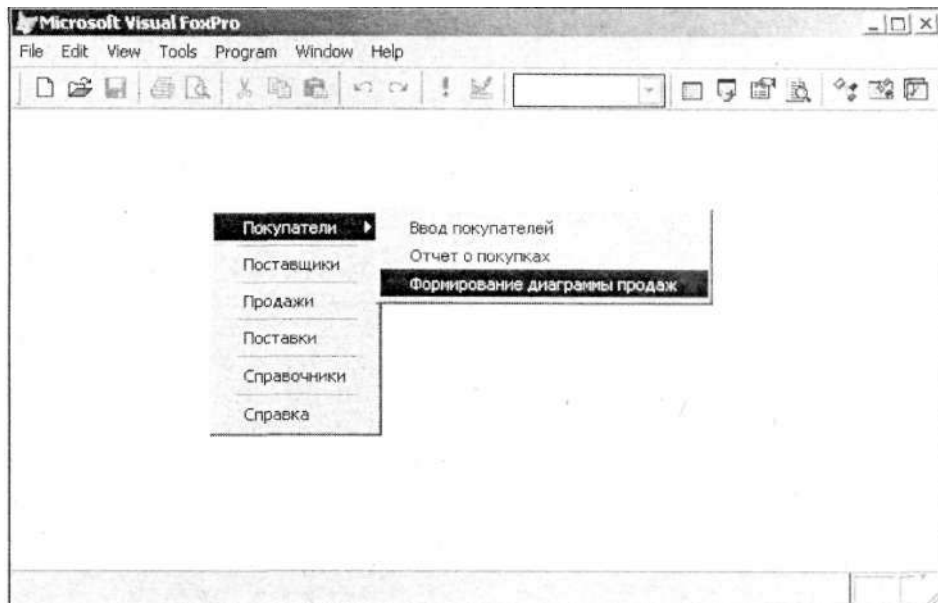
Shortcut

6. ().

Generate ()

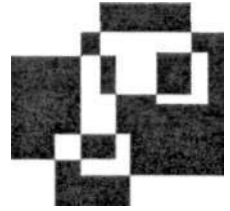
Menu

7. . 11.19.



. 11.19.

Shortcut



Visual FoxPro

Win Help HTML

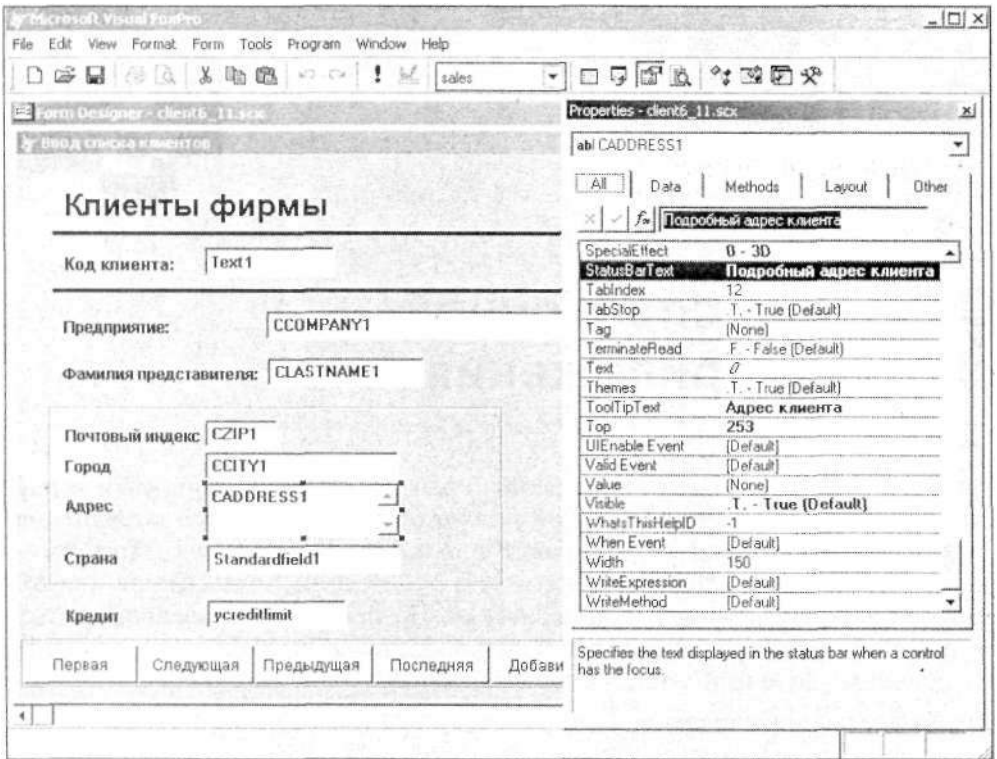
Visual FoxPro

StatusBarText ().

TooiTipText ().

12.1

Properties () StatusBarText ()
) TooiTipText ().



12.1.

MESSAGEBOX

MESSAGEBOX

MESSAGEBOX ([, [, [,]]])

CHR (13)

. 12.1 — 12.3.

12.1. ,

-
- 0 OK
 - 1 OK Cancel
 - 2 Abort, Retry, Ignore
 - 3 Yes, No, Cancel
 - 4 Yes, No
 - 5 Retry, Cancel
-

12.2. ,

-
- 16 **Stop**
 - 32
 - 48
 - 64 **(i)**
-

12.3. ,

-
- 0
 - 256
 - 512
-

MESSAGEBOX ,

. 12.4.

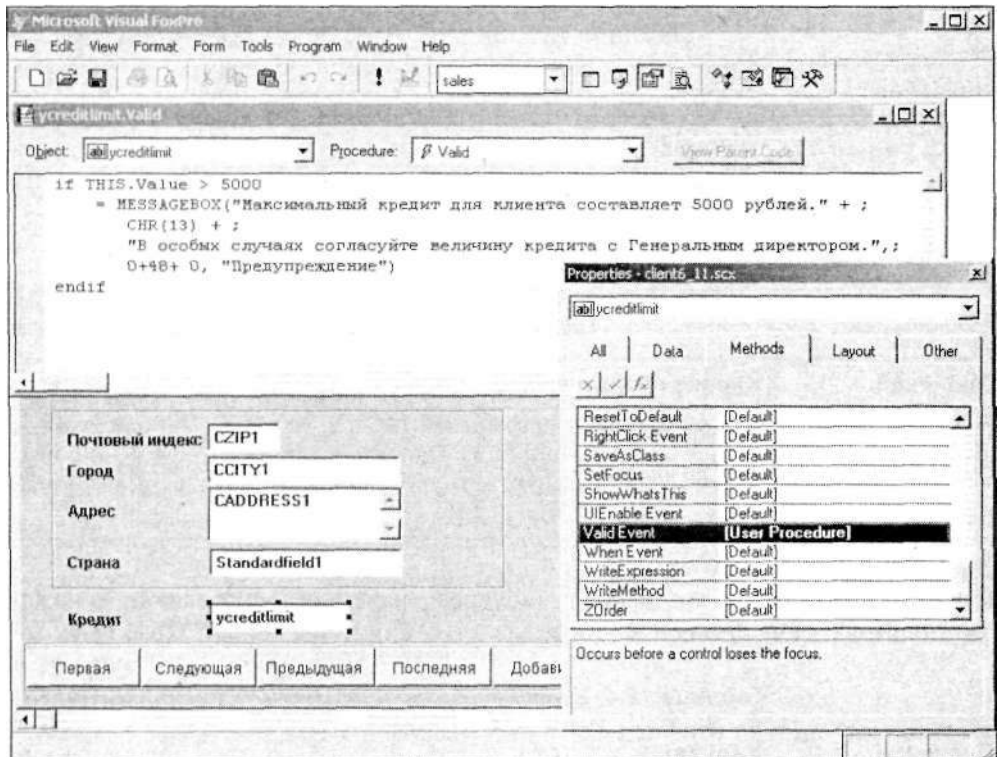
12.4. ,

MESSAGEBOX

-
- 1 OK
 - 2 Cancel
-

- | | |
|---|--------|
| 3 | Abort |
| 4 | Retry |
| 5 | Ignore |
| 6 | Yes |
| 7 | No |

1.



. 12.2.

Valid

2.

Valid

(. 12.2),

```

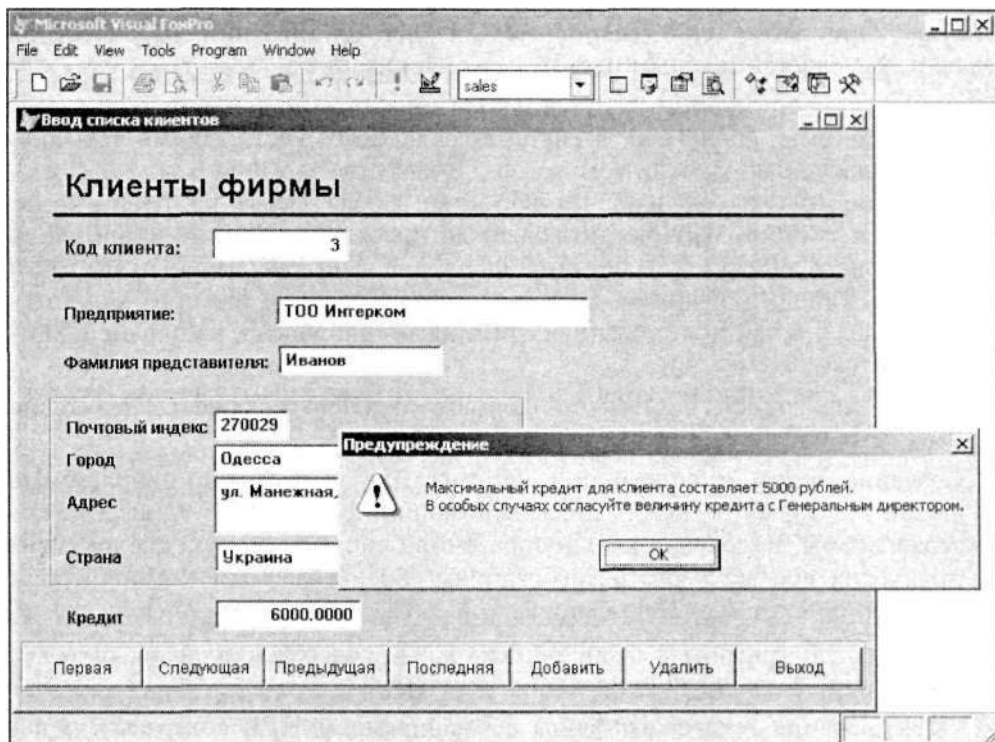
if THIS.Value > 5000
    = MESSAGEBOX("
    5000 . " + ;
    CHR(13) + ;
    "
    .",;
    0+48+ 0, " ")
endif

```

3.

5 000,

(. 12.3).



. 12.3.

WinHelp

Windows

WinHelp

1.

RTF.

(Help Compiler).

2.

CNT,

3.

HPJ,

- 4. Compiler. Help
- 5. HeapContextID ,

Help Compiler. -

Замечание

ForcHelp, -

Word. RTF. Microsoft

<Ctrl>+<Enter>.

(. 12.4).

Microsoft Word

1.

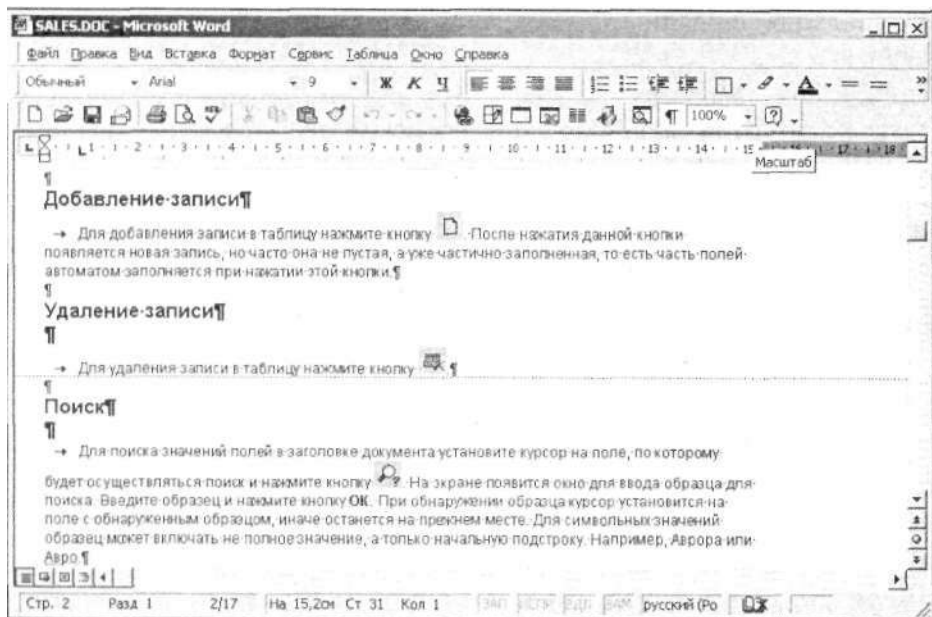
2.

3.

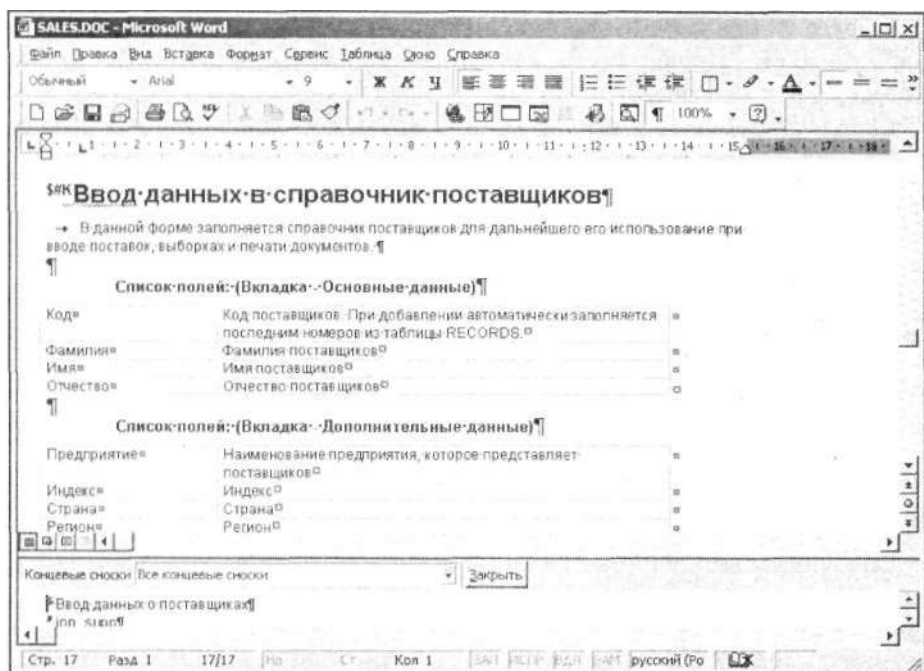
\$. ,

4.

(. 12.5).



. 12.4.



. 12.5.

Предупреждение

128

#.

:

(.)

(_);

255

;

:

;

SALES.DOC - Microsoft Word

Файл Правка Вид Вставка Формат Сервис Таблица Окно Справка

Обычный Arial 9 Ж К У

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Ввод данных в справочник покупателей

→ В данной форме заполняется справочник покупателей для дальнейшего его использование при вводе покупок, выборках и печати документов.

Список полей: (Вкладка - Основные данные)

Код*	Код покупателя. При добавлении автоматически заполняется последним номером из таблицы RECORDS	*
Фамилия*	Фамилия покупателя	*
Имя*	Имя покупателя	*
Отчество*	Отчество покупателя	*

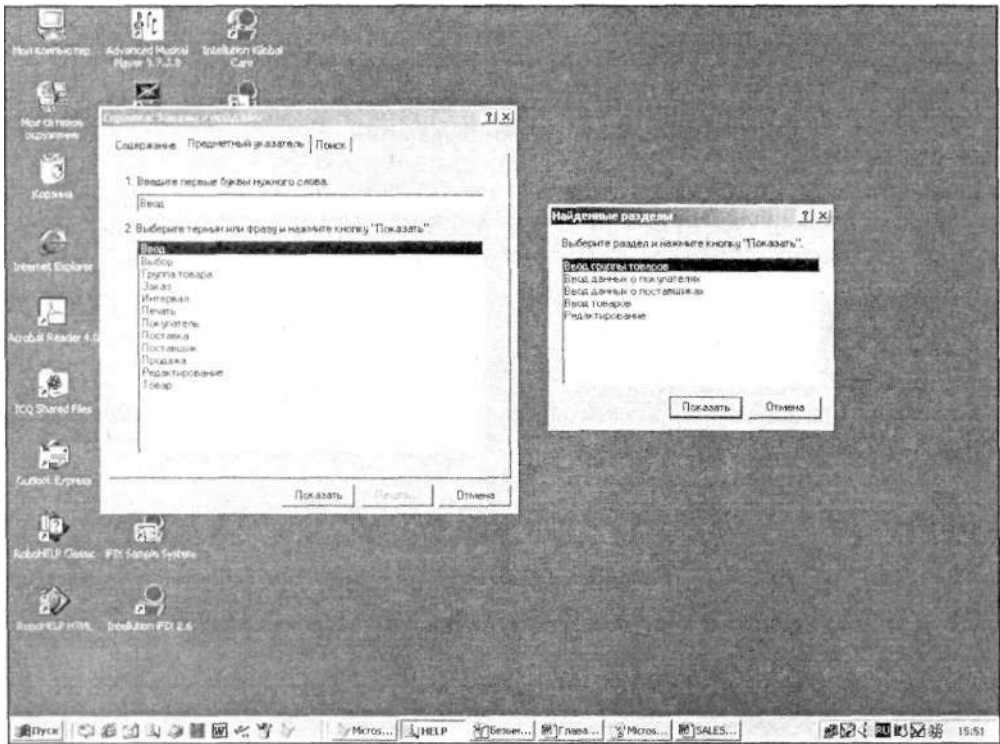
Список полей: (Вкладка - Дополнительные данные)

Предприятие* Наименование предприятия, которое представляет покупатель *

Концевые сноски Все концевые сноски

К Покупатель, Ввод
* Ввод данных поставщика

Стр. 17 Разд. 1 17/17 № Ст Кол 18 [SAF] [ИСП] [БДП] [ВМ] русский (Ро) [OK]



. 12.7.

- (); , -
- 255 ;
- () ;
- , -

. 12.6

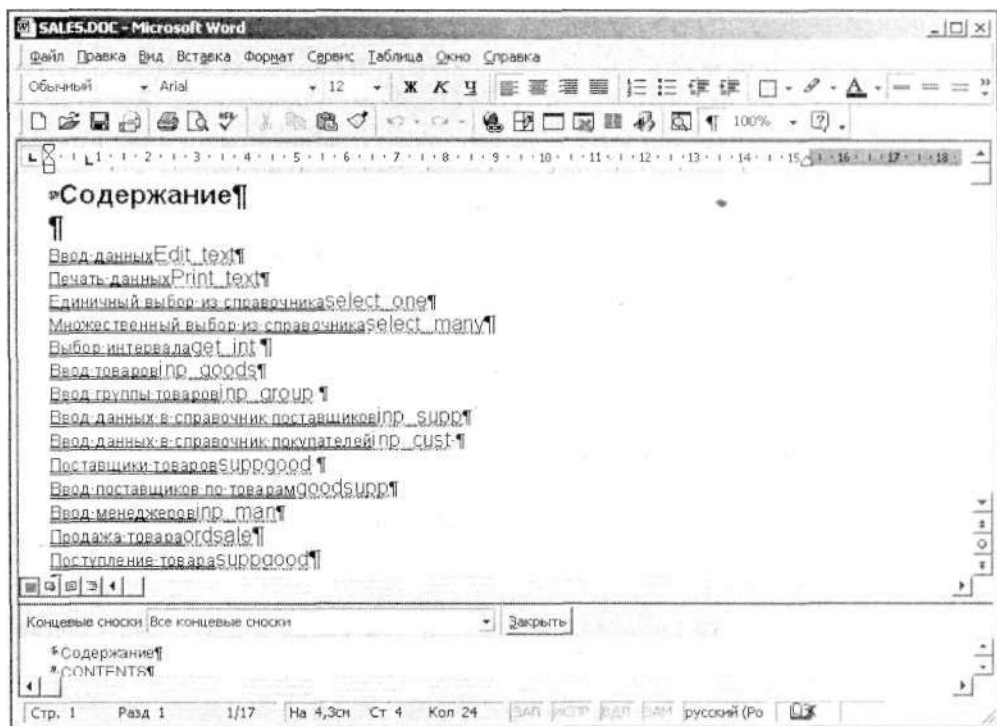
, . 12.7 —

Print_text.

(: print_text).

Замечание

(. 12.8).



. 12.8.

Замечание

. 12.5.

12.5.

[Files]

[Options]

[BuildTags]

[Alias]

[Map]

[Bitmaps]

[Files]

[Files]

RTF,

-

[Files]

SALES.RTF;

EDIT.RTF;

[Options]

• TITLE

32

• COMPRESS

True

False.

• WARNING

• FORCEFONT

FORCEFONT.

Замечание

FORCEFONT,

Windows.

TITLE

TITLE =

WARNING

WARNING =

. 12.6.

12.6.

WARNING

[Map]

[M]

HelpContextID

HLP.

Visual FoxPro

Help Workshop,

Help Workshop.

- 1.
- 2.

sales

Open ()

File () (. 12.9).

- 3.

[OPTIONS]

Options ().

Options ()

(. 12.10),

- 4.

Save and Compile (),

Compilation ().

Help Workshop.

- 1.
- 2.

File ()

Run Winhelp (Winhelp).

File ()

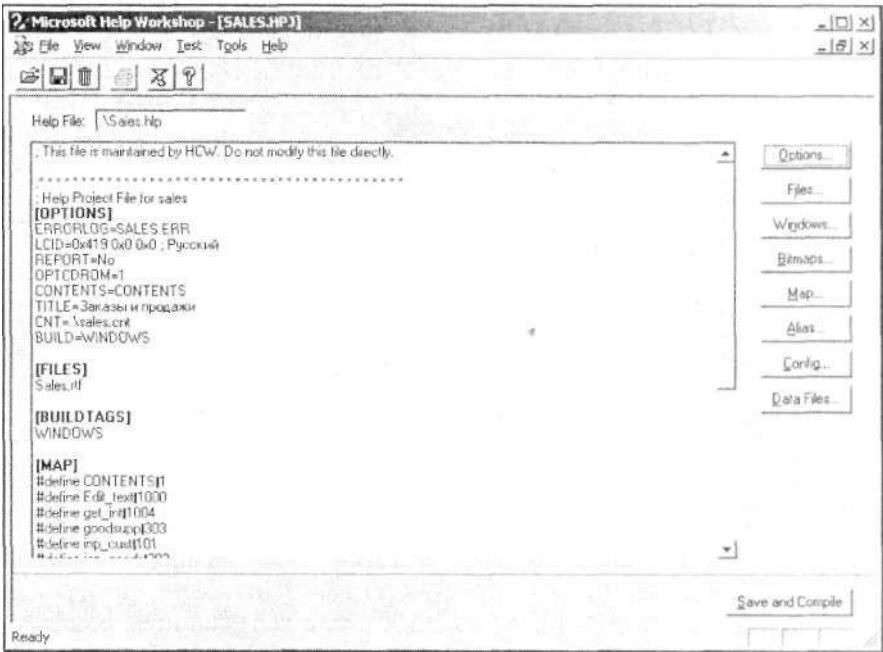
(. 12.11)

Browse (),

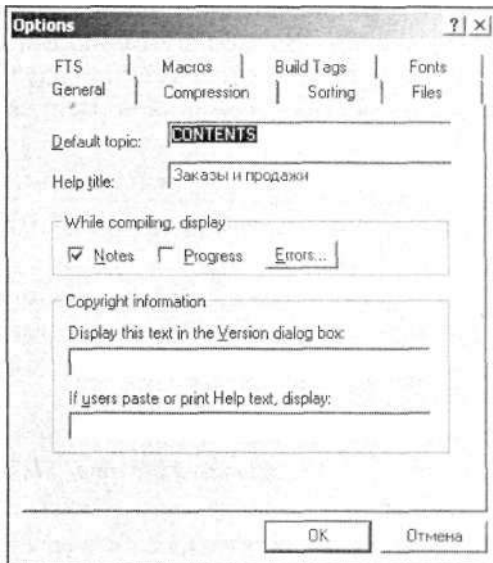
Mapped Topic IDs (

3.

),

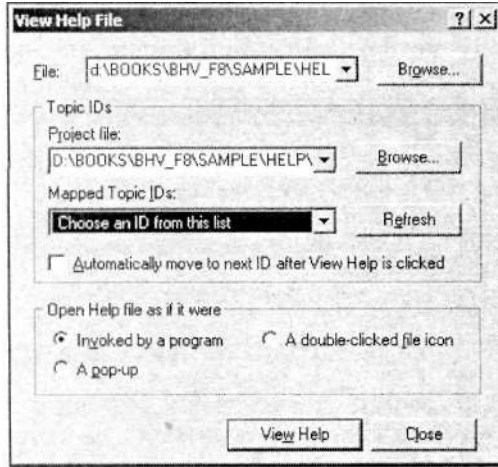


. 12.9.



. 12.10.

[OPTIONS]



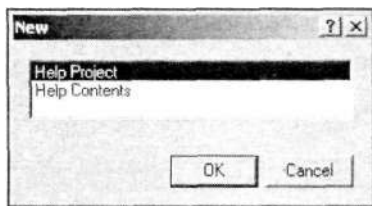
. 12.11.

. 12.8,

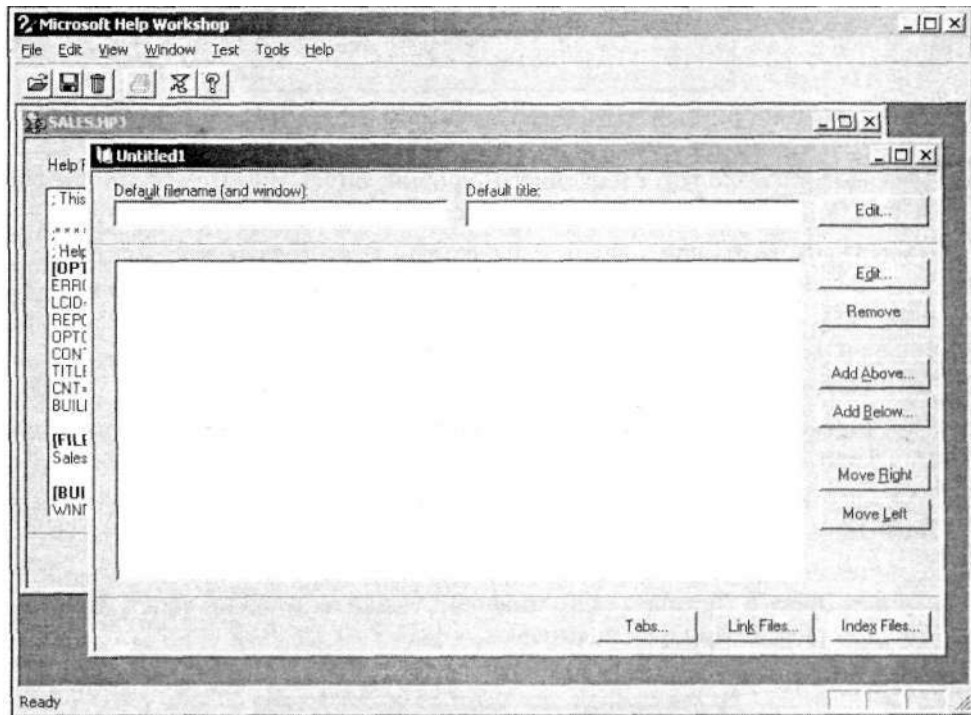
Windows

Help Workshop

1. **File** () **New** ().
2. **New** () **Help Contents** (-
3. , (. 12.12).
4. **Help Contents** ().
(. 12.13).
5. **Default filename (and window)** ()
6. **Default title** ()



. 12.12.



. 12.13.

6.

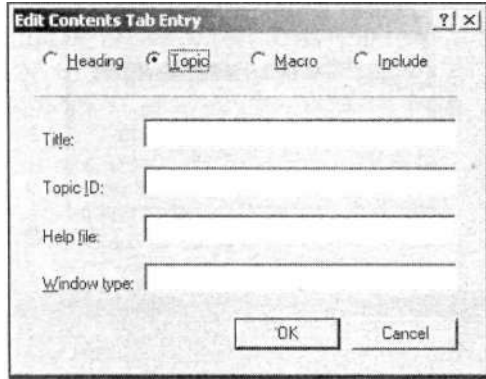
Below ().
Contents Tab Entry (. 12.14).

7. Heading ().

8. Title ()

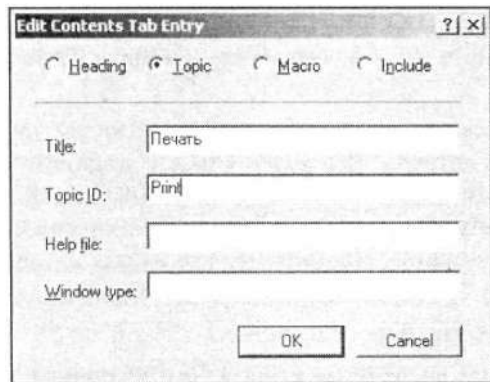
9.

Add
Edit



. 12.14.

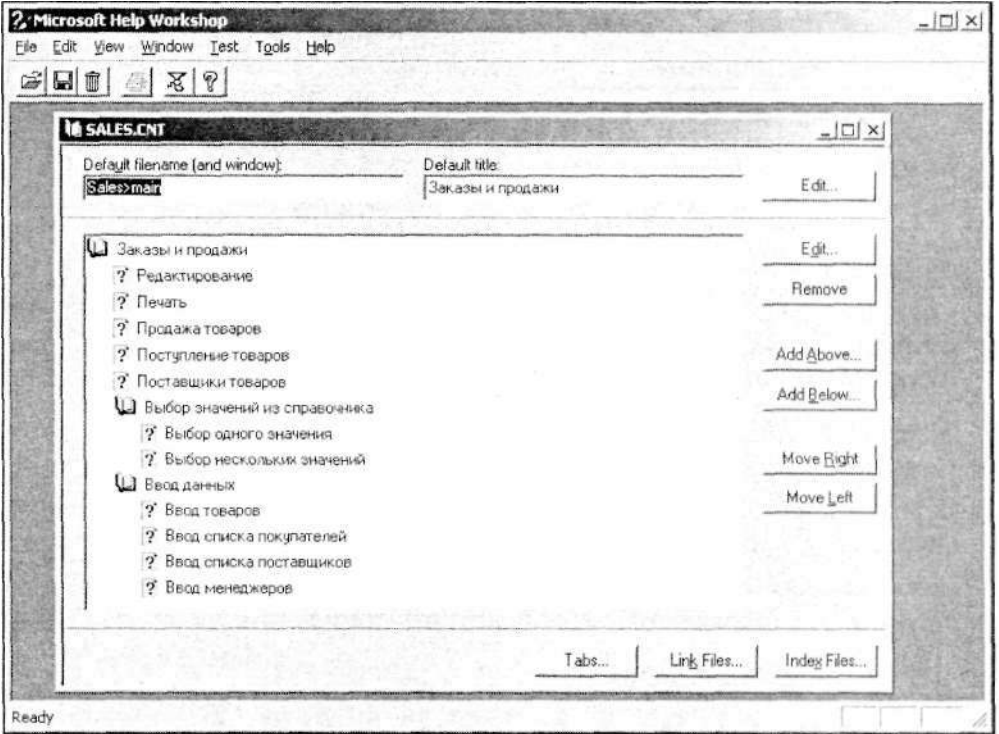
- 10. Below () Add
- 11. Move Right () -
- 12. Add Below () Add Above ().
- 13. Edit Contents Tab Entry -
- 14. Topic ().
- 14. Title () ,
- 14. Topic ID — (. 12.15).
- 15. Default filename (and window), Help file ()



. 12.15.

16.

12.16



12.16.

[OPTIONS]

HTML

HTML

HTML Help Workshop.

I.

HTML

HTML,

Microsoft

Word.

2. HTML Help Workshop

Замечание

WinHelp,
HTML.

3.

4.

5.

6.

7.

Visual FoxPro

()

SET HELP TO.

8.

HELPCONTEXTID.

HTML Help Workshop

HTML Help Workshop (. 12.17)

Project (), Contents (), Index () Help ().

HTML.

Tags ()

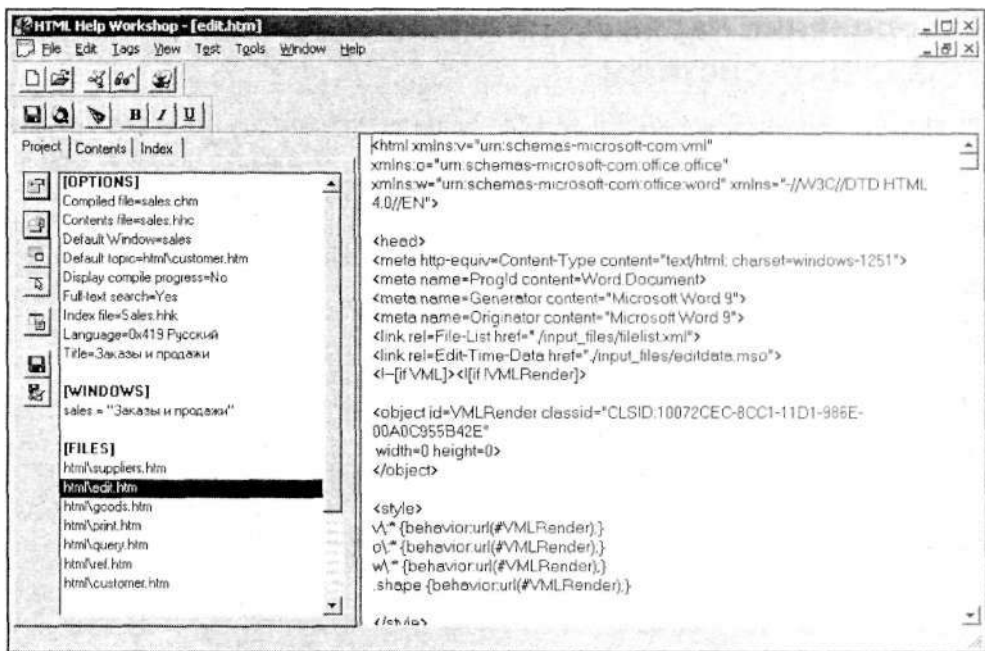
HTML Help Workshop

Web (. 12.18).

[FILES]

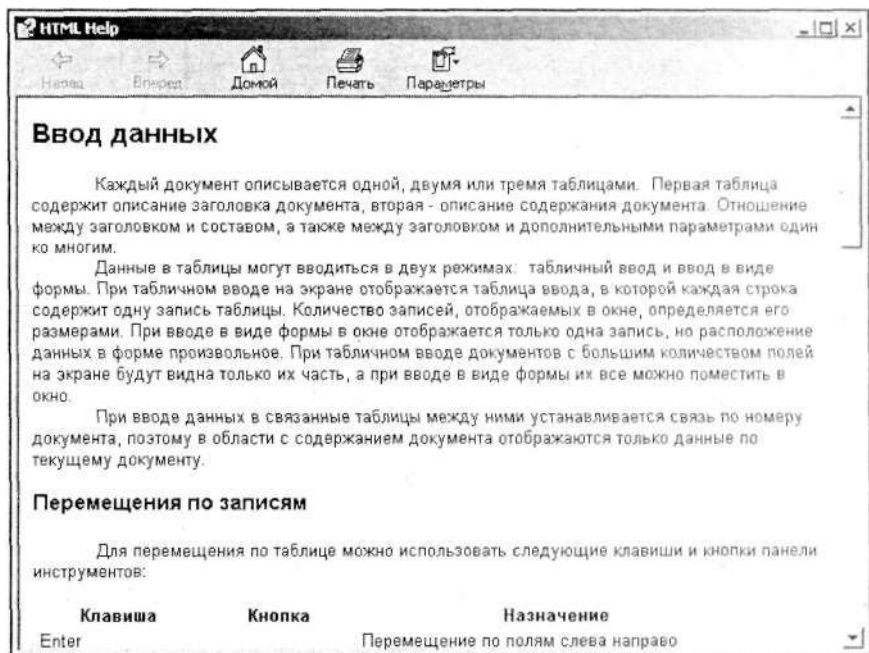
Display in Browser (

).



. 12.17.

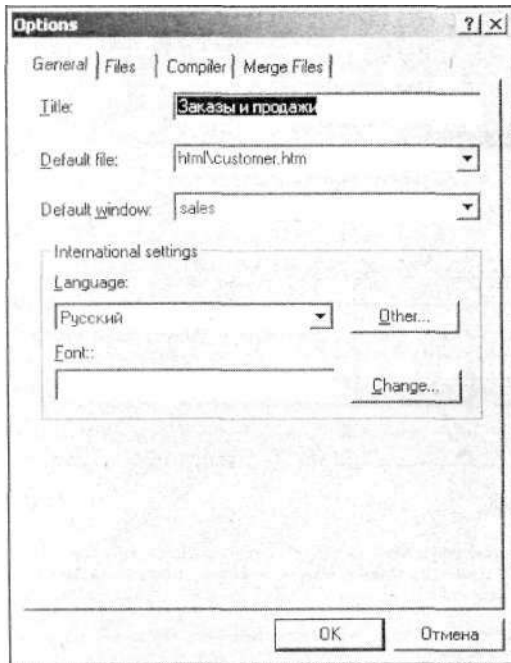
HTML Help Workshop



. 12.18.

Web

() . [Options] Project
 () Change Project Options
 Options () (. 12.19),
 : General (), Files (), Compiler () Merge
 Files () .



. 12.19.

General () :

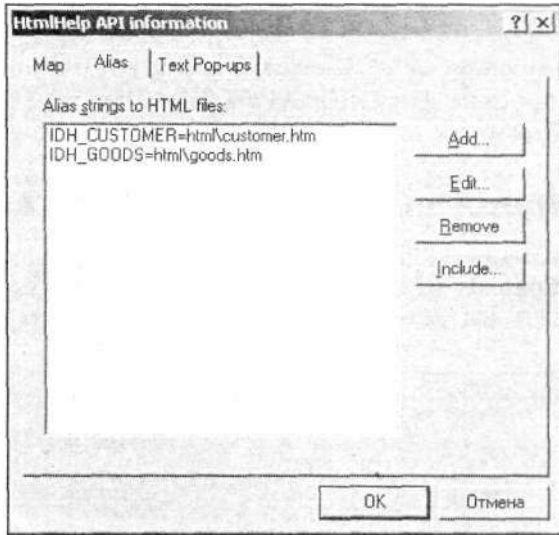
- ;
- ,
- ;
-

Files () ;

Compiler () .

HtmlHelp API information

Project () Alias (-
) (. 12.20). Add () -
Alias () -
(. 12.21)



. 12.20.



. 12.21.

#Define,

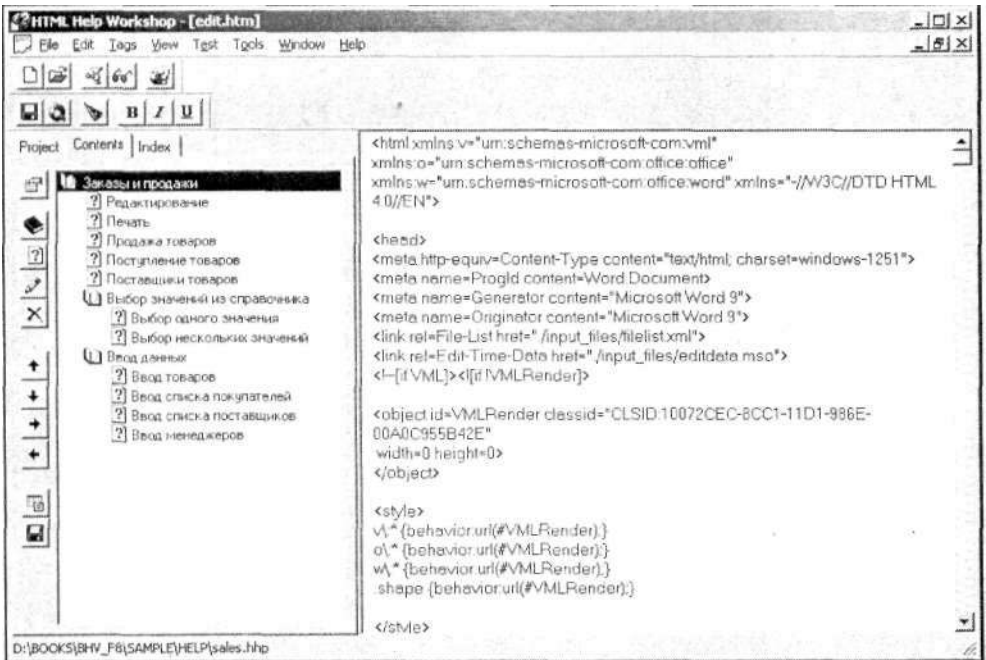
<Define IDH_CUSTOMER 3

#Define IDH_GOODS 4

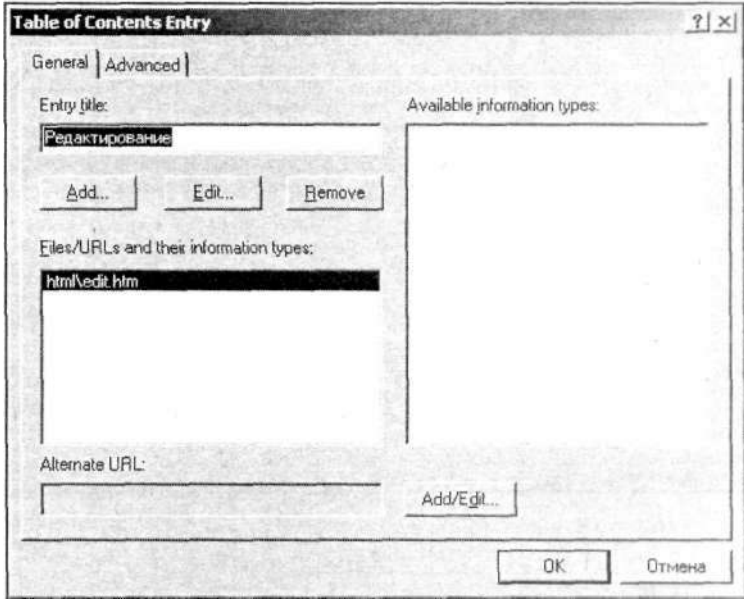
HtmlHelp API information

Map ()

Contents ().
(. 12.22)



Insert a page () (. 12.23),
 Insert a heading ()
 Table of Contents Entry ()



. 12.23.

Move selection right ()
 Move selection left ()

Index ()

(. 12.24).

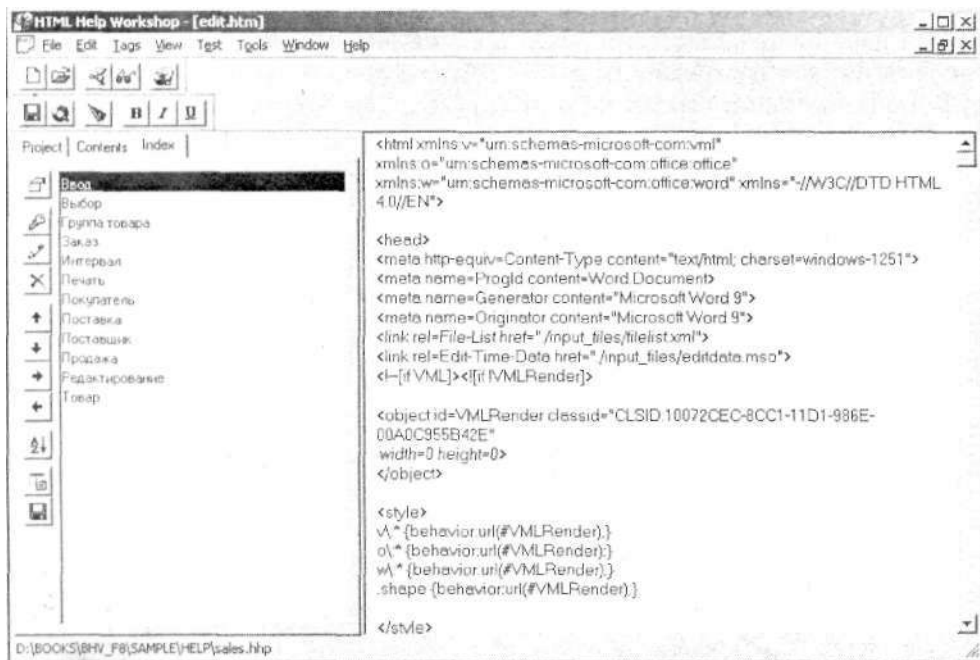
Insert a keyword ()
 Index Entry () (. 12.25),

Keyword ()

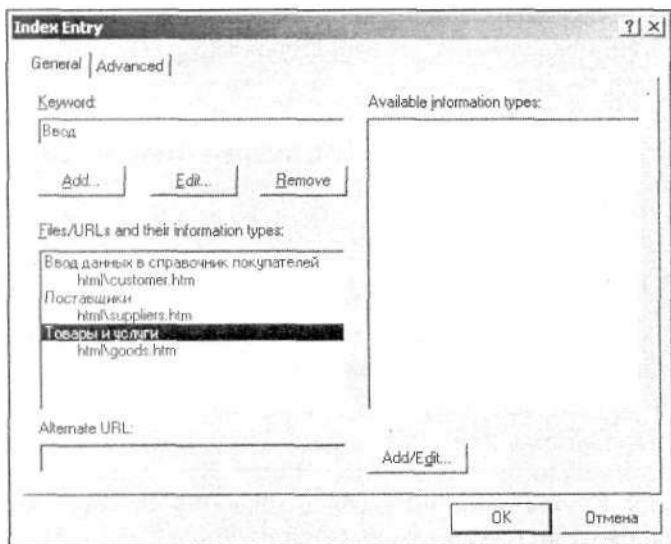
Files/URLs and their information types (/)

Add ()

— Remove (), Edit (),



12.24.



12.25.

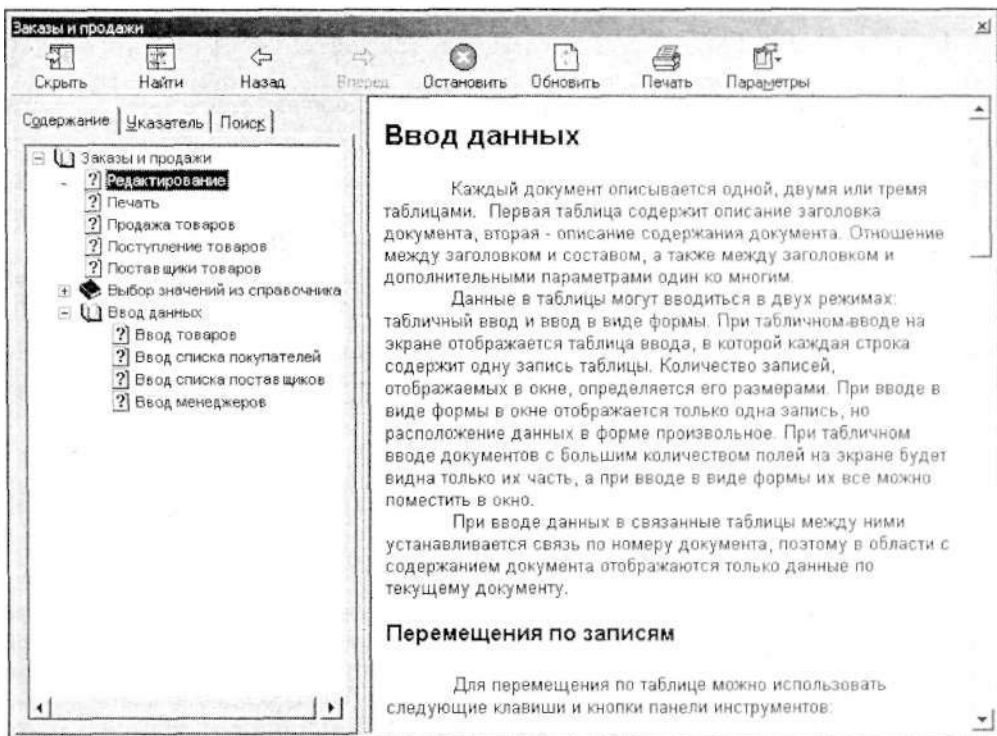
index files

Save project, contents and Project (),

Compile HTML file (HTML)
HTML Help Workshop.

View compiled file ().

. 12.26.



. 12.26.

Visual FoxPro,

Visual FoxPro

Visual FoxPro.

12.7.

12.7.

SET HELP

HELP

SET TOPIC TO

SET HELP

SET HELP

SET HELP ON | OFF

FoxPro.

<F1>

Visual
SET HELP ON,

HELP

Visual FoxPro.

SET HELP OFF

SET HELP

SET HELP TO sales.hlp

HELP

```

HELP, -
:
HELP [ | ID ] -
  [IN [WINDOW] | IN [WINDOW] SCREEN] -
  | IN [WINDOW] MACDESKTOP] -
  [NOWAIT] -
HELP -
, -
  IN [WINDOW] -
, DEFINE WINDOW. -
, -
  NOWAIT -

```

SET TOPIC

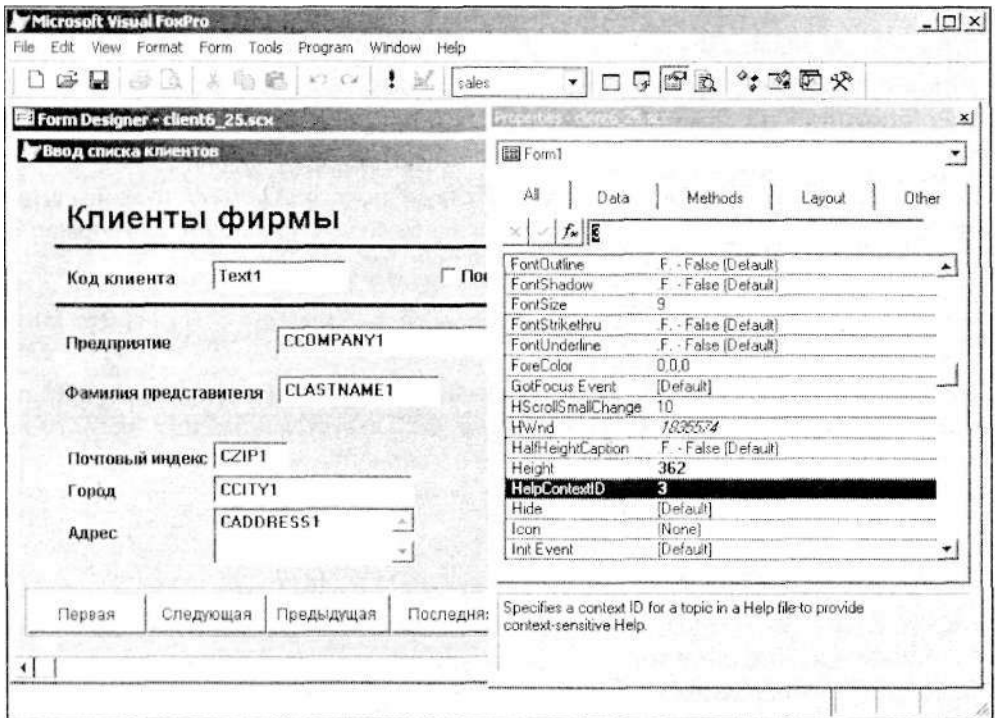
```

SET TOPIC, -
, -
:
1. SET TOPIC TO [ | ] -
2. SET TOPIC ID TO [ ] -
  SET TOPIC TO , -
SET TOPIC TO -
SET TOPIC ID TO [ ] -
, -
, -
, -

```


SET HELP TO

HELPContextID (. 12.27),
[MAP]



. 12.27.

HELPContextID

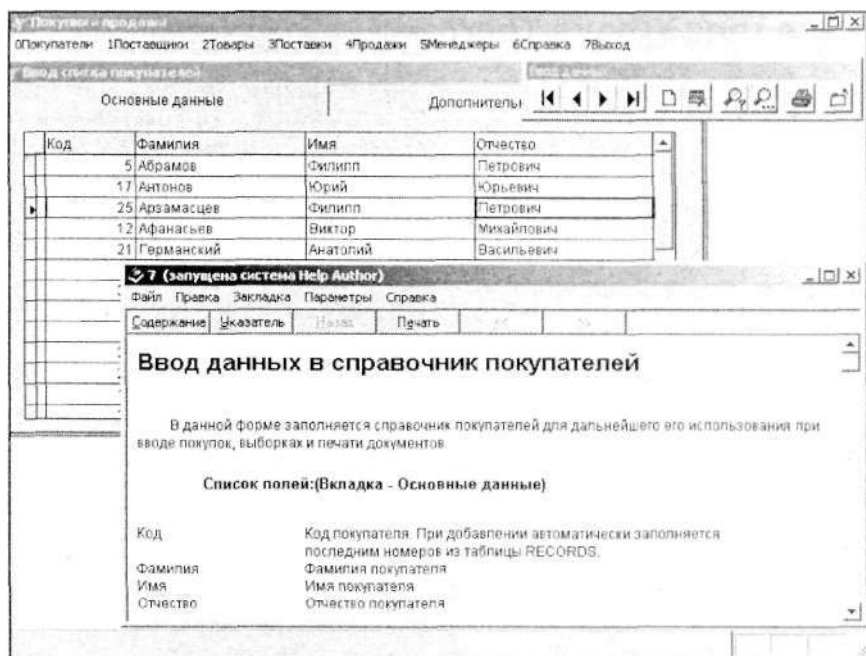
<F1>

. 12.28

. 12.29 —

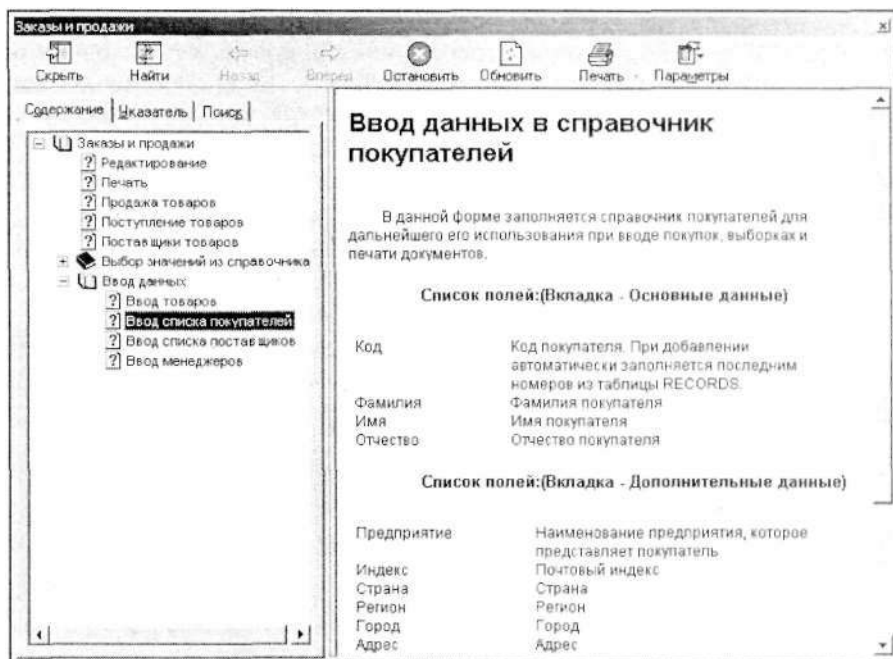
HTML.

WinHelp,



. 12.28.

WinHelp



. 12.29.

HTML

What's This?

What's This?,

What's This?

12.8.

12.8.

What's This?

WhatsThisHelp

What's This?

WhatsThisButton

What's This? ?

WhatsThisHelpID

What's This?
WhatsThisMode.

Замечание

What's This?

What's This?

1.

2.

WhatsThisHelp True.

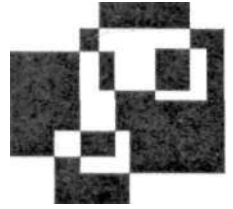
3.

What's This?

WhatsThisButton True.

4.

WhatsThisHelpID.



Browse ()

Run ()

Modify ()

Visual FoxPro

Options ()

Options () (. 13.1),

Tools ()

Project ()

Project double click action ()

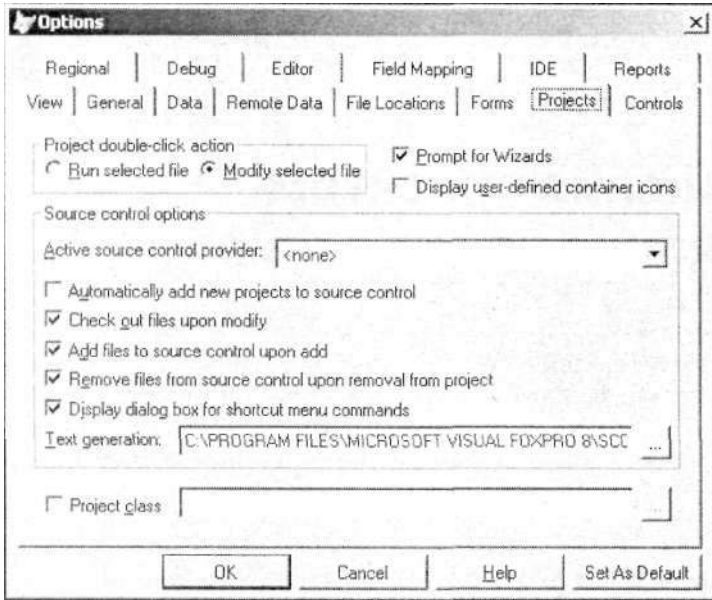
Run selected file ()

Browse ()

Wizard ()

Options ()

Prompt for



. 13.1.

Source control options (),

. 13.1.

13.1.

Project

Automatically add new projects to source control (

)

Check out files upon modify (

)

Visual FoxPro

13. ()

Add files to source control upon

add () , (PJX),

Remove files⁴ from source control upon removal from project

() ,

Visual FoxPro

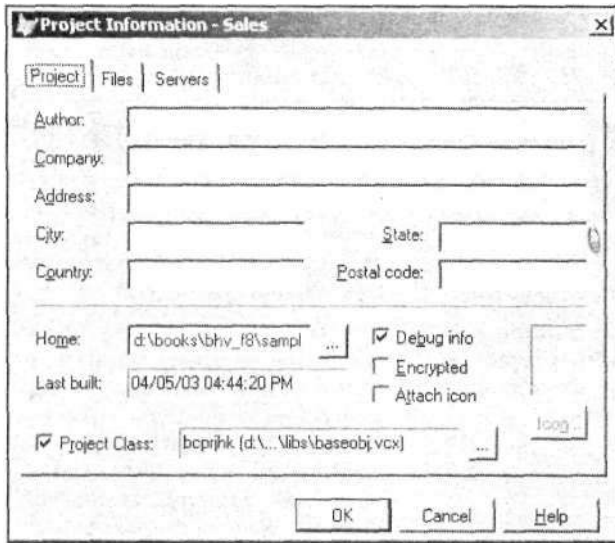
Display dialog box for shortcut menu commands

() Visual FoxPro

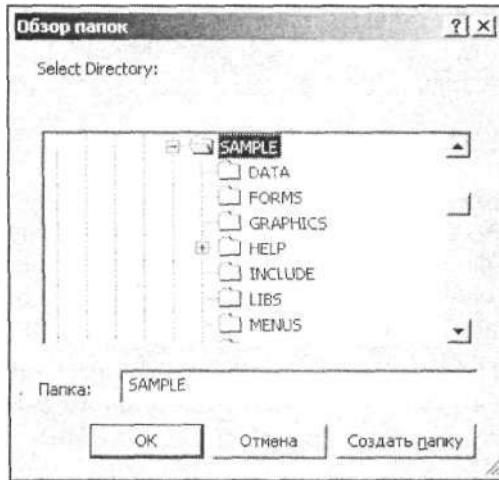
1. **Project** () **Project Info** ()
). **Project Information** ()
), **Project** (), **Files** () **Servers**
 () .

2. **Project** (. 13.2) **Author** (), **Company** (),
Address (), **City** (), **Country** (), **State** () **Postal**
Code () .

3. **m** () **Project** ()
 , (. 13.3),



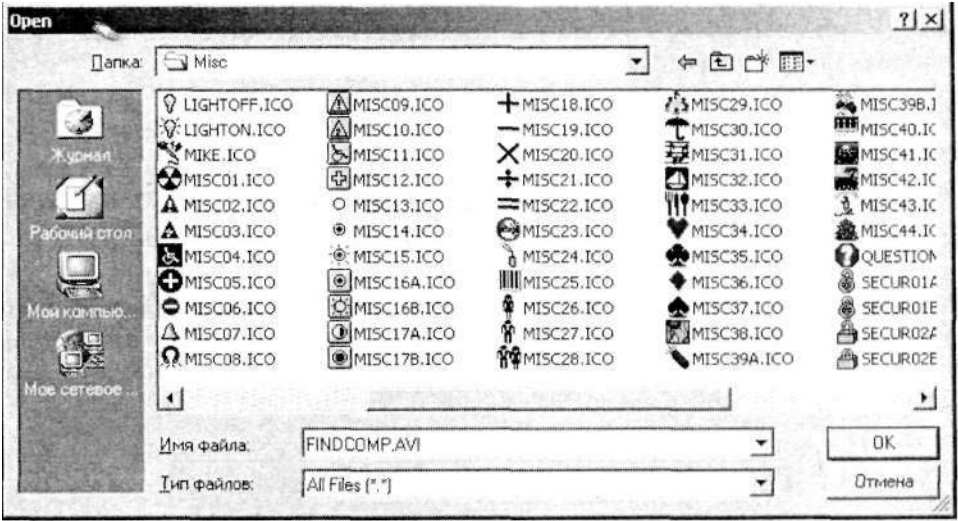
. 13.2. Project Information



. 13.3. Select Directory

4. , Attach icon (-)
5. Open () -
ICO, Visual FoxPro Icons (), Graphics

().
 (. 13.4).



. 13.4.

6. Last built ().

7. Debug info ().

СОВЕТ

Debug info ()

8. Encrypted ().
 Visual FoxPro

9. Files () Project Information ()
 (. 13.5).

13.2.

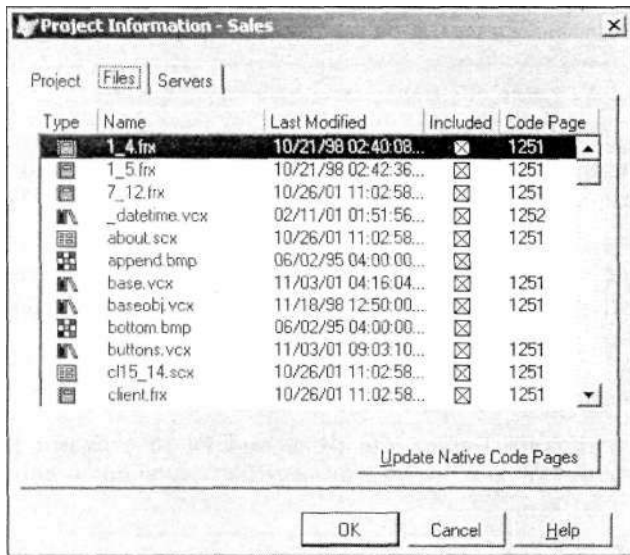
13.2.

()

Name ()

Last Modified ()

Included ()



13.5.

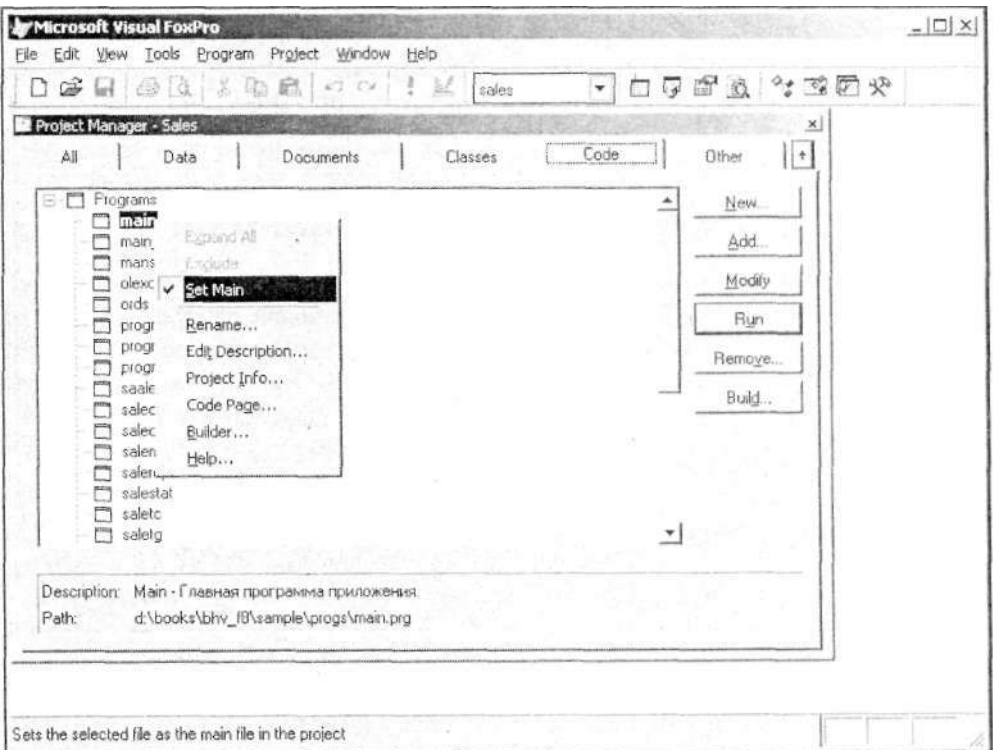
Files

Project Information

1. ,
 2. Project () Set Main (-
) Set Main (-
).
- (. 13.6).

Примечание

Project Information (). Files
 () Set Main ().



Exclude

(, ,) -

. , , -

. , -

, -

:

• Exclude ();

• Exclude () Project ().

, -

.

, -

. -

. -

Include ()

Include () Project ().

Visual FoxPro.

,
Clean

Up Project () Project ().

Visual FoxPro

, -

, , , -

, , , -

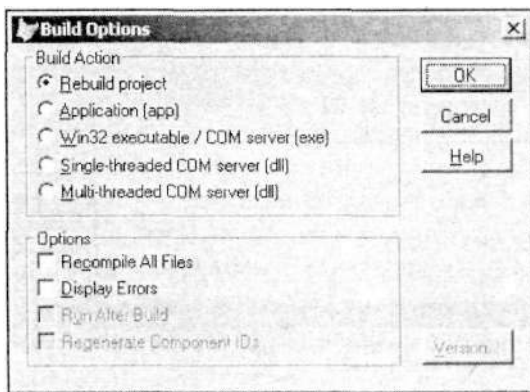
.

,

Build ()

Build () Project ().

- (. 13.7),
- **Build Options** () — ;
 - **Rebuild project** () — ;
 - **Application (app)** () — Visual FoxPro **Do** () **Program** () ;
 - **Win32 executable/ COM server (exe)** () — Visual FoxPro, ;
 - **Single threaded COM server (dll)** () — (Dynamic Link Library) DLL;
 - **Multi threaded COM server (dll)** () — (Dynamic Link Library) DLL.



. 13.7. Build Options

- Build Options** () ,
- **Recompile All Files** () — ;
 - **Display Errors** () — (. 13.8), ,

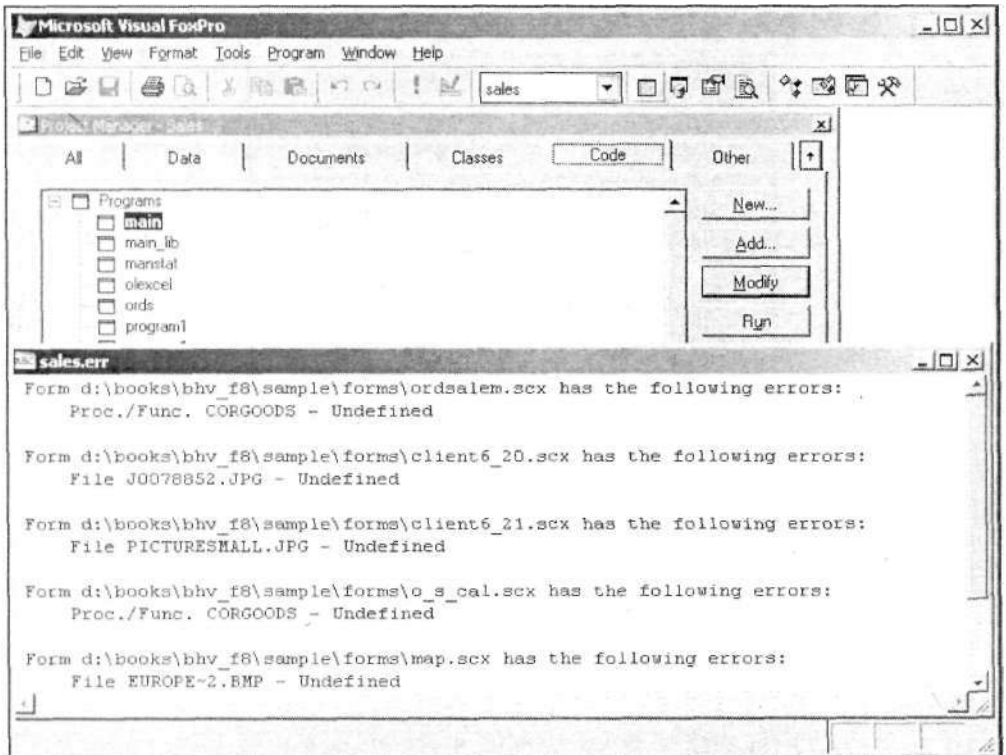
Errors () Project ();

- Run After Build () —
- Regenerate Component IDs (Automation) — Automation
- Version ()

Замечание

Regenerate Component Ids

Win32 Executable/COM server, Single threaded COM server Multi threaded COM server.



Rebuild Project (

Yes ().

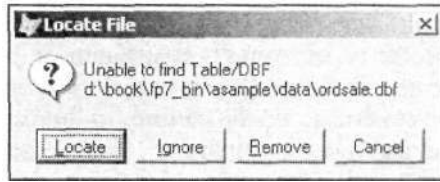
Locate

File () (. 13.9),

Locate ()

Ignore ().

ERR.



. 13.9.

Locate File

Build Options (

Application ()

Win32 Executable/ COM

server ().

Visual FoxPro,

Application ().

Win32 Executable/ COM server (

Build Options

Application ()

Win32 Executable/ COM server (dll) (

DO,

Command Visual FoxPro

Do ()

Program ().

Do ().

Do ().

Win32 Executable/ COM

server (),

Vfd8r.dll Vfb8renu.dll.

Visual FoxPro

FoxPro, Visual
 , , ,
 , , . .
 ,
 .

Visual FoxPro, , Auto-
 mation , Microsoft Excel, Microsoft Word HTML .
 Visual FoxPro.

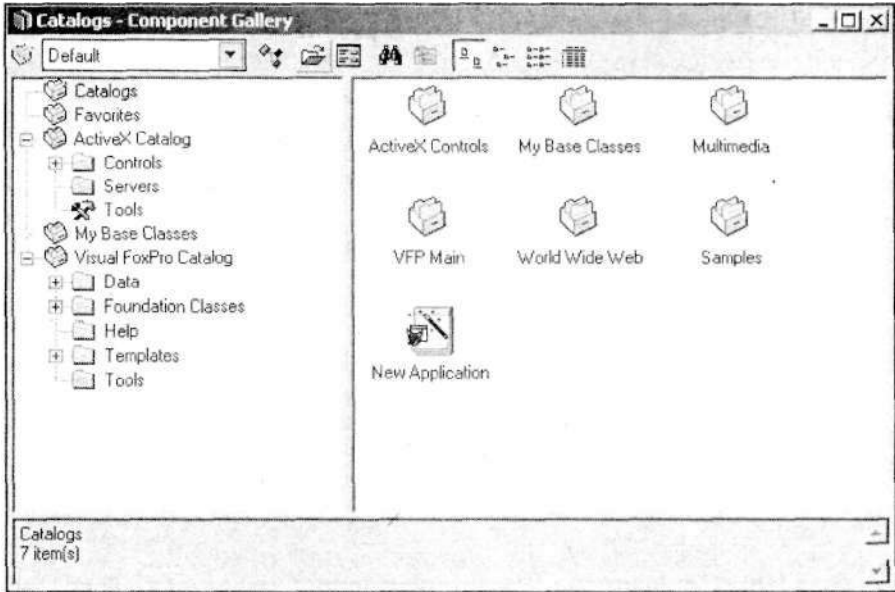
,
 ,
 ,
 ,
 .
 Web .

,
 ,
 () " "

• **Tools** () **Component Gallery** ()
).

• :
 DO (,,,GALLERY)
 • (. 13.10).

,
 ,
 ,
 .



. 13.10.

Options (),
 Component Gallery Options () (. 13.11).
 . 13.3.

13.3.

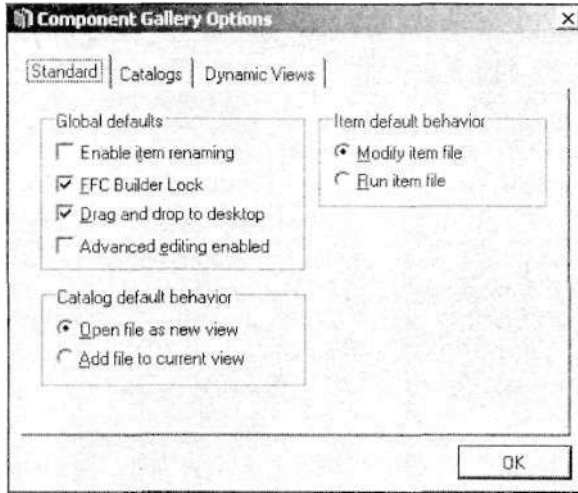
Component Gallery Options

Standard () -

Catalogs ()

Dynamic Views

()



. 13.11. Standard Component Gallery Options

Standard () Component Gallery Options
 ()
 Global defaults ()
 . 13.4.

13.4. Component Gallery Options

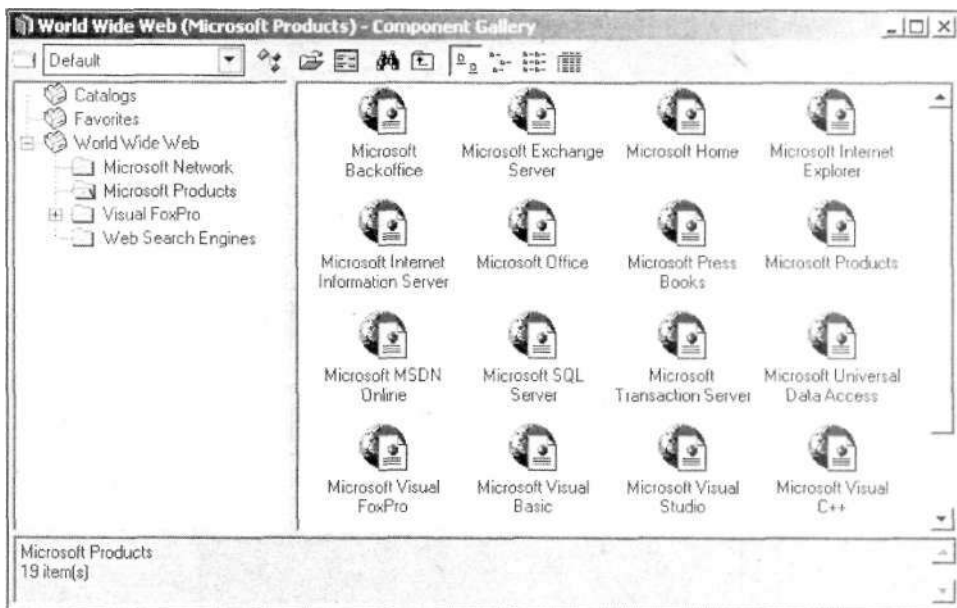
Enable item renaming ()	
FFC Builder Lock ()	
Drag and drop to desktop ()	Visual FoxPro
Advanced editing enabled ()	Properties
	Type, Scripts, Views
	Comments

Item default behavior ()
 Standard ()
 Modify item file (),

Run item file ()

Visual FoxPro

13.5.



13.12.

Web

World Wide Web

13.5.

Visual FoxPro Catalog
(Visual FoxPro)

Visual FoxPro,

Favorites ()

My Base Classes ()

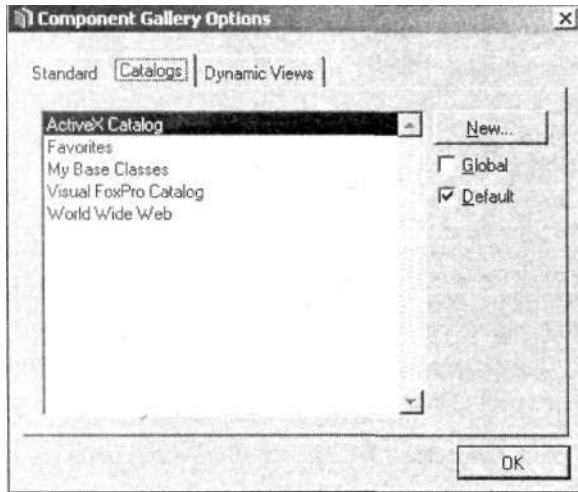
Visual FoxPro

ActiveX Catalog (ActiveX)

ActiveX

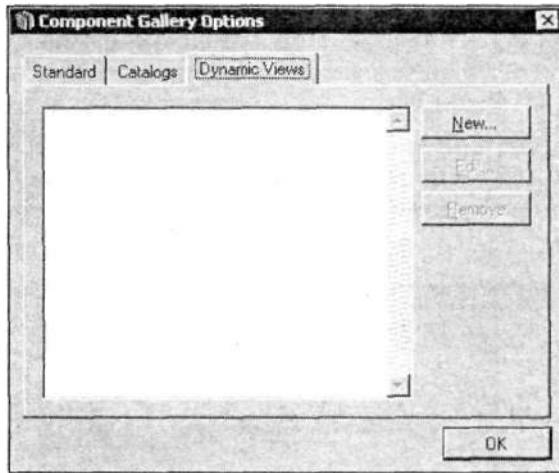
World Wide Web	Web	(. 13.12),
	Microsoft	-
Multimedia Catalog (-)	,	,
Visual FoxPro Samples (Visual FoxPro)	Visual FoxPro	,

Catalogs () (. 13.13) Component
 Gallery Options ()
 New (),



. 13.13. Catalogs Component Gallery Options

View Type (),
 Dynamic Views () (. 13.14)
 Component Gallery Options (),



. 13.14.

Dynamic Views

Component Gallery Options

View Type ()

:

1. Options ()

2. Dynamic Views ().

3. New ().

4. Edit View (-)

5. Save ().

Dynamic Views ()
Edit () Remove () -

Application () Catalogs (). New

New Application () -

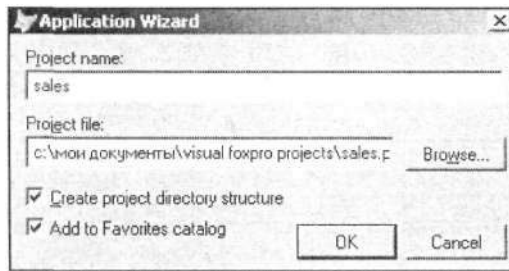
Enter Project Name (),

name () — structure (), catalog () Favorites ().

Project file () Create project directory Add to Favorites

Enter Project Name ()

Cancel ()



. 13.15.

Enter Project Name

"

"

Visual FoxPro,

1. Move ()
2. Move ()
- 3.
- 4.

" . 13.6", — . 13.7.

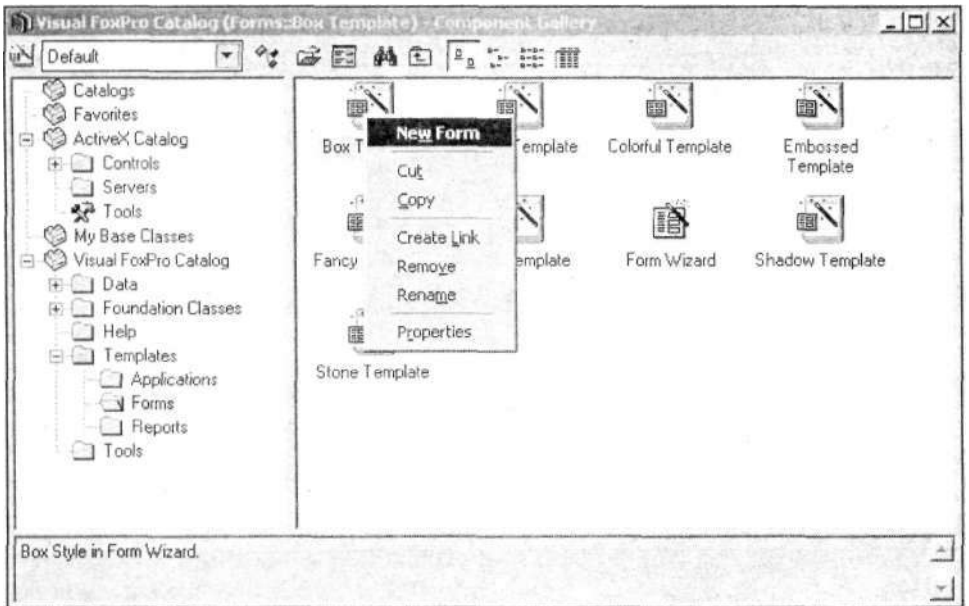
13.6.

Class	(_ClassItem)		6	
File	(_FileItem)			
URL	(_UrlItem)	1		
Form	(_FormItem)	9	11	
Report	(_ReportItem)	9	11	
Program	(_ProgramItem)		11	
Menu	(_MenuItem)	10	11	
Image	(_ImageItem)	2	7	2
Sound	(_SoundItem)	3		
Video	(_VideoItem)	3		
ActiveX	(_ActiveXItem)			
Data	(_DataItem)	4		
Template	(_TemplateItem)	5		
Catalog	(_CatalogItem)		8	
Sample	(_SampleItem)			
Project	(_ProjectItem)		11	

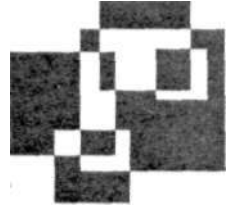
13.7.

1	Hyperlink
2	image
3	
4	Grid
5	
6	
7	Visual FoxPro
8	
9	
10	
11	

- **New Form ()**
(. 13.16) **Forms (-**
- **Form Wizard**
() (. 13.16) **Forms ()** -



. 13.16.



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Visual FoxPro,

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Visual FoxPro.

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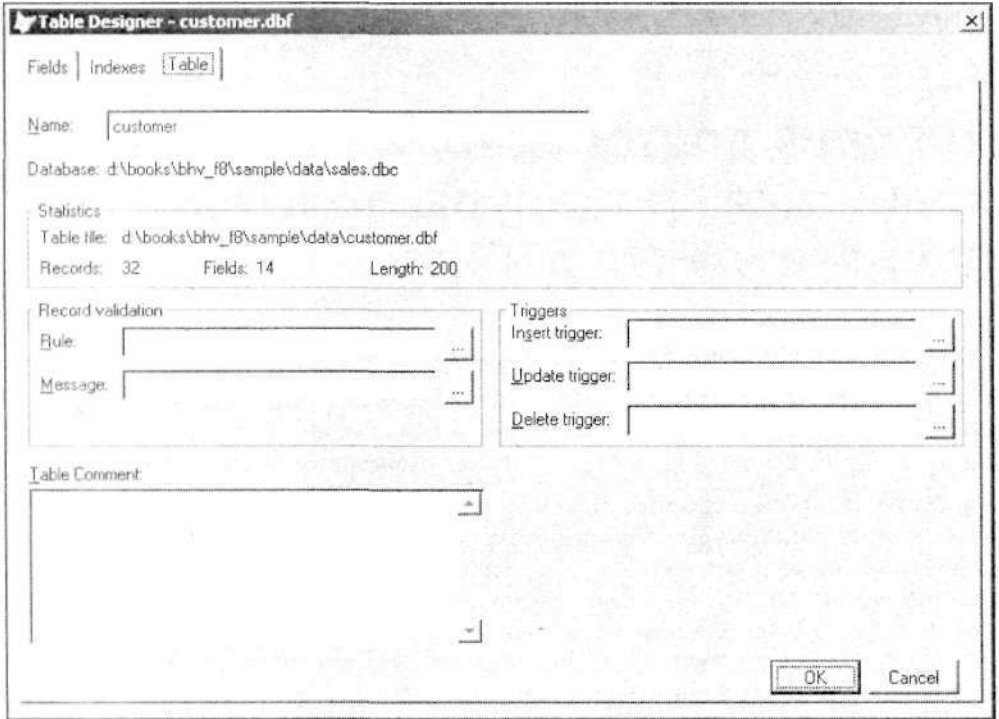
,

,

.

,

Table () (. 14.1).



. 14.1.

Record validation (Rule () Message () Rule ()) , True () , Message () .

14.1.

 Insert

()

Update

()

Delete

()

```

      Insert trigger (
    ), Update trigger (
    )
    Table (
    )
    ,
    True,
    ,
    ,
    ,
    ,
    Delete (
    ) :
    •
    DELETE;
    •
    Browse (
    ) Edit
    (
    ).
    insert (
    ) :
    •
    APPEND FROM, APPEND FROM ARRAY, APPEND BLANK;
    •
    Browse (
    )
    Edit (
    );
    •
    IMPORT, INSERT SQL, RECALL;
    •
    Browse (
    ) Edit
    (
    ).
    update (
    ) , :
    •
    ,
    );
    •
    GATHER, REPLACE, REPLACE FROM ARRAY,
    UPDATE SQL.
  
```

Visual FoxPro:

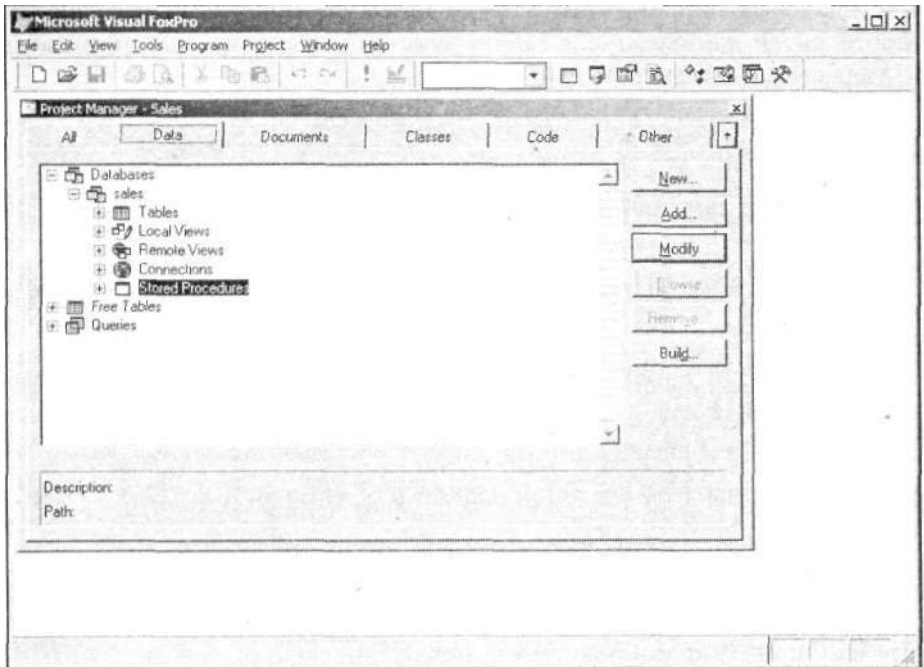
- PACK ;
- ZAP Delete ();
- update ()

TABLEUPDATE ().

Table

()
DELETE TRIGGER.

- 1.
2. **Stored Procedures** ().
3. New () (. 14.2).



. 14.2.

Stored Procedures

4.

(. 14.3),

The screenshot shows the Microsoft Visual FoxPro environment. The title bar reads 'Microsoft Visual FoxPro'. The menu bar includes 'File', 'Edit', 'View', 'Format', 'Tools', 'Program', 'Window', and 'Help'. The toolbar contains various icons for file operations and development. The main window is titled 'Stored Procedures for Sales' and contains the following code:

```

* Назначение:  Вызывается при определении в табличном выражении значения
*              для индексного поля.
*
* Параметры:
*   cNameAliasGB - Имя таблицы, в которой происходит добавление.
*   nDefaultValueGB - Начальное значение для поля.
*-----
FUNCTION GetAutoNewNum
PARAMETERS cNameAliasGBIN
LOCAL nDefaultValueGBIN

IF TYPE("cNameAliasGBIN")="L"
  -GetMessage:"Нужно ввести имя таблицы для определения начального значения"
  RETURN 1
ENDIF

cNameAliasGBIN=ALLTRIM(UPPER(cNameAliasGBIN))
DO Opendata WITH "SALES.BECORDS",1
IF SEEK(cNameAliasGBIN)
  APPEND BLANK
  REPLACE NameOfTable WITH cNameAliasGBIN
  REPLACE Count: nDefaultValueGBIN WITH 1
ELSE
  REPLACE Count: nDefaultValueGBIN WITH 1
ENDIF
ENDFUNC

```

. 14.3.



Visual FoxPro

Visual FoxPro

MODIFY PROCEDURE,

<Delete>

Remove ()

Customer

GetAutoNewNum.

- 1. sales.
- 2. sales Records,
- 3. customer **Modify**
- 4. **Fields** ().
- 5. **Default value** () **Field**
- 6. **validation** ()
- 7. **GetAutoNewNum** ("Customer ") (. 14.4).

```

FUNCTION GetAutoNewNum
  LPARAMETERS cNameAliasGANN
  LOCAL nDefaultValueGANN
  IF TYPE("CNameAliasGANN")="L"
    = GetMessage ("

```

```

"+ALIAS{)+"!",48,"          GetAutoNewNum")

RETURN 1
ENDIF
cNameAliasGANN=ALLTRIM(UPPER(cNameAliasGANN))
DO OpenTable WITH "SALES!RECORDS",1
IF !SEEK(cNameAliasGANN)
APPEND BLANK
REPLACE NameOfTable WITH cNameAliasGANN
REPLACE ColRecordsInTable WITH 1
ELSE
REPLACE ColRecordsInTable WITH ColRecordsInTable+1
ENDIF
nDefaultValueGANN=ColRecordsInTable
SELECT (CNameAliasGANN)
RETURN nDefaultValueGANN

```

Table Designer - customer.dbf

Fields | Indexes | Table

Name	Type	Width	Decimal	Index	NULL
idcustomer	Integer	4		↑	-
ccompany	Character	20		↑	
clastname	Character	16		↑	
cfirstname	Character	16			
csecondname	Character	16			
czip	Character	6			
ccountry	Character	20		↑	
cregion	Character	3			
ccity	Character	20			
caddress	Character	60			
ycreditlimit	Currency	8			
lprivileged	Logical	1			
ndiscount	Numeric	5	2		
mnotes	Memo	4			

Display
Format:
Input mask:
Caption: Код клиента ...

Field validation
Rule: ...
Message: ...
Default value: getautonewnum("C" ...

Map field type to classes
Display library: ...
Display class: Listbox

Autoincrement
Next Value: Step:

Field comment:

Insert Delete OK Cancel

Ordsaled,

Customer.

1. Sales.

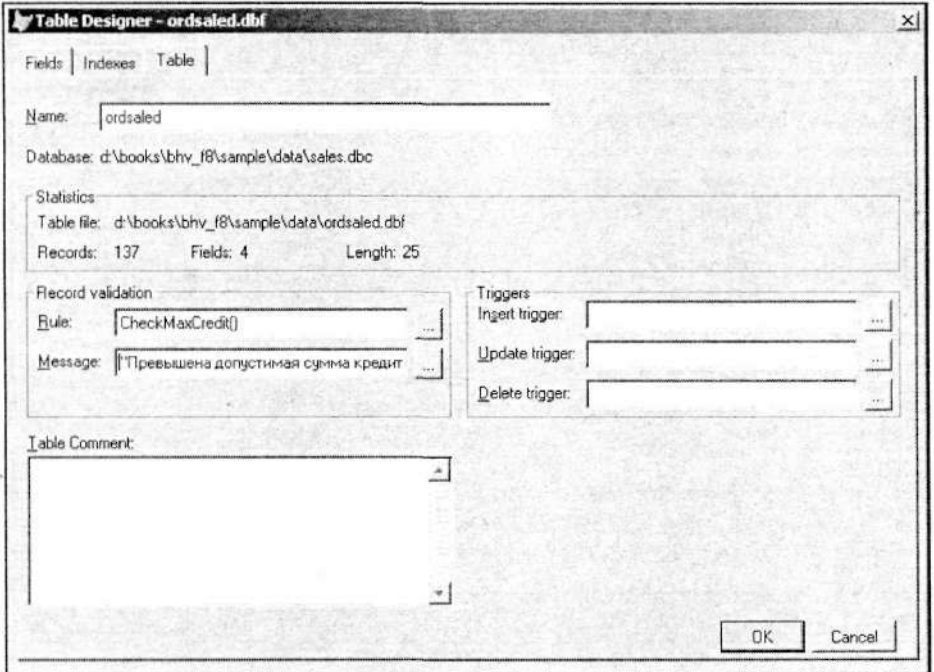
2. Ordsaled **Modify**

()

3. **Table** ()

4. **Rule** () **Record validation** (
 CheckMaxCredit ,

5. **Message** () **Record validation**
 (.14.5) "



6. CheckMaxCredit

CheckMaxCredit

```

procedure CheckMaxCredit
nCdOrder=Ordsaled.icdOrder  &&
*
SELECT SUM(Ordsaled.nQuant*Ordsaled.nUnitPrice);
  FROM Ordsalem, Ordsaled;
WHERE Ordsalem.icdOrder = Ordsaled.icdOrder;
      AND Ordsaled.icdOrder=nCdOrder;
  INTO ARRAY nSum
*
Customer
SELECT Customer
SEEK Ordsalem.icdCustomer
*
Customer
*
IF FOUND()
  RETURN nSum(1) < CUSTOMER.yCreditLimit
ELSE
  RETURN .F.
ENDIF
RETURN

```

insert.

NewCustomer.

insert

customer:

1. sales.

2. customer,

Modify ().

3. Table ()

4. **Insert trigger** ()

AddNewCustomer(),
NewCustomer.

5. AddNewCustomer

:

```
procedure AddNewCustomer
nCurCdCustomer=icdCustomer
SELECT NewCustomer
APPEND BLANK
REPLACE icdCustomer WITH nCurCdCustomer
SELECT NewCustomer
RETURN .T.
```

Fields ()

Field validation ()

Rule ()

Message () —

False.

nQuant,

Ordsaled.

:

1. sales.

2. **Data** ().

3. **Tables** () Ordsaled

Modify ().

4. nQuant.

5. **Rule** () **Field validation** (

) **CheckQuant** ().

6. Message () : "
"(.14.6).

7.

CheckQuant:

```

procedure CheckQuant
nCdGoods = Ordsaled.iCdGoods
*
SELECT nFactQuant;
FROM Goods;
WHERE iCdGoods = nCdGoods;
INTO ARRAY nQuant
*
RETURN Ordsaled.nQuant(1) <= nQuant(1)

```

Name	Type	Width	Decimal	Index	NULL
icdorder	Integer	4		↑	
icdgoods	Integer	4		↑	
nquant	Numeric	6	0		
nunitprice	Numeric	10	2		

Field validation:
Rule: CheckQuant()
Message: "Заказанное коли...
Default value:

Map field type to classes:
Display library:
Display class: <default>

Autoincrement:
Next Value: Step:

Field comment:

. 14.6.

nQuant

Замечание

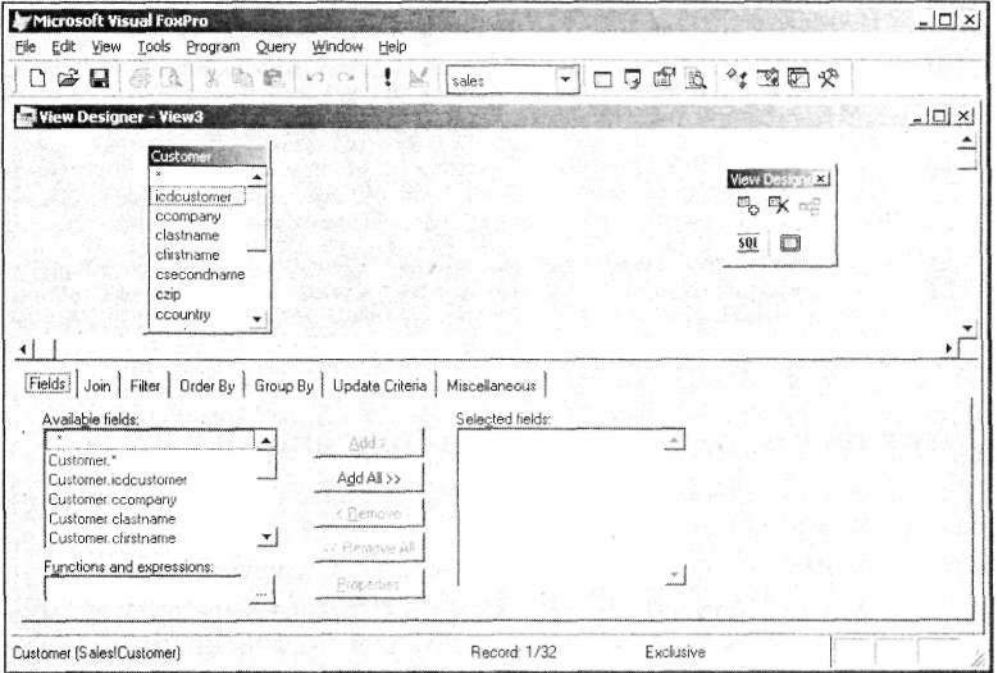
- **File** () **New** ().
View ()
New file ().
- **Local Views** () **Data** ()
New View ().
- **Command** CREATE VIEW.

Замечание

Table and View (), **Add**

Select () **Views** ().

Add ().
 Close () Add Table
 and View ().
 (. 14.7).








. 14.7.

Query () View Designer (-
 View Designer ().
 . 14.2.

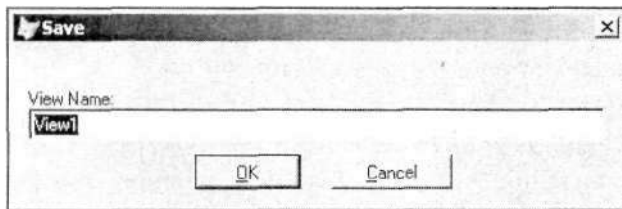
14.2.

View Designer

	Add Table () -	
	Remove Table ()	
	Add Join () () -	Join Condition
	Show the SQL windows (SQL) SQL , -	
	Maximize the table view () -	

1. **File** () **Save As** () .
2. **View Name** ()
Save () (. 14.8)
- 3.

Замечание



. 14.8.

Modify ().

:

- **Run ()** ;
- **Run Query ()** ;
- **Query () Run Query ()** ;
- **<Ctrl>+<Q>**.

Data Session ().

Browse ().

Data Session (),

Browse ().

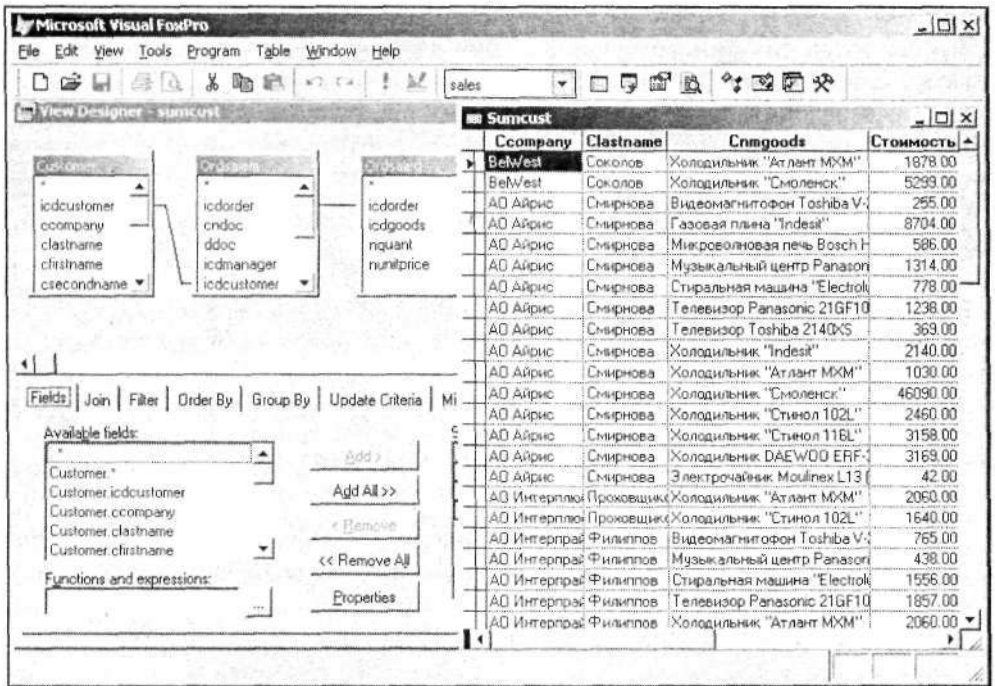
1. Customer, Ordsalem, Ordsaled Goods,

2.

- Customer Ordsalem - ;
- Ordsalem Ordsaled - ;
- Ordsaled Goods «

3. **Selected fields ()**,

4. Selected fields () ,
5. SUM(Ordsaled.nQuant * Ordsaled.nUnitPrice)
6. File () -
Save As () . View Name () -
Save () -
Sumcust
7. Run () (. 14.9),
- 8.

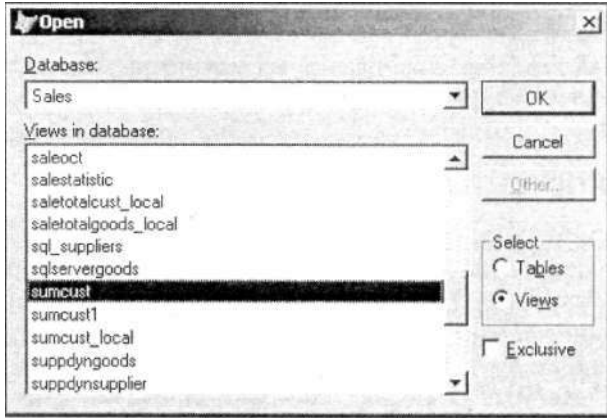


. 14.9.

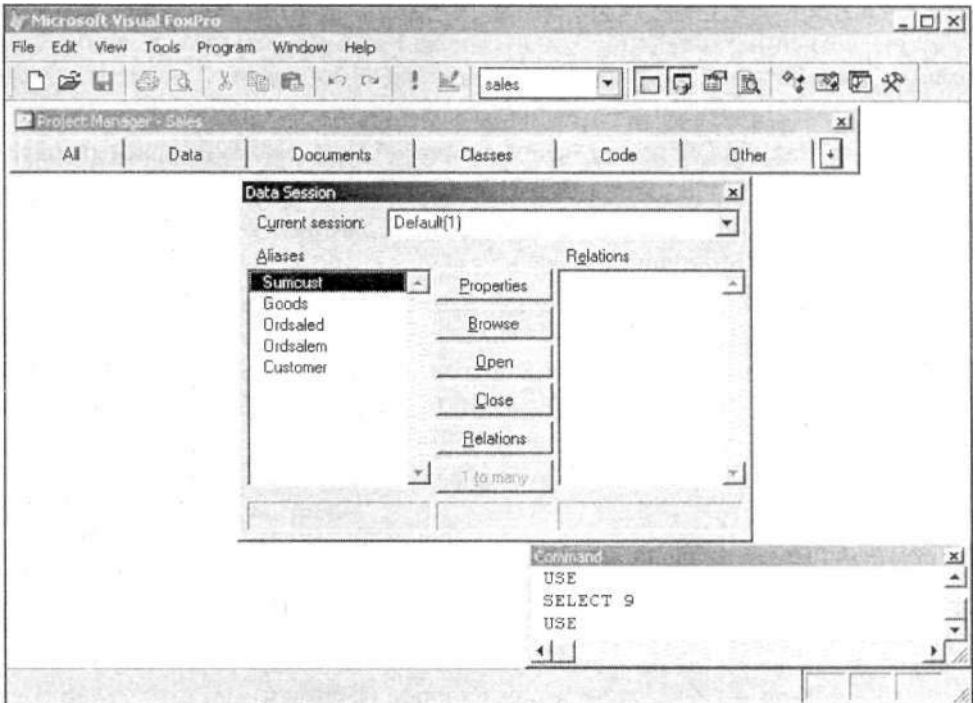
Data

- Session () .
1. Window () Data Session () .
 2. Browse () .

3.) Open () Select (-
- Views ()
4. Views in database (-
-) (. 14.10) .



. 14.10.



. 14.11.

Data Session

Sumcust

Замечание

Data Session () -
(. 14.11).

Совет

USE.

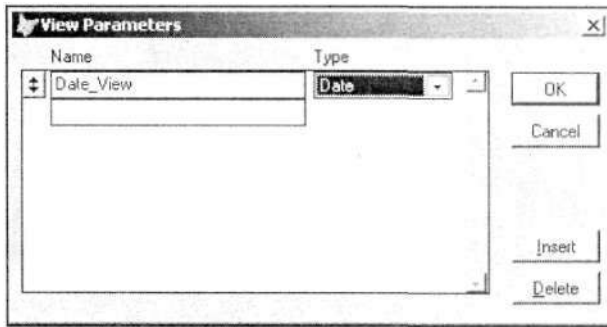
Visual FoxPro

View Parameters () **Query**
().

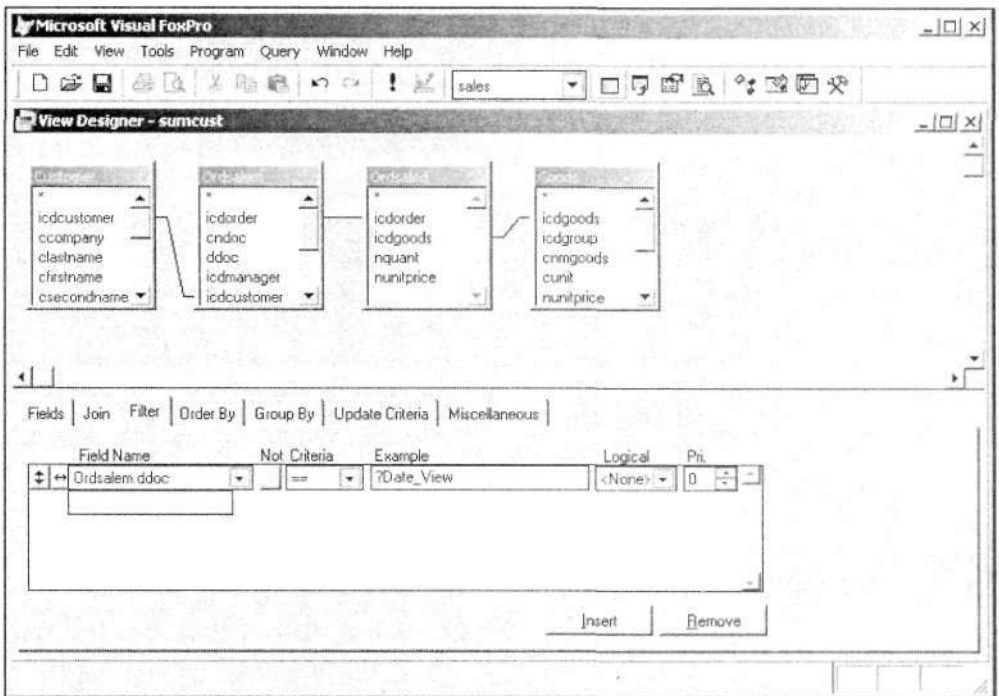
1. **Modify** (). Sumcust
2. **View Parameters** () **Query** () -
).

3. **Date_View** **Date**
(. 14.12).

- 4.
5. **Filter** ()
Ordsalem.dDoc.
= = , **Example** () **?Date_View**
(. 14.13).



. 14.12.



. 14.13.

Замечание

6.

7.

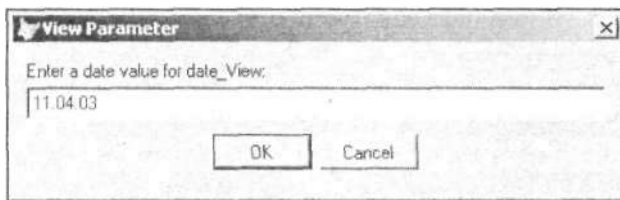
Sumcust.

View Parameters (-

,
(. 14.14).

Замечание

8.



.14.14.

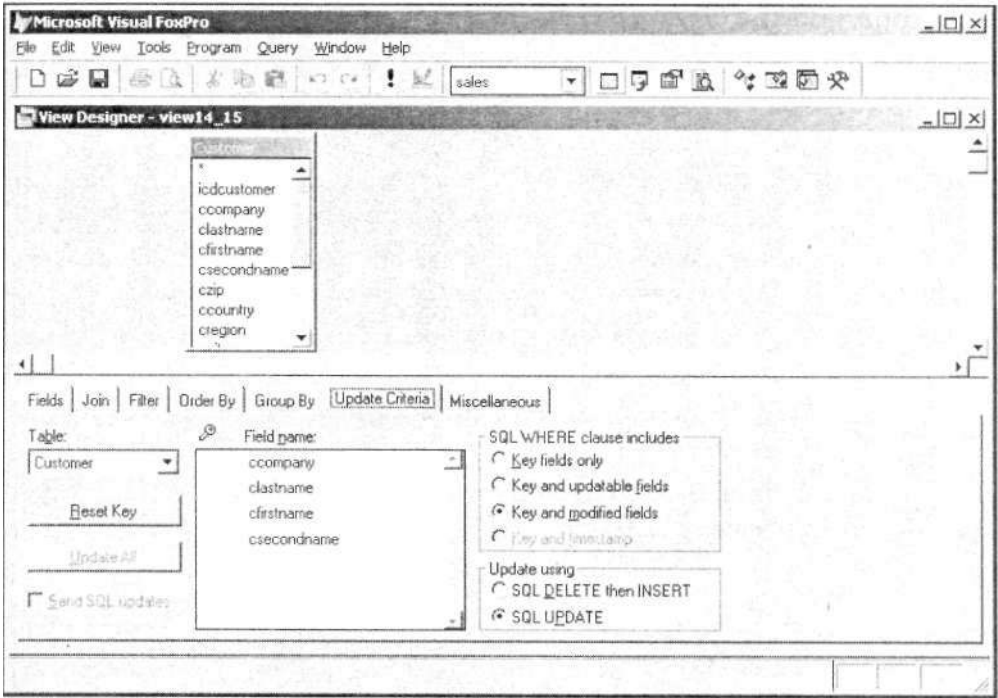
Замечание

View Parameter () -

Visual FoxPro

Update Criteria

() (. 14.15).



14.15. Update Criteria

Table ().
Field name ()

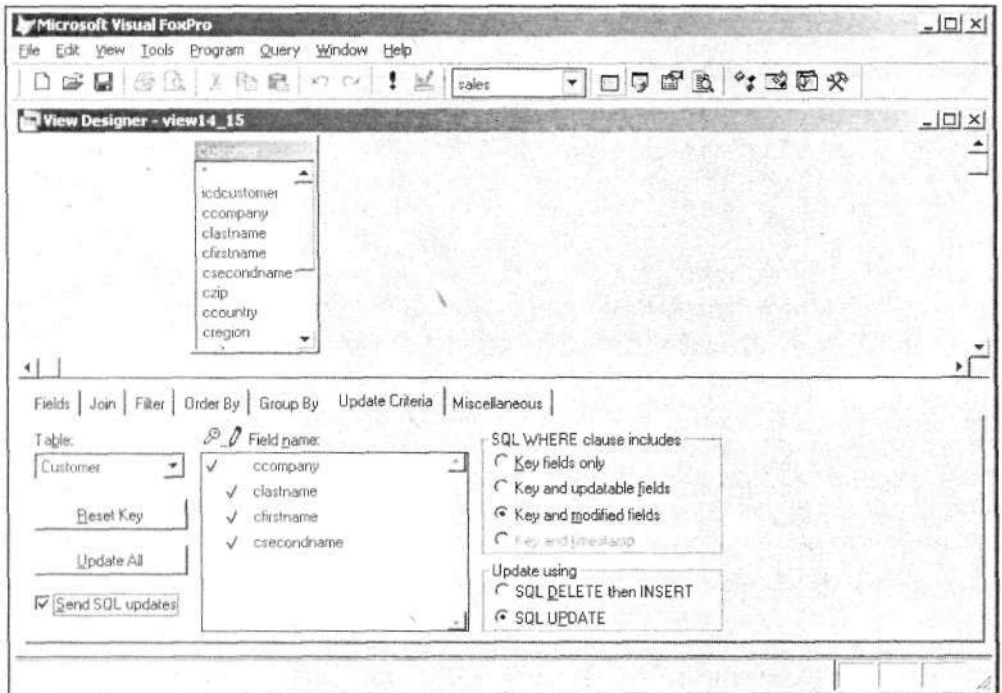
Reset Key ()

Update All ()

Замечание

Update Criteria ()
Send SQL
updates (SQL).

1. Customer.
2. **Selected fields** ()
cCompany, cLastName, cFirstName cSecondName.
3. **Update Criteria** ().
4. cLastName, cFirstName cSecondName.
5. **Send SQL updates** () (. 14.16).



6.

Browse () (. 14.17).

Microsoft Visual FoxPro

File Edit View Tools Program Table Window Help

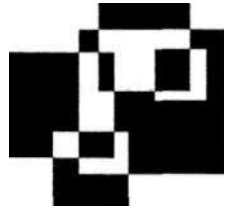
sales

View14_15

Ccompany	Clastname	Cfirstname	Cseconname
АО Александр	Омельченко	Петр	Иванович
АО Айрис	Смирнова	Людмила	Михайловна
ТОО Интерком	Иванов	Юрий	Анатольевич
Банк Программ	Ивлев	Михаил	Николаевич
ТОО ЭЛСОВ	Абрамов	Филипп	Петрович
АО Интерпрайзис	Филиппов	Михаил	Николаевич
СП Людмила	Ивашенко	Людмила	Петровна
ТОО Арком	Мельников	Андрей	Анатольевич
СП Сервис-плюс	Николаев	Филипп	Петрович
ТОО Стингер	Никифоров	Андрей	Анатольевич
АО Компонент	Куцкина	Дарья	Ивановна
АО Микрон	Афанасьев	Виктор	Михайлович
АО Микросервис	Нуралиев	Сергей	Иванович
О-фис-Сервис	Смирницкий	Максим	Сергеевич
АО РосКом	Смеков	Андрей	Михайлович
АО Фантом	Райский	Максим	Сергеевич
АО Интерсервис	Антонов	Юрий	Юрьевич
АО Интерсервис-Плюс	Сухариков	Андрей	Петрович
АО Интерплюс	Проховщиков	Александр	Иванович
ТОО Сергей	Казанский	Сергей	Иванович
АО Огни Москвы	Германский	Анатолий	Васильевич
ТОО Владлен	Сухорученко	Владимир	Иванович

Standard

. 14.17.



6

Visual FoxPro,

Visual FoxPro

Grid (),



".

).

Customer

Grid ()

Grid (

- 1. sales.
- 2. **Documents** (), **Forms**
(), New ().
- 3. **New Form** () -
New Form () -
- 4. **Data Environment** () -
, **Environment** () View ().
- 5. **Add** ().
- 6. **Add Table or View** (Customer
)
Data Environment () -
- 7. **Builder Lock** ()
Form Controls ().
- 8. **Grid** () **Form**
Controls ().
- 9. ,
- 10. **Builder** () (. 15.1), **Grid**
Grid ().
Grid ()
(. 15.1).

15.1.

Grid Builder

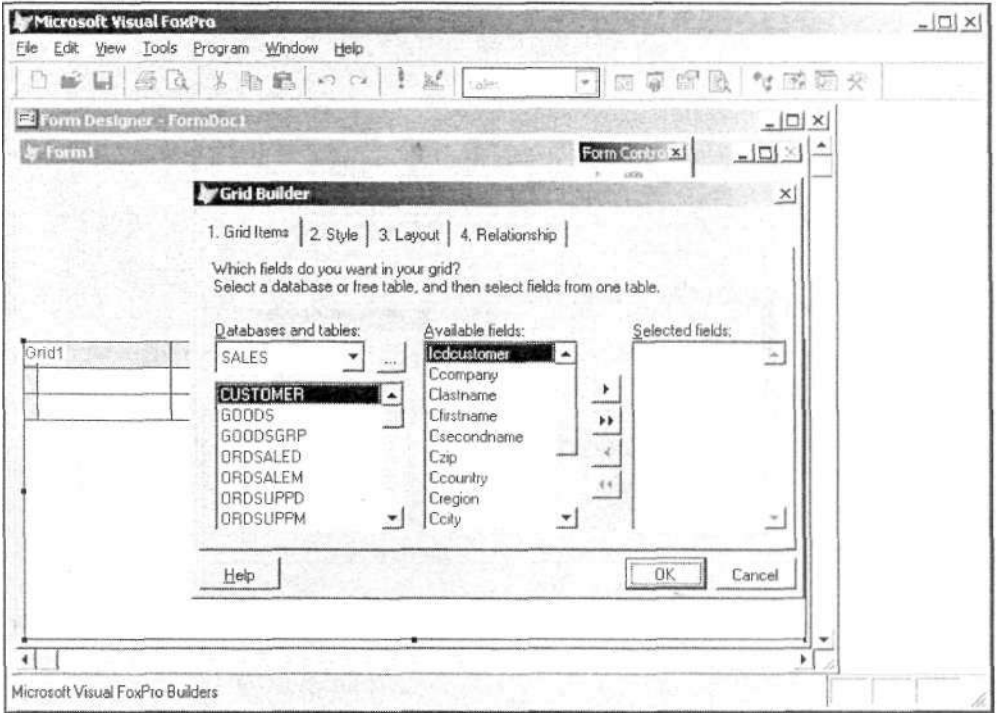
Grid Items (Grid)

Style ()

: **Professional** () -
, **Standard** () -
, **Ledger**()

Layout () Grid ()

Relationship ()



. 15.1. Grid Builder

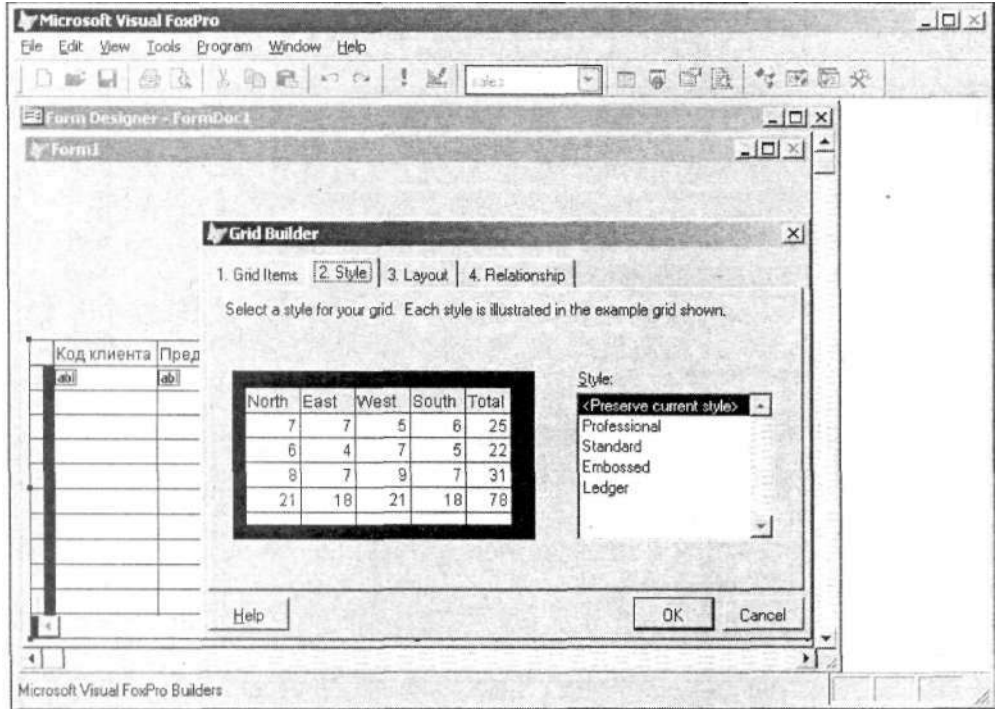
11. Available fields () Selected fields () Grid ()

12. Style (). (. 15.2).

13. caption () Grid (),

Layout () (. 15.3).

Caption ()



. 15.2.

Grid

14. Layout ()

Control type (),

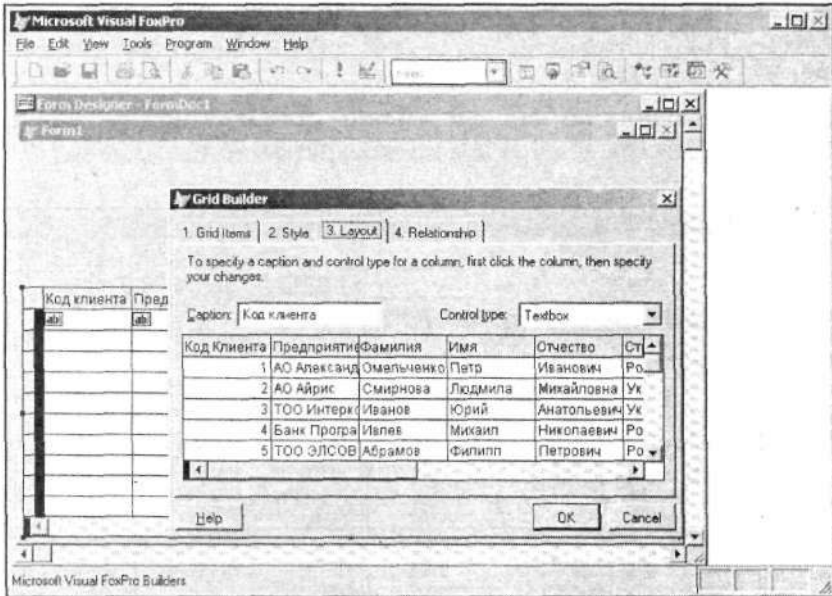
Editbox, Spinner, checkbox OLEBoundControl.

: Textbox,

Замечание

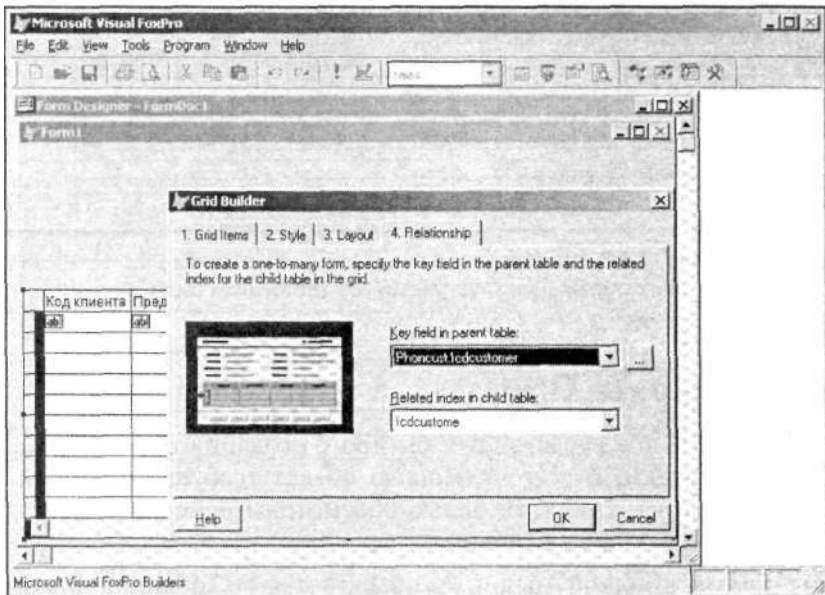
Grid ()
Relationship () (. 15.4)

), Key field in parent table (Open ())



. 15.3.

Grid



. 15.4.

Relationship

15.

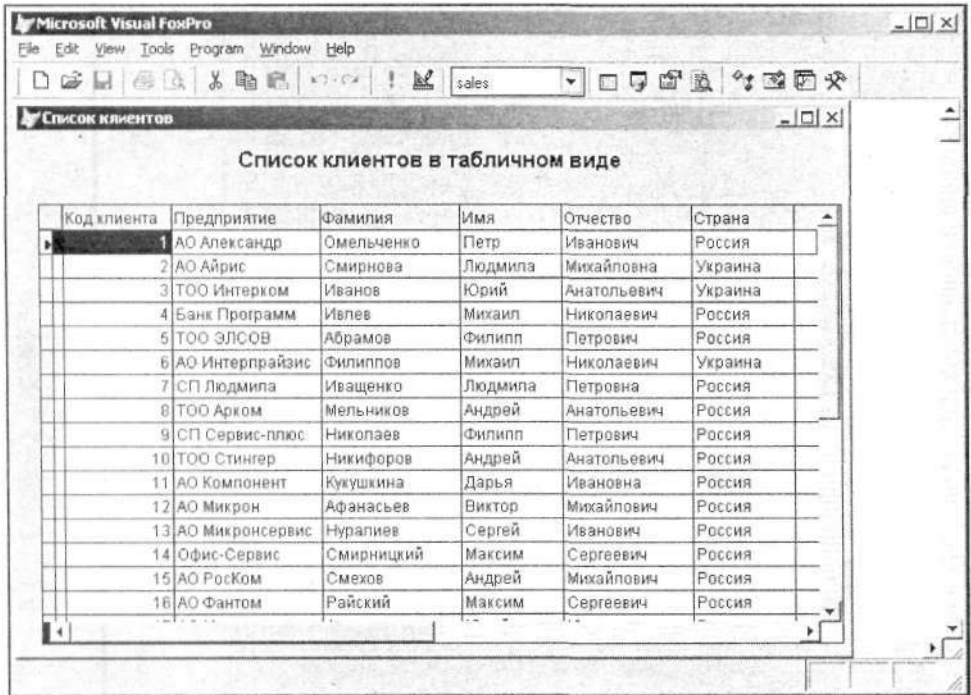
16. **Label** ()**Form Controls** (),

. 15.5

Grid (-

).

Customer



. 15.5.

Grid

Grid

).

Grid (-

Grid ()).

Grid ()).

Edit (),

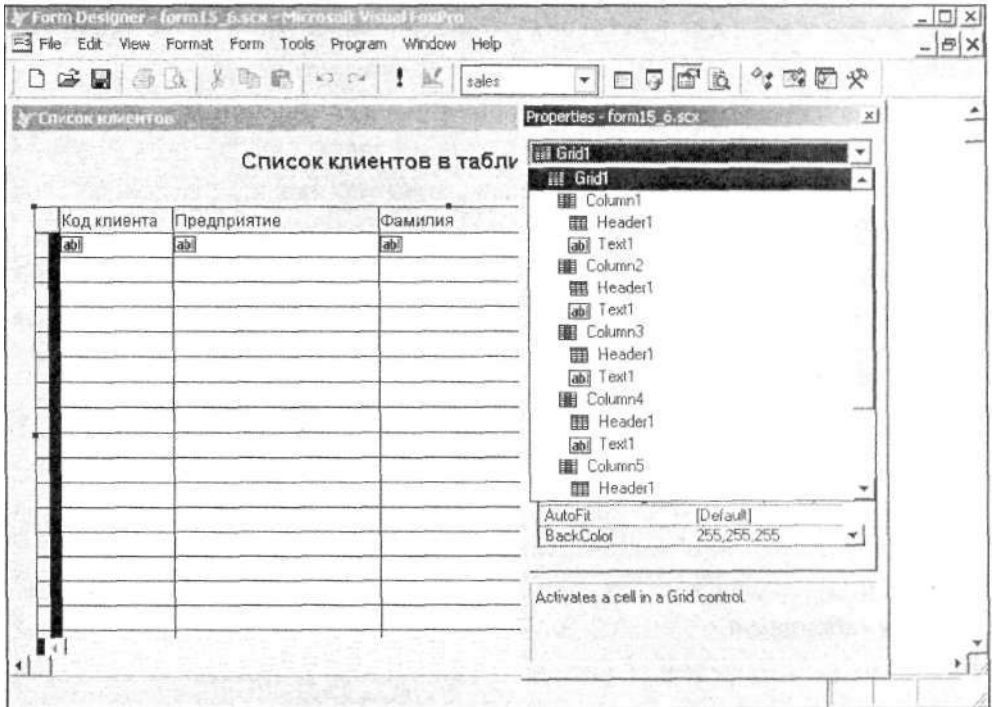
column (), Header ()
 Text (). Grid ()
 (. 15.6).
 Column (), Header
 () Text ()
 . 15.2.

15.2.

Column ()

Header ()

Text ()



. 15.6.

Grid

```

, Grid
Grid
( ) . : Grid
• ColumnCount — Grid ( );
• GridLinewidth — ;
• GridLineColor — ;
• GridLines — ;
:
• None ( ) — ;
• Horizontal ( ) — ;
• Vertical ( ) — ;
• Both (Default) ( ) — ;
• Recordsource — ;
• RecordSourceType :
• Table ( ) — , RecordSource;
• Alias ( ) — ;
• Prompt ( ) — ;
Grid ( );
• Query (QPR) ( ) — ;
• SQL statement (SQL ) — SQL ;
• ChildOrder — , ;
• RecordMark Grid ( - ) , .

```

Column

```
column ( ) , Grid ( )
Grid ( ) .
```

```
column ( ), , , -
-
```

```
column ( ) -
```

```
:
```

- ColumnOrder — ;
- Alignment — ;
- ControiSource — .

Header

```
Grid ( ) , Header ( ) . Visual -
```

FoxPro

```
caption ( ) .
```

```
, Alignment ( )
```

```
, Header ( ), column ( ),
```

```
, ,
```

Text

```
Text ( ) ,
```

```
Grid ( ),
```

```
.
```

```
, ,
```

```
." " ' -
```

```
." " " -
```

```
." " " -
```

```
." " " -
```

" "

Grid (),

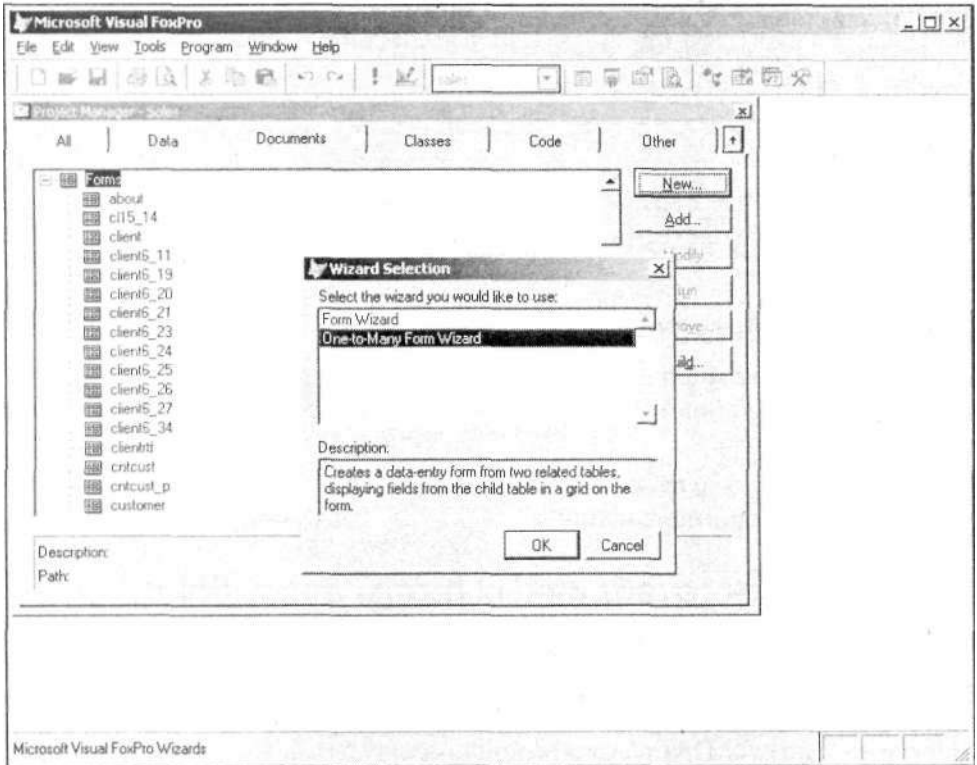
Grid ().

Customer Phoncust, Customer Phoncust

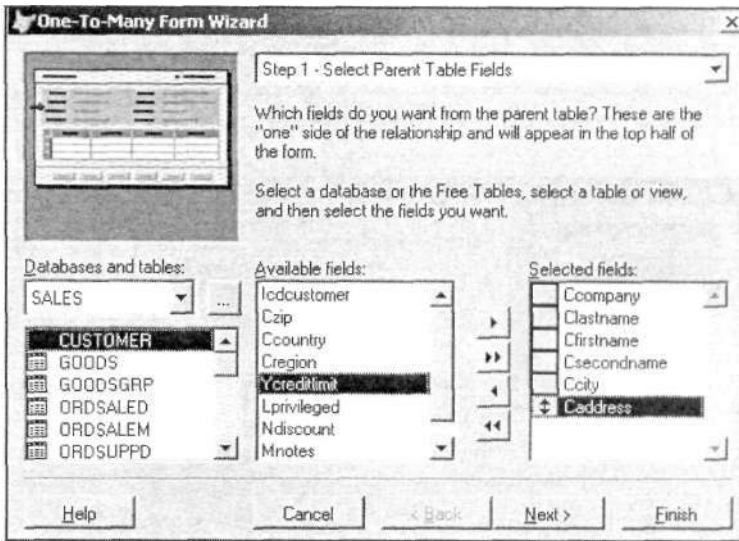
1. sales.

2. Documents (), Forms () New ().

3. New Form () Form Wizard ().

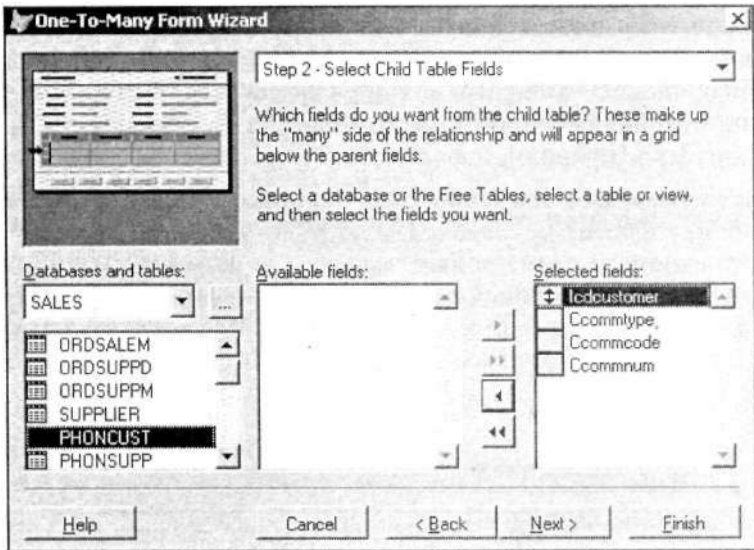


4. (. 15.7). **One to Many Form Wizard** ()
5. **Databases and tables** ()
- fields** () **Available**
- Selected fields** ()
- (. 15.8). **Next** ()



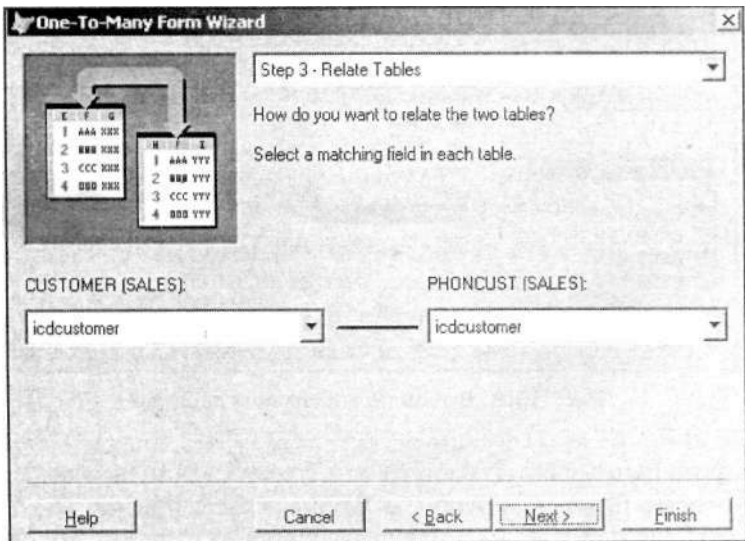
. 15.8.

6. (. 15.9). **Grid** ()
- Next** ().
7. (. 15.10).
- icdCustomer Customer icdCustomer
- Phoncust. **Next**
- ().



. 15.9.

Grid



. 15.10.

8.

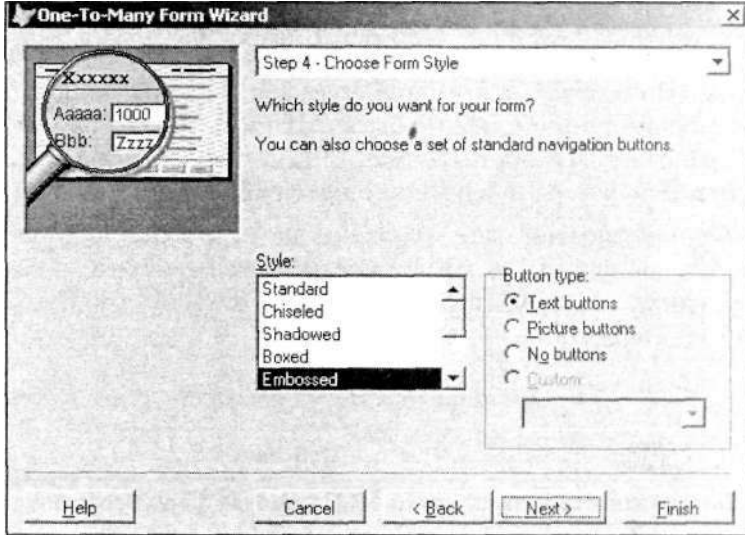
(. 15.11)

(),
type ().

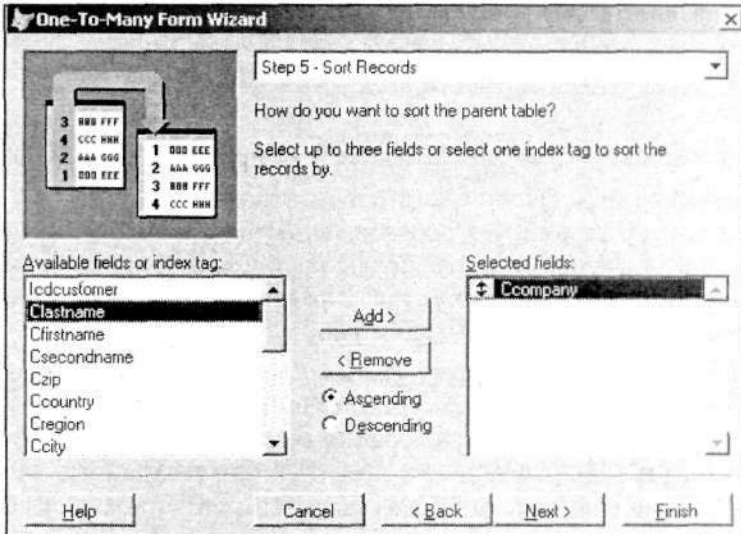
-
Style
Button

).
No buttons

Next ().



. 15.11.



. 15.12.

9. Available fields or index tag ()
 Selected fields ()
 Add ().
 Selected fields ()
 Remove ().
 Ascending () Descending (),
 (. 15.12).
 Next ().

10. Type a title for your form (-
 (. 15.13) (. 15.3).

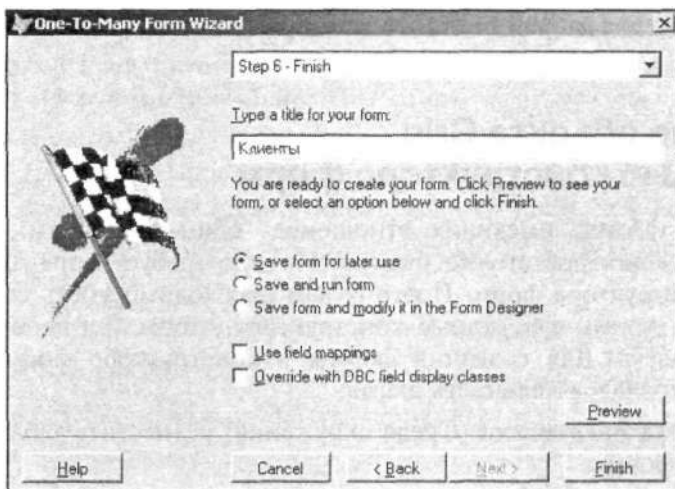
15.3.

- Save form for later use ()
- Save and run form () -
- Save form and modify it in the Form Designer () -

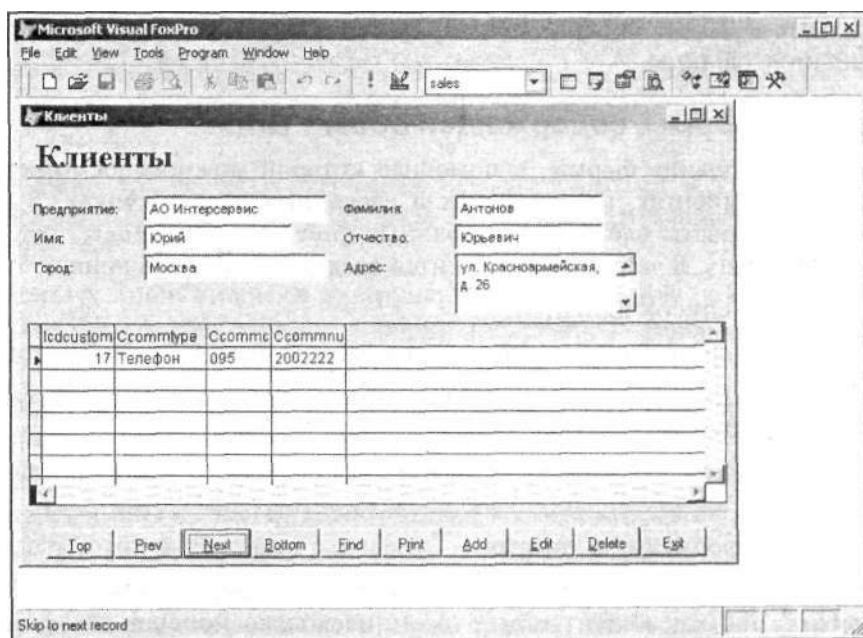
- Use field mappings ().
 Mapping () Options ();
 Field
- Override with DBC field display classes (), -
 () Display class () Fields Map
 field type to classes ().
 Use field mappings.

Finish ()

Save as ()



. 15.13.



. 15.14.

(. 15.14).

Caption ()

Grid ()

Grid

1. **Data Environment** ()

2.

3.

4. Grid ()

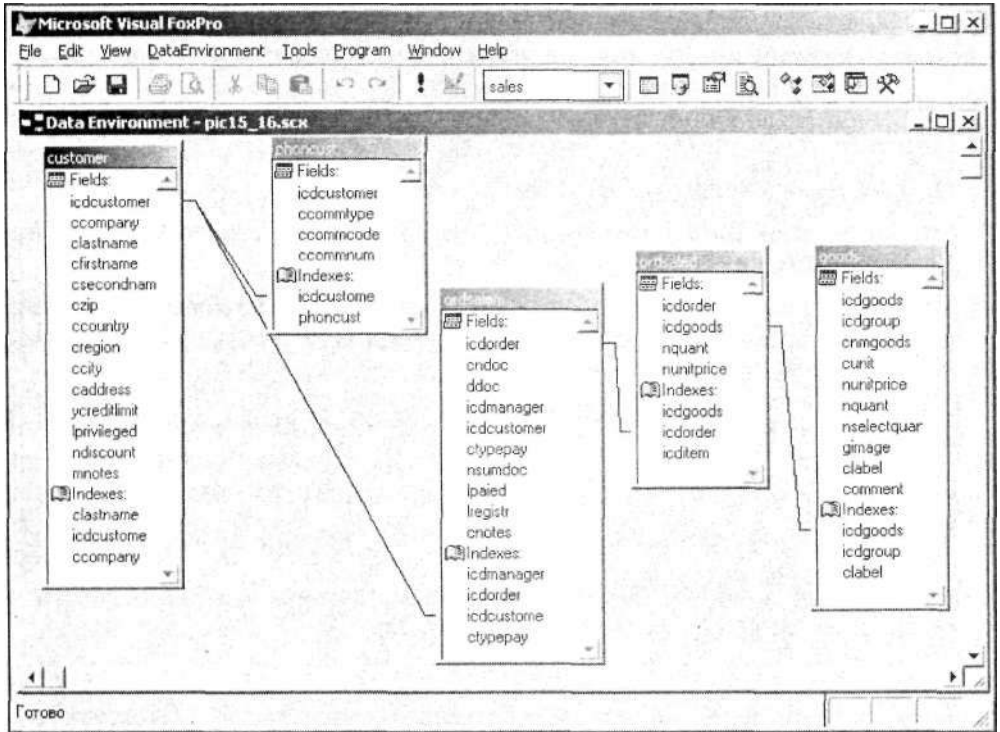
Grid

Ordsaled Goods.

- Customer ;
- Phoncust — , ;
- Ordsalem — : , , - ;
- Ordsaled — , ;
- Goods — Customer Phoncust "

Customer Ordsalem " ",

1. sales.
- 2.
3. **Data Environment** (),
Environment () **View** ().
4. **Add** () **Data Environment** (-
Customer, Phoncust, Ordsalem,
Ordsaled Goods. :
• Customer — Phoncust
Ordsalem;
• Ordsalem — Ordsaled;
• Ordsaled Goods.
:
• Customer Phoncust — ;
• Customer Ordsalem — ;
• Ordsalem Ordsaled — ;
• Ordsaled Goods — .
customer, Ordsalem Phoncust -
, Ordsaled — , Goods —
5. (. 15.15), **Data Environment** (-
)
6. **Form Controls** (-
)
Customer.
7. **Grid** () **Form Controls**
().
8. ,
, -
.
9. **Properties** () **View**
().



. 15.15. Data Environment

10. ColumnCount ()
Grid (), -
 3.
11. GridLineColor () Grid ().
12. ControlSource ()
 Column (), Grid (),
 Phoncust.
13. caption () Header
(), Grid (), -
 , .
 Alignment (), Middle Center (-
 ,).
 Grid () .
 Grid ().

14. **Grid** () **Form Controls**
 ().

15. , , -

16. -

17. **ColumnCount** ()
Grid (), (6) .

18. **GridLineColor** () **Grid** ().

19. **ControlSource** ()
Column (), **Grid** (), -
 :

- **cnDoc** **dDoc**
- **Ordsalem;**
- **cnmGoods** **Goods;**
- **nQuant** **nUnitPrice**

Ordsaled.

20. , -
ControlSource () **column** (-
), :

Ordsaled.nQuant*Ordsaled.nUnitPrice

21. **caption** ()
Header (), **Grid** (), -
 : , , -
 , .
 , **Alignment** (-
), **Middle Center** (,).

22. **ForeColor** **Text** (),
Grid (), (, -
) .

23. . -

. 15.16.

24. , **Grid**
Customer .
 () , **Grid** ()
 , (. 15.17).

Microsoft Visual FoxPro

File Edit View Format Form Tools Program Window Help

sales

Form Designer - pic15_16.scr

Клиенты и продажи

Клиенты и продажи

Код покупателя:

Фамилия:

Предприятие:

Вид связи	Номер кода	Номер
Телефон	095	200-78-91
Факс	095	234-56-78

Номер док-та	Дата	Наименование товара	Количество	Цена	Стоимость
5	11.04.03	Холодильник ДАЕВУО ERF-34	14	1350.00	18900.00
7	11.04.03	Музыкальный центр Panasonic	1	438.00	438.00
650	12.12.02	Холодильник "Стинол 116L"	5	1579.00	7895.00
678	12.12.02	Холодильник "Атлант МХМ"	2	1030.00	2060.00

Первая Предыдущая Следующая Последняя Выход

. 15.16.

Microsoft Visual FoxPro

File Edit View Tools Program Window Help

sales

All Data Documents Classes Code Other

Клиенты и продажи

Клиенты и продажи

Код покупателя:

Фамилия:

Предприятие:

Вид связи	Номер кода	Номер
Телефон	095	200-78-91
Факс	095	234-56-78

Номер док-та	Дата	Наименование товара	Количество	Цена	Стоимость
5	11.04.03	Холодильник ДАЕВУО ERF-34	14	1350.00	18900.00
7	11.04.03	Музыкальный центр Panasonic	1	438.00	438.00
650	12.12.02	Холодильник "Стинол 116L"	5	1579.00	7895.00
678	12.12.02	Холодильник "Атлант МХМ"	2	1030.00	2060.00

Первая Предыдущая Следующая Последняя Выход

Готово

. 15.17.

Grid

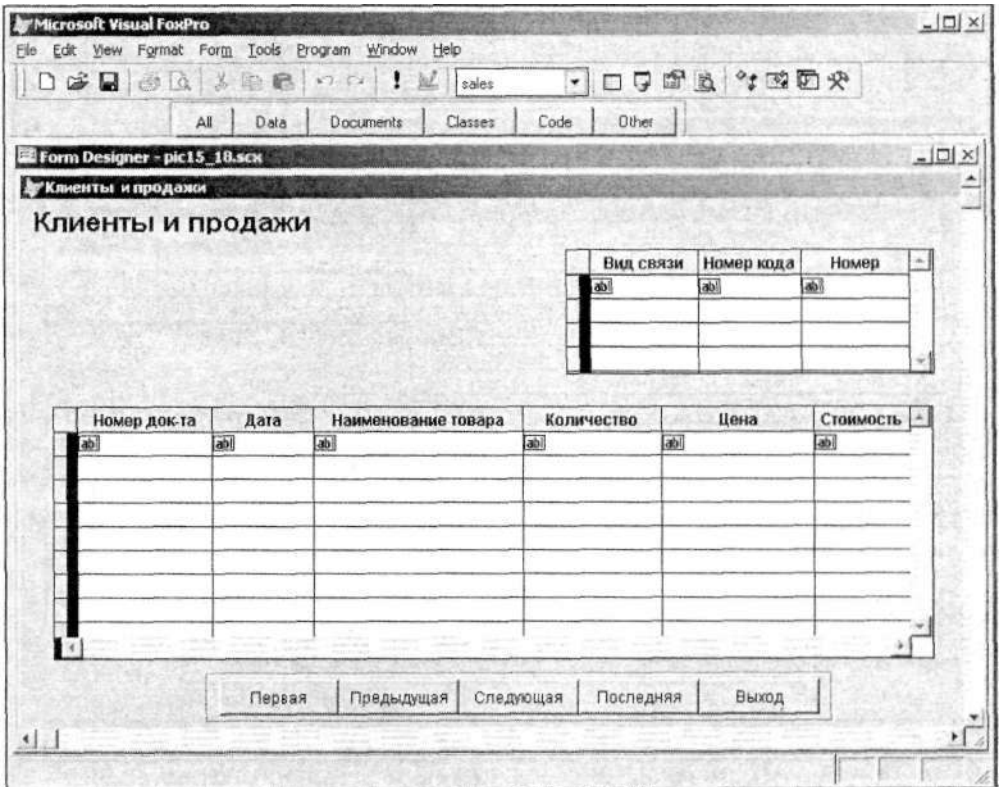
Customer Grid ().

1.

2.

() (. 15.18).

Grid



. 15.18.

3. Grid ()

Form Controls

(),

Grid ().

4.

Grid

() ColumnCount (),

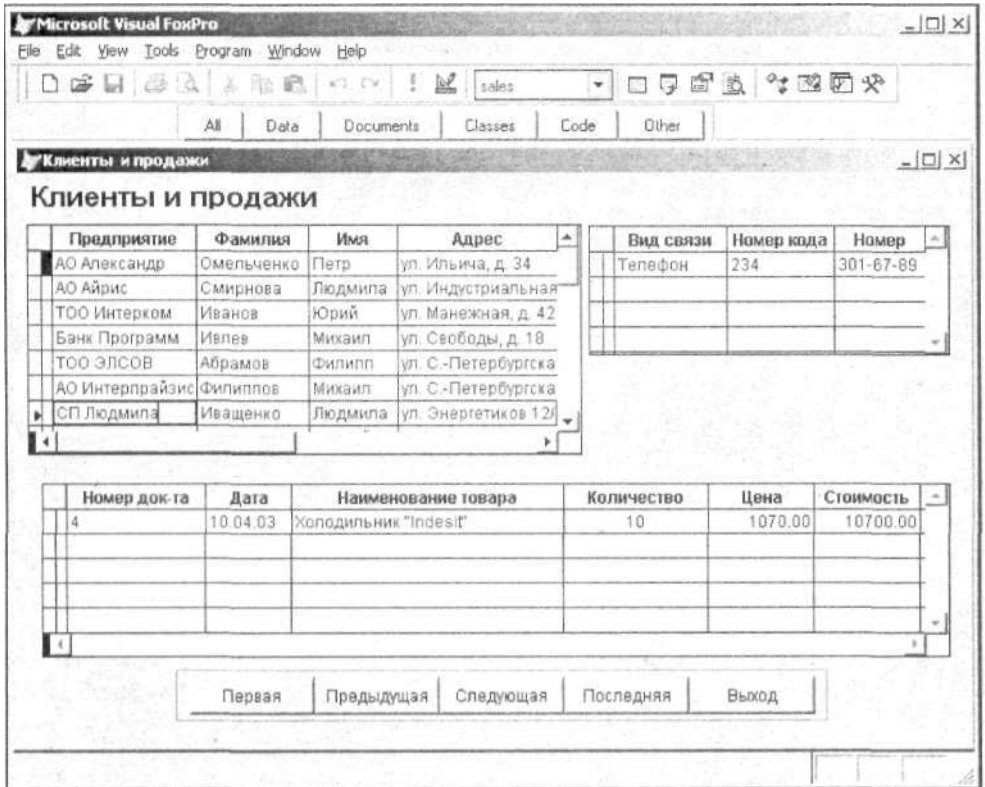
(4)

5. cCompany, cLastName, cFirstName
cAddress Customer.

6. , , ,

7. .


15.19.

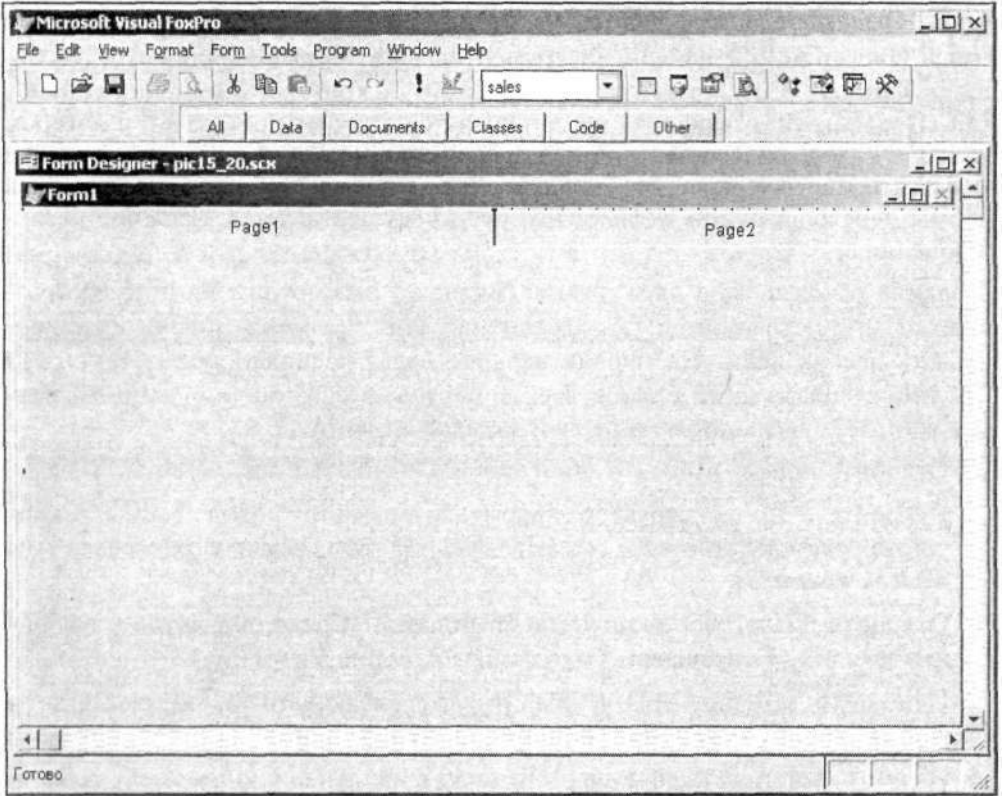


15.19.

Grid

Visual FoxPro

			Page
Frame ()			-
Edit (),			-
	PageCount ()		-
	Page Frame ()		-
		customer.	-
			Grid
(),			-
1.	sales.		-
2.			-
	caption ()		-
3.		Data Environment (),	-
	Environment ()	View ().	-
4.	Add ()		-
	customer.		-
5.	Page Frame ()		Form
Controls ()			-
6.			-
			-
		(. 15.20).	-
8.			-
PageCount ,			-
	2.		-
9.	caption ()		Pagei
2,			Pagei
			2 — -
10.		Page Frame ()	-
	Edit ()		-
11.			Page Frame
()			-

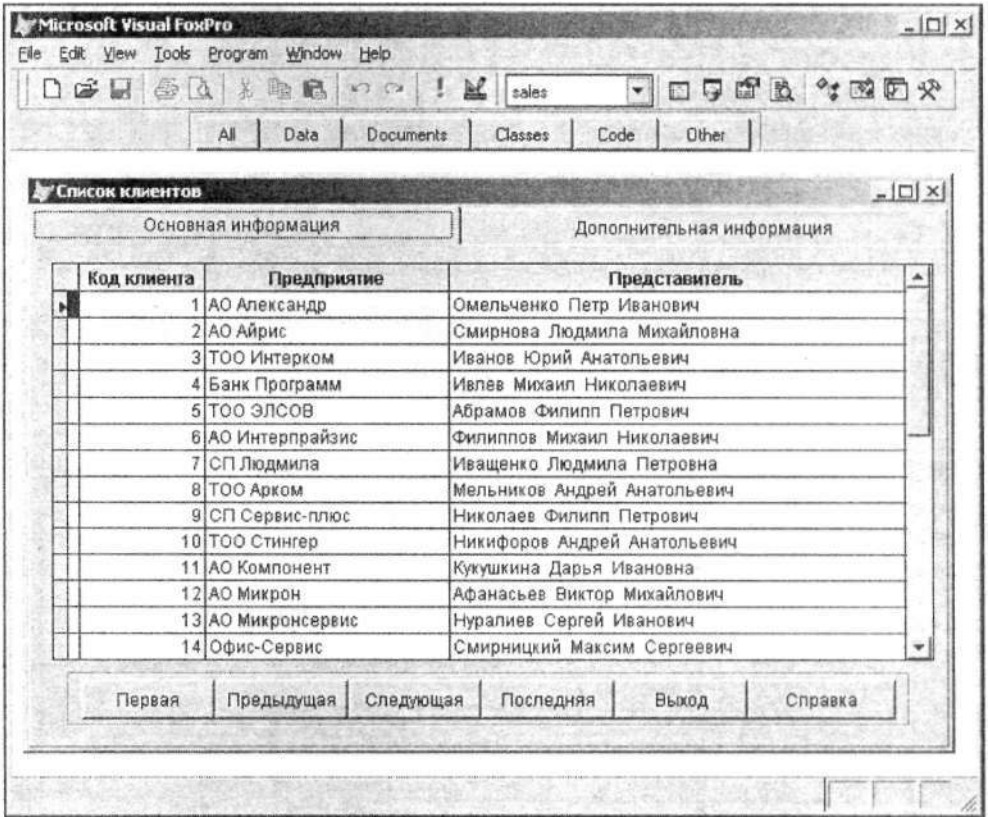


. 15.20.

Page Frame

12. **Grid ()** **Form Controls**
 (), Grid ()
 icdCustomer, cCompany Customer.
13. ,
 ControlSource ()
 :
 alltrim(customer.cLastname) + " " + alltrim(customer.cFirstname) +
 " " + alltrim(customer.cSecondname)
14. Grid ().
15. -

. 15.21



. 15.21.

16. Page Frame ().

Совет

Page Frame ()

17. Customer

18. Activate () Page Frame ().

Refresh

():

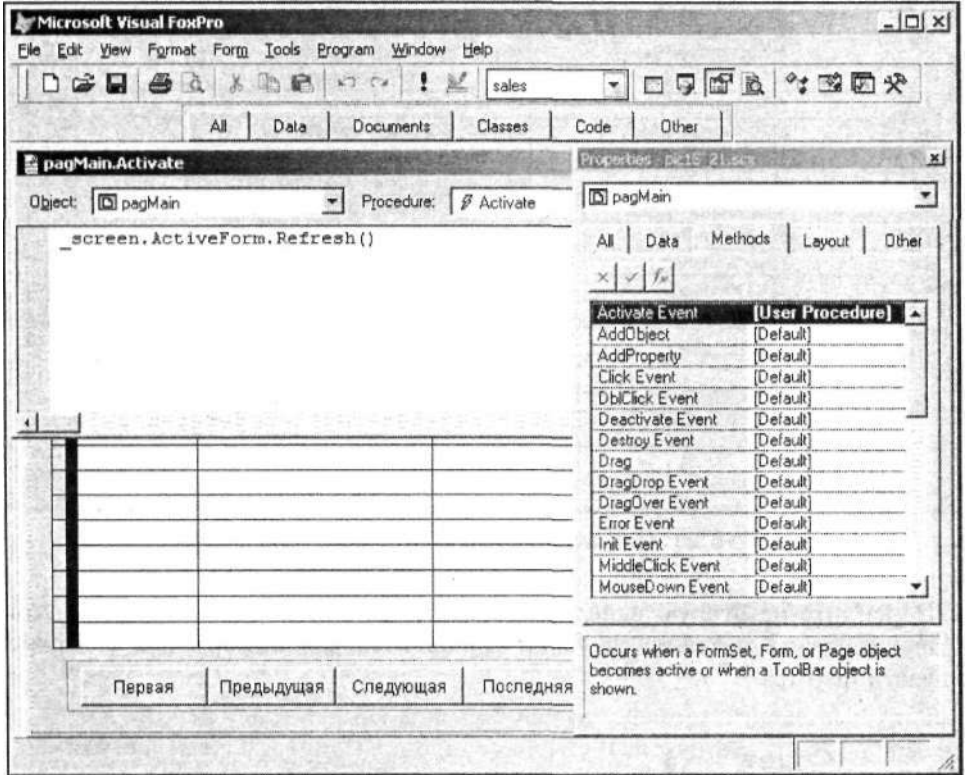
_screen.ActiveForm.Refresh()

Refresh

. 15.22.

Замечание

[user Procedure].



. 15.22.

Refresh

19.

(. 15.23),

Microsoft Visual FoxPro

File Edit View Tools Program Window Help

sales

Список клиентов

Основная информация Дополнительная информация

Предприятие | АО Айрис Сюдка | 20.00

Фамилия | Смирнова Имя | Лариса Отчество | Михайловна

Индекс | 270005 Город | Одесса

Страна | Украина Адрес | ул. Индустриальная, д. 23

Примечание

Первая | Предыдущая | Следующая | Последняя | Выход | Справка

Customer (Sales\Customer) Record: 6/32 Record Unlocked NUM

. 15.23.

Visual FoxPro

Create Form Set () **Form**
 (), **FormSet.**

FormSet
 customer, —

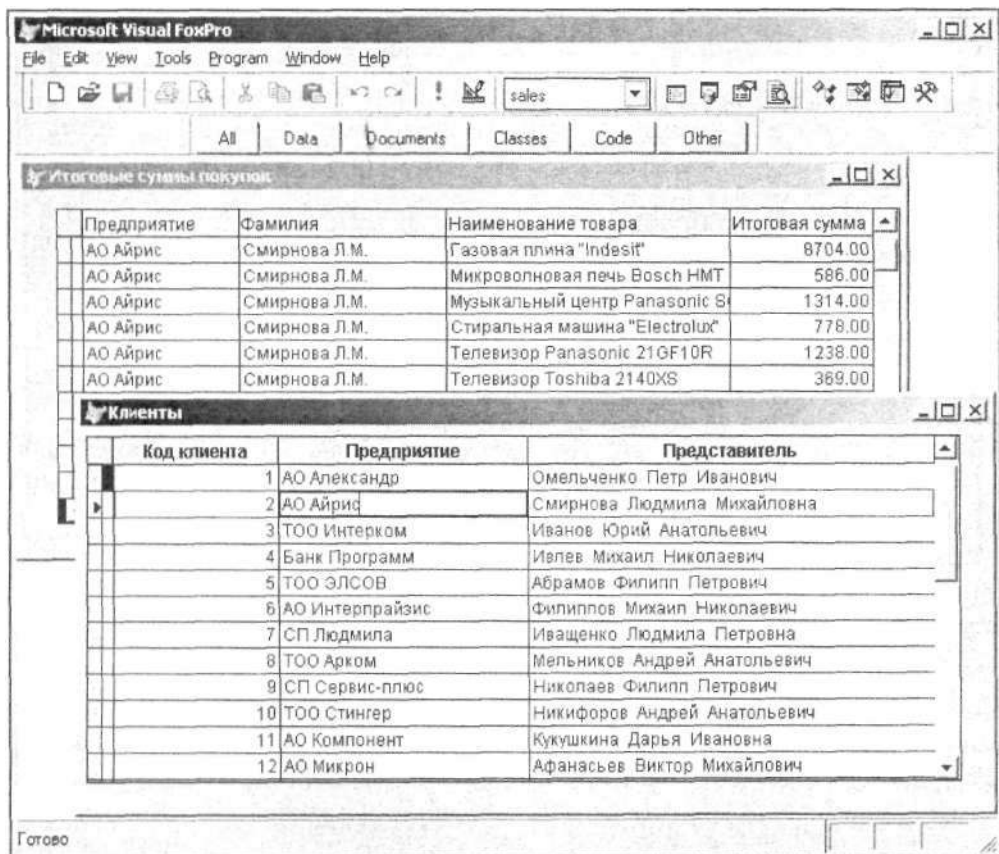
1. Sales.

2.

3. **Form** () **Create Form Set** ()
).

4. **Data Environment** () —
 customer Sumcust, —

5. Caption () ,
6. Grid () ,
Customer.
7. **Add New Form** ()
Form () .
8. caption () ,
9. Grid () ,
Sumcust.
10. ,



11. , **Save** () -

12. .

13. (. 15.24).

Visual FoxPro , -

Timer () 

Form Controls () .

. 15.4.

15.4.

Timer

Interval () •

Enabled () **True** (), -

(-

Timer () -

Timer (), interval () -

Reset (), -

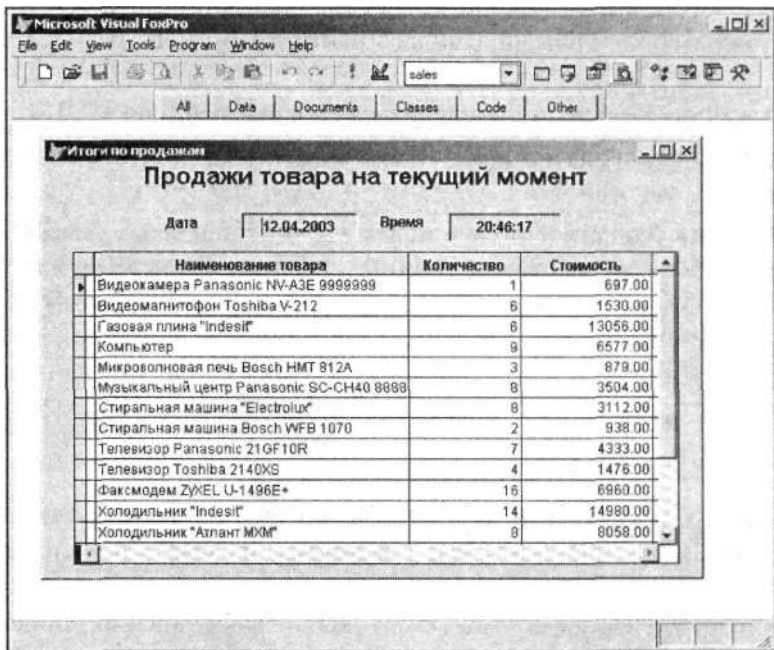
```

,
.
:
1. Sales, Goods, Ordsaled Ordsalem,
,
2.
3.
4.
5.
6. Grid ( ),
7.
curDate CurTime.
ReadOnly ( ), True ( ).
8. Timer ( )
Form Controls ( )
9. Timer ( ).
10. CurDate CurTime,
:
This.Parent.CurDate.Value = DATE ( )
This.Parent.CurTime.Value = TIME ( )
This.Parent.CurDate.Refresh()
This.Parent.CurTime.Refresh()
ThisForm.Grid1.Refresh()
11.
interval ( ),
10
600000.
12.

```



. 15.25.



. 15.26.

. 15.25

. 15.26 —

6
)

ListBox (

customer.

1.

2.

Controls (

List Box ()



Form

3.

4.

5.

IstCity.

Name ()

6.

ControiSource ()

Customer,

7.

Customer cCity.

RowSourceType (),

(),

Value

8.

Form Controls (

Text Box (

)



),

9.

txtAddText.

Name ()

10. Keypress (), -

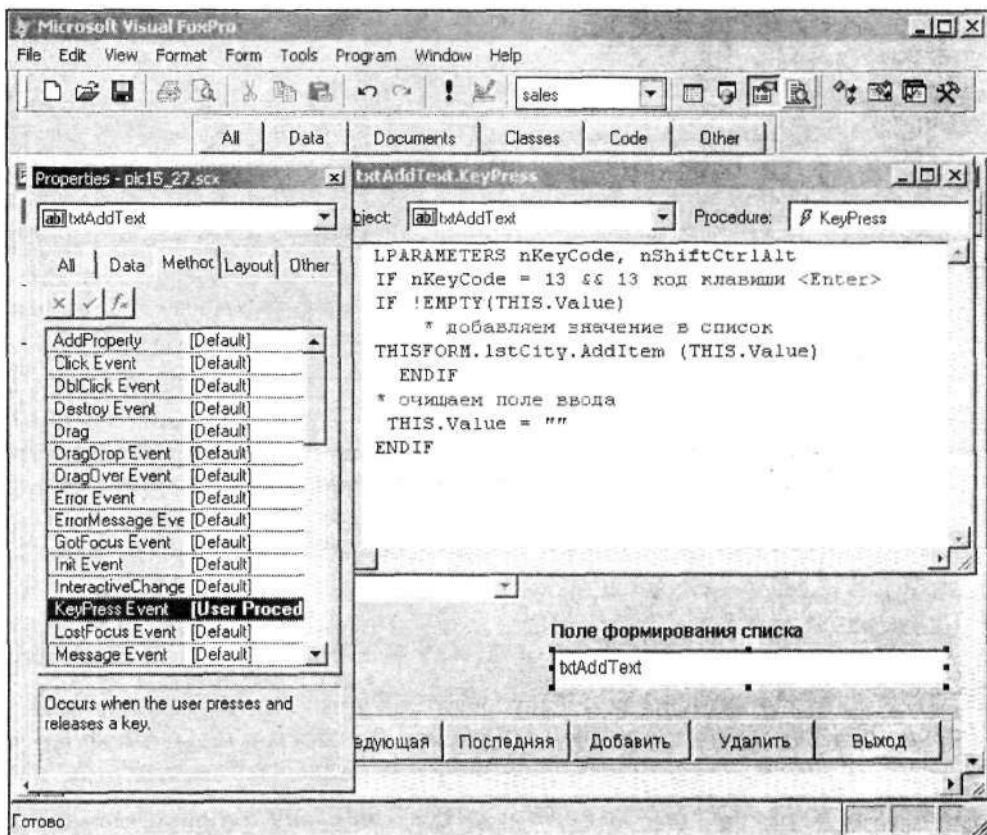
```

LPARAMETERS nKeyCode, nShiftCtrlAlt
IF nKeyCode = 13 && 13      <Enter>
IF !EMPTY(THIS.Value)
*
THISFORM.lstCity.AddItem (THIS.Value)
ENDIF
*
THIS.Value = ""
ENDIF

```

<Enter>

(. 15.27).



. 15.27.

KeyPress

(. 15.28).

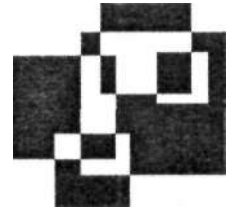
<Enter>

The screenshot shows the Microsoft Visual FoxPro application window. The title bar reads "Microsoft Visual FoxPro". The menu bar includes "File", "Edit", "View", "Tools", "Program", "Window", and "Help". The toolbar contains various icons for file operations and editing. Below the toolbar is a tabbed interface with tabs for "All", "Data", "Documents", "Classes", "Code", and "Other". The active window is titled "Ввод списка клиентов" (Client List Input) and contains a form titled "Клиенты" (Clients). The form has the following fields:

Код клиента	5		
Фамилия	Абрамов	Индекс	173003
Имя	Филипп	Город	Воронеж
Отчество	Петрович		
Предприятие	ООО ЭЛСОВ		
Примечание			

Below the form is a section labeled "Поле формирования списка" (List Formation Field) with a text input containing "Орел". At the bottom of the form are several buttons: "Первая" (First), "Предыдущая" (Previous), "Следующая" (Next), "Последняя" (Last), "Добавить" (Add), "Удалить" (Delete), and "Выход" (Exit).

. 15.28.




ActiveX

Foundation Classes, Visual FoxPro
 Foundation Classes, Visual FoxPro.
 ActiveX

Form Controls
 Class Browser (

Form Controls

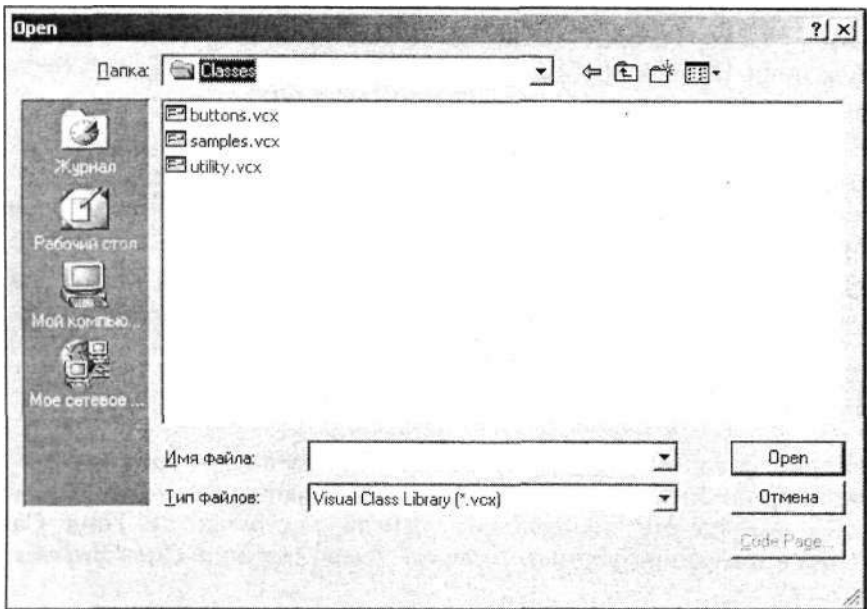
Form Controls (

1. View Classes ()
 Form Controls ()

- 2. Add () - Add
- ().
- 3. Open () (. 16.1), -
- 4. , Classes (- Visual FoxPro.
- 5. Buttons (), Visual FoxPro, Open ()

Замечание

VCX.



. 16.1.

Open

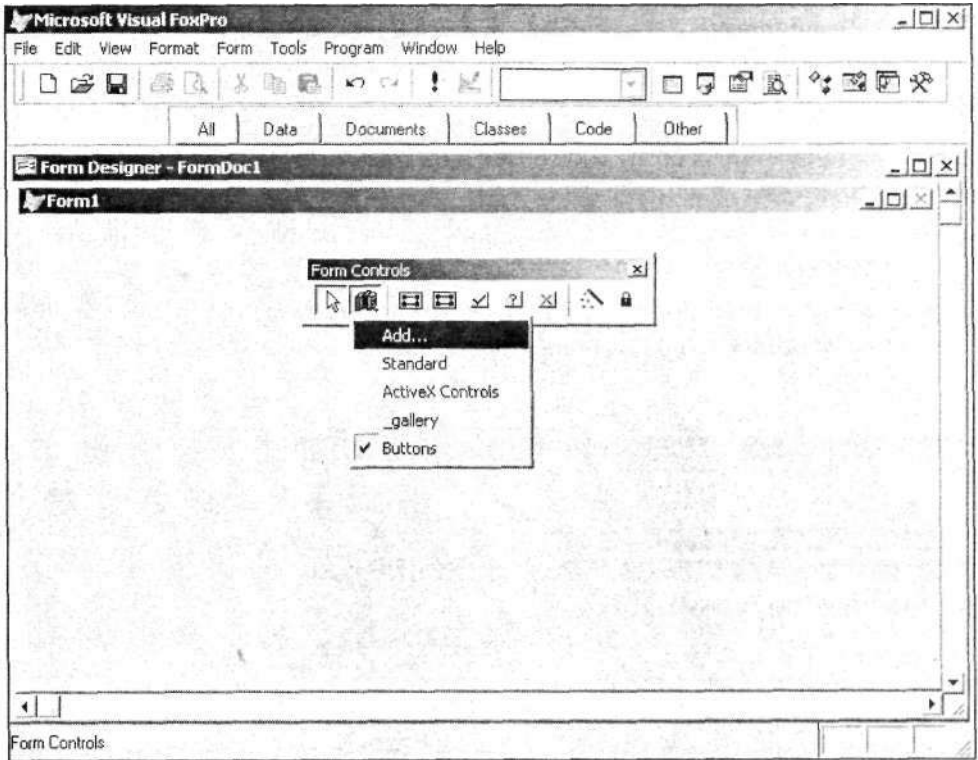
Замечание

-) View Classes (-
-) Form Controls (-
- (Buttons ()).

6.

Form Controls ()

(. 16.2).



. 16.2.

View Classes

Buttons ()

. 16.1.

16.1.

Buttons



mailbtn



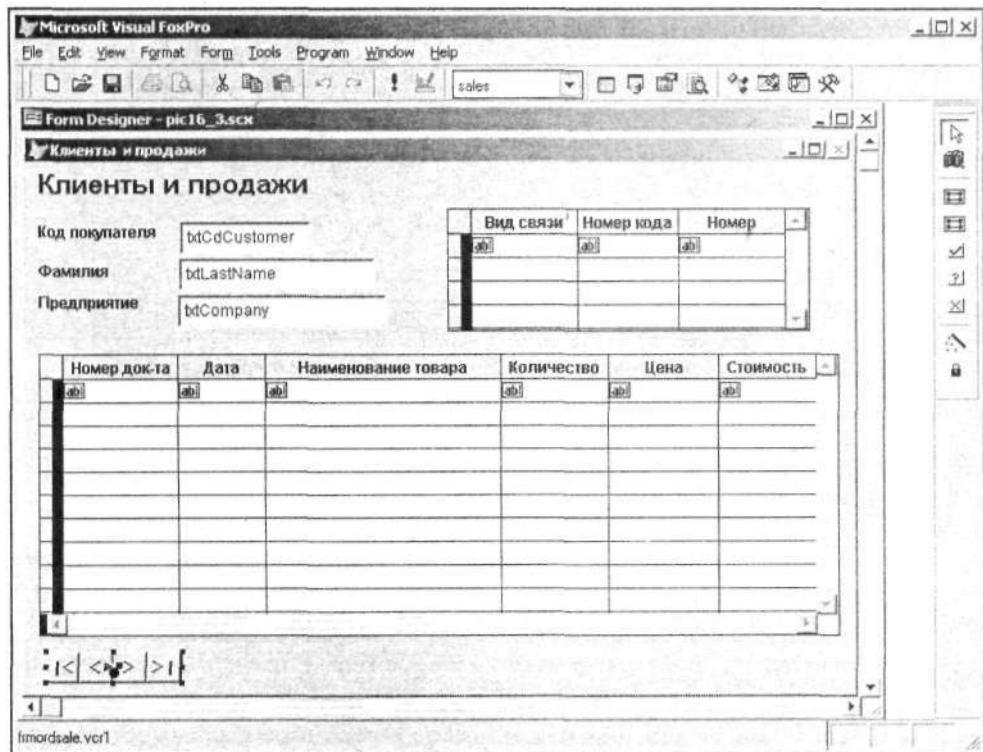
vcr

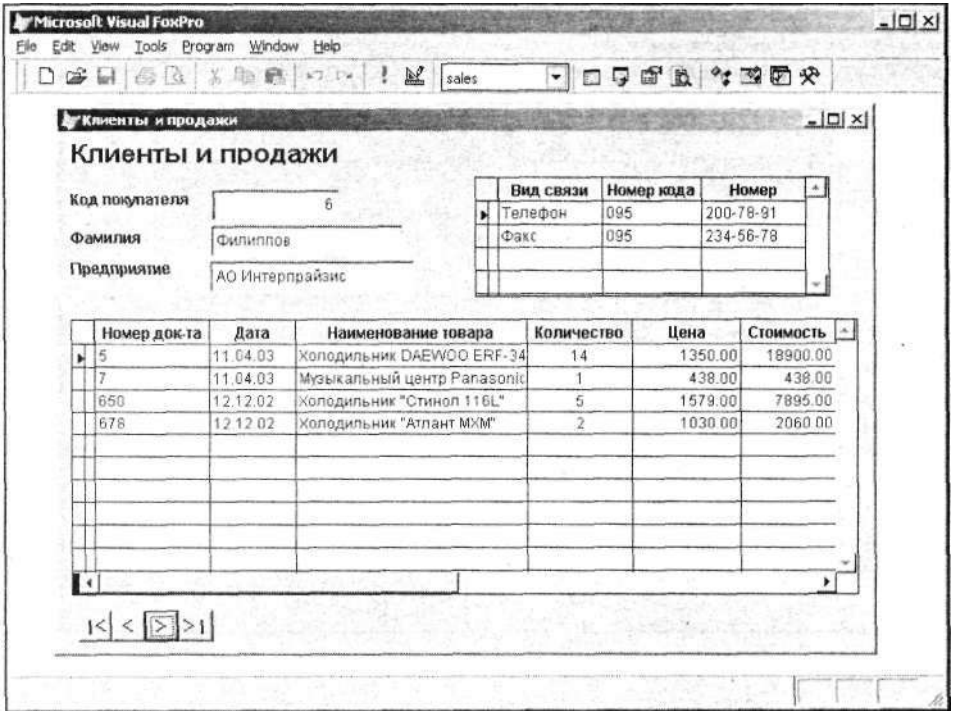
<input checked="" type="checkbox"/>	cmdok	
<input type="checkbox"/>	cmdHelp	Help
<input type="checkbox"/>	cmdCancel	Cancel

1. Sales

2. , -

3. vcr Form Controls
 (. 16.3).





. 16.4.

vcf

4.

(. 16.4).

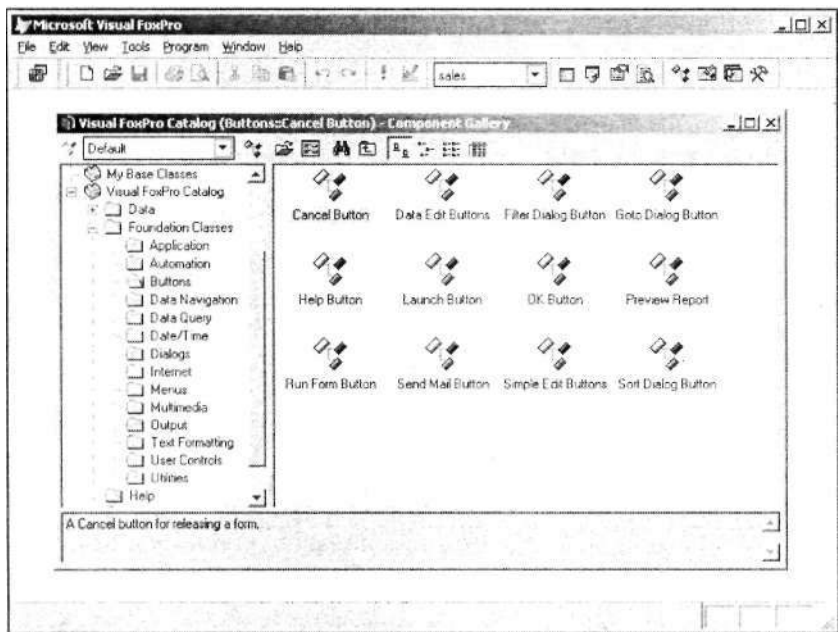
Visual FoxPro

Foundation Classes (. 16.5),

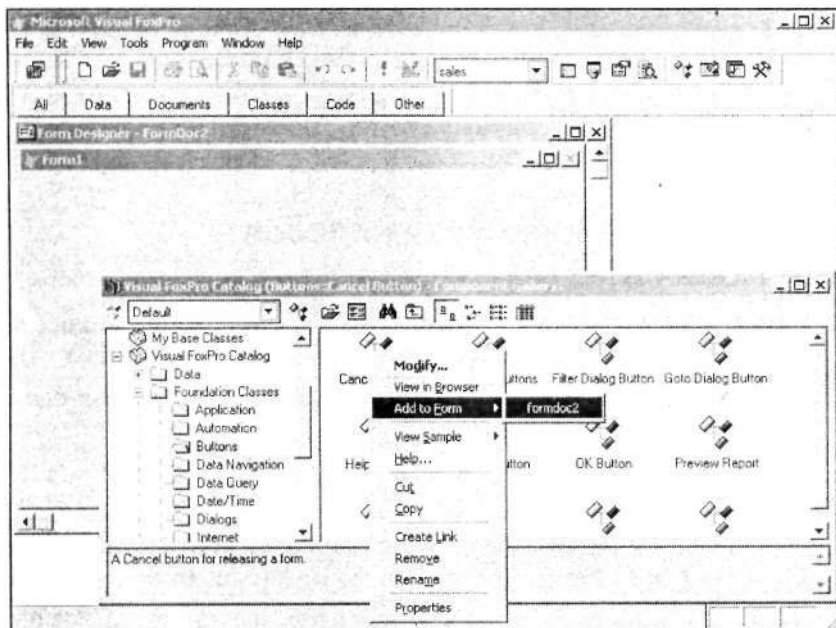
Add to Form () (. 16.6).

Move

(),



. 16.5. Foundation Classes

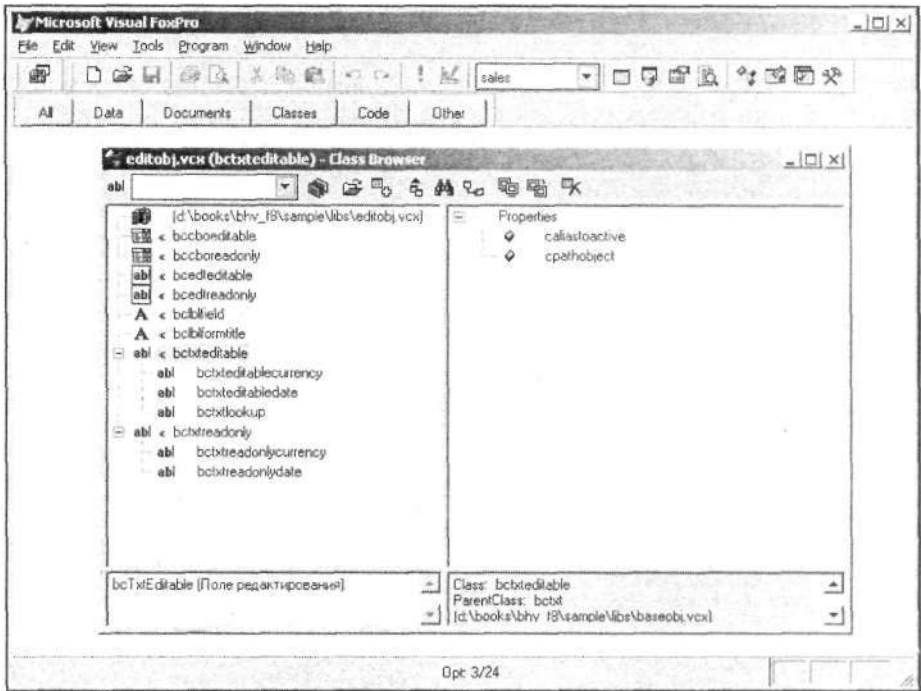


. 16.6.



Замечание

Class Browser

Class Browser () (. 16.7)
 Class Browser ()
 Tools ()

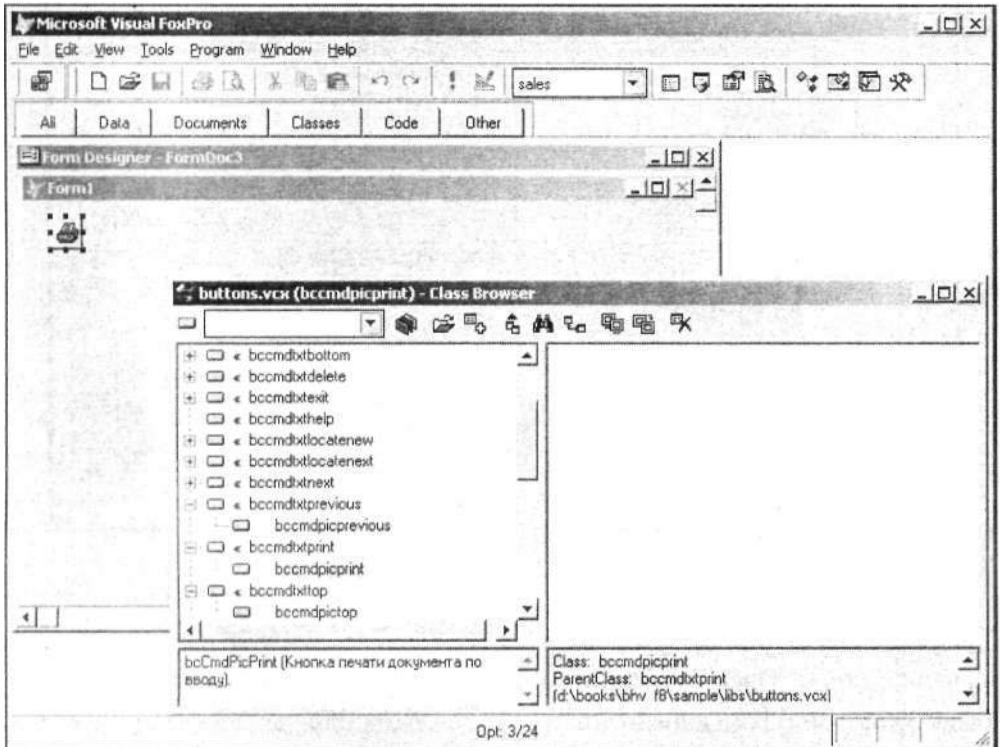


. 16.7. Class Browser

Class Browser ()
 Open ()  View Additional File ()
 Open () (. 16.1),
 Class Browser ()

Class Browser (

1.), :
2. Class Browser () ,
3. Move (),
Class Browser (-
4. Move ().
5. ,
6. , . 16.8.



. 16.8.

Class Browser

ActiveX

ActiveX

32

Visual FoxPro, ActiveX

Visual C++

Visual Basic.

Visual FoxPro.

Visual Studio

Microsoft Office.

ActiveX

Options (

),

:

1. **Tools** () **Options** ().

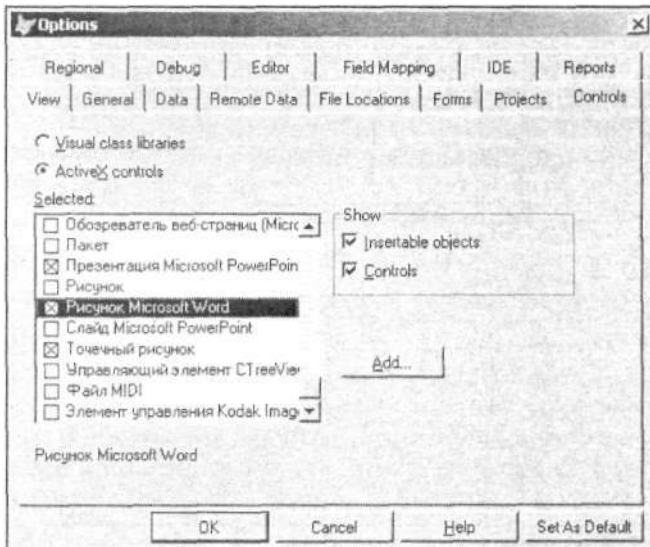
2. **Options** () **Controls** (

).

3. **ActiveX controls** (ActiveX).

Selected ()

ActiveX



- 4. Selected, Form Controls ((. 16.9).
- 5. Options (-).


Замечание

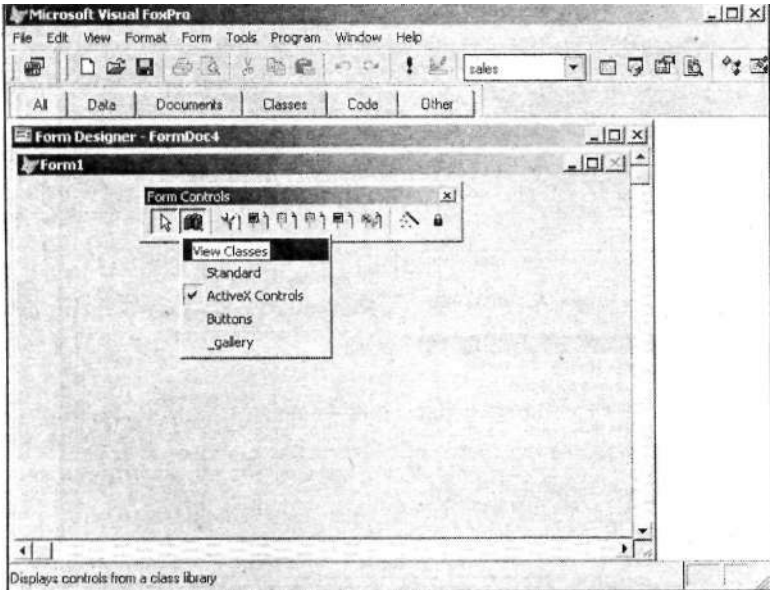
Add () Controls ()
 Options () Selected.
 Open (), ActiveX

ActiveX

Form Controls

ActiveX Form
 Controls ()

- 1. View Classes () 
 Form Controls (),

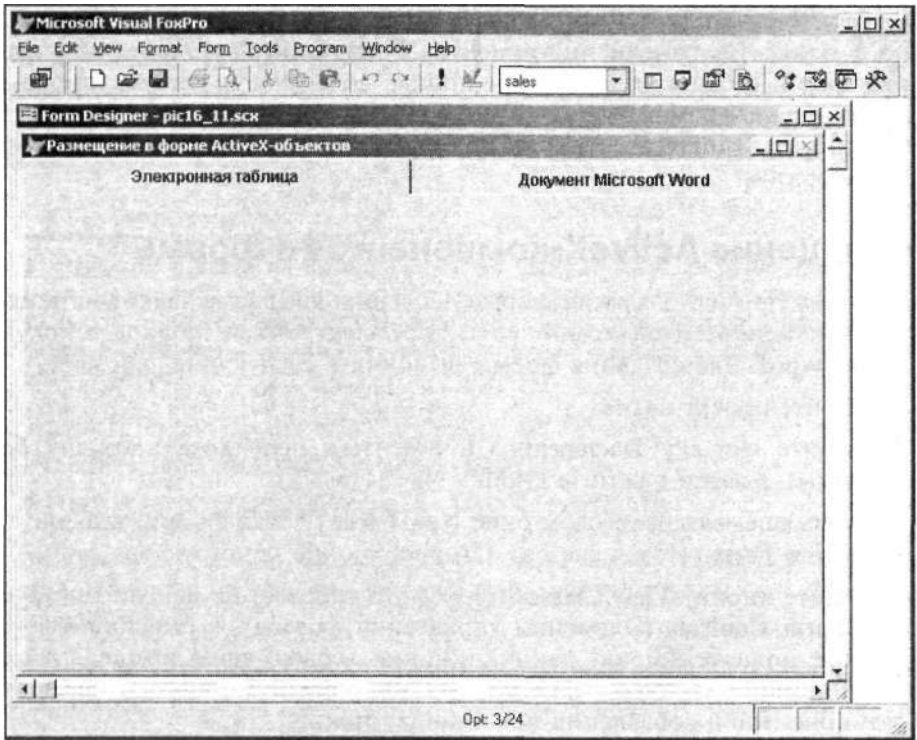


- 2. **ActiveX Controls** (ActiveX) -
Form Controls (-
),
Options () -
(. 16.10). -

ActiveX

Microsoft Word. ActiveX ;
: «

- 1. sales.
- 2. **Documents** (), **Forms**
(), **New** ().
- 3. **New Form** () -
New Form ().
- 4. **View Classes** () -
Form Controls (),
ActiveX
- 5. **Standard** ().
Form Controls () -
- 6. **Page Frame** () page Frame (),
Form Controls ()
).
- 7. caption (-
).
- 8. page Frame () , -
PageCount ().
- 9. caption () ,
(. 16.11).
- 10. ActiveX .
ActiveX : **View Classes** (-
) **Form Controls** (-
).
- 11. **ActiveX Controls** (-
ActiveX).



. 16.11.

Page Frame

(. 16.12),
Form Controls (

Microsoft Excel
).

Excel

- 1.
- 2.
- 3.

Object,

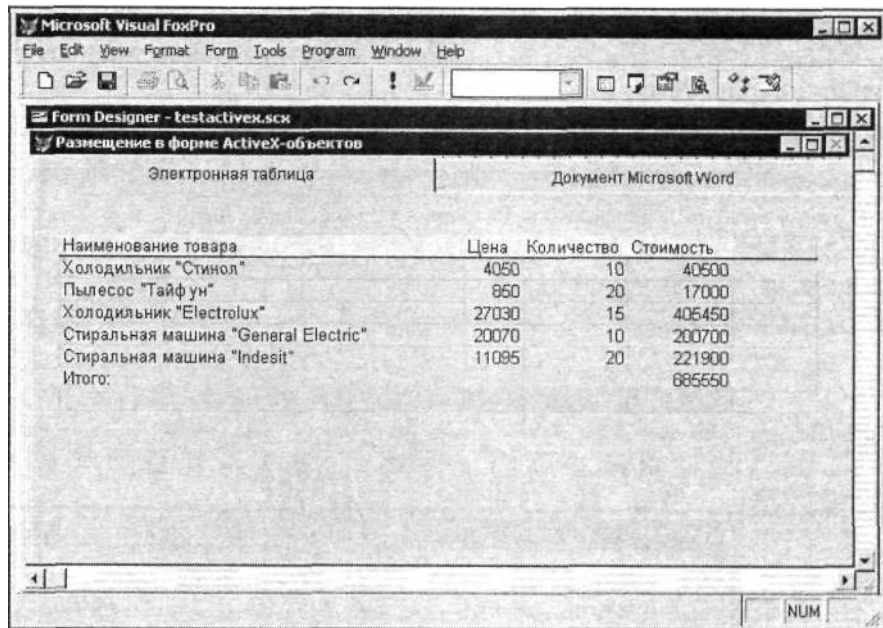
FoxPro

Visual

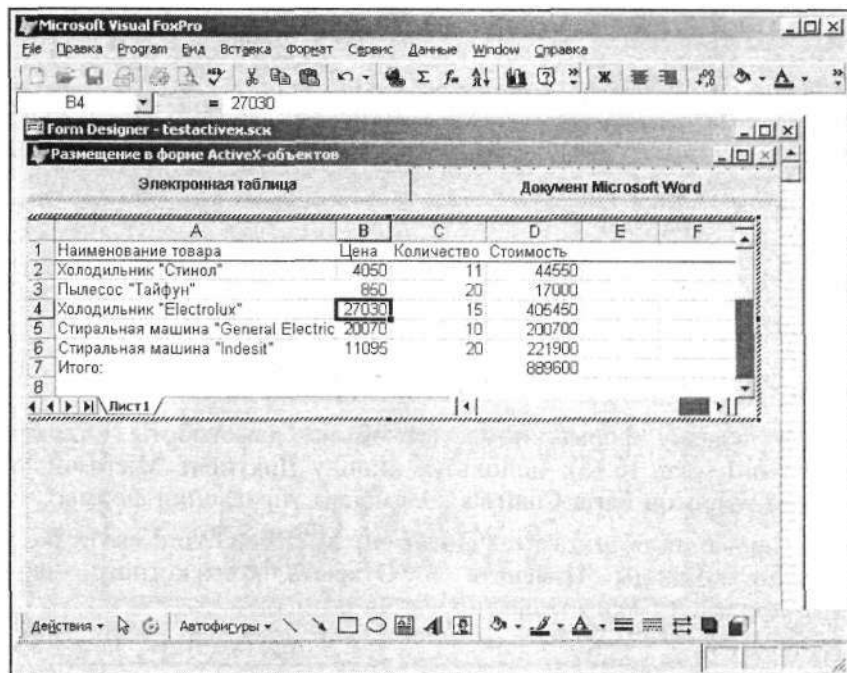
Visual FoxPro
Microsoft Excel.

(. 16.13),





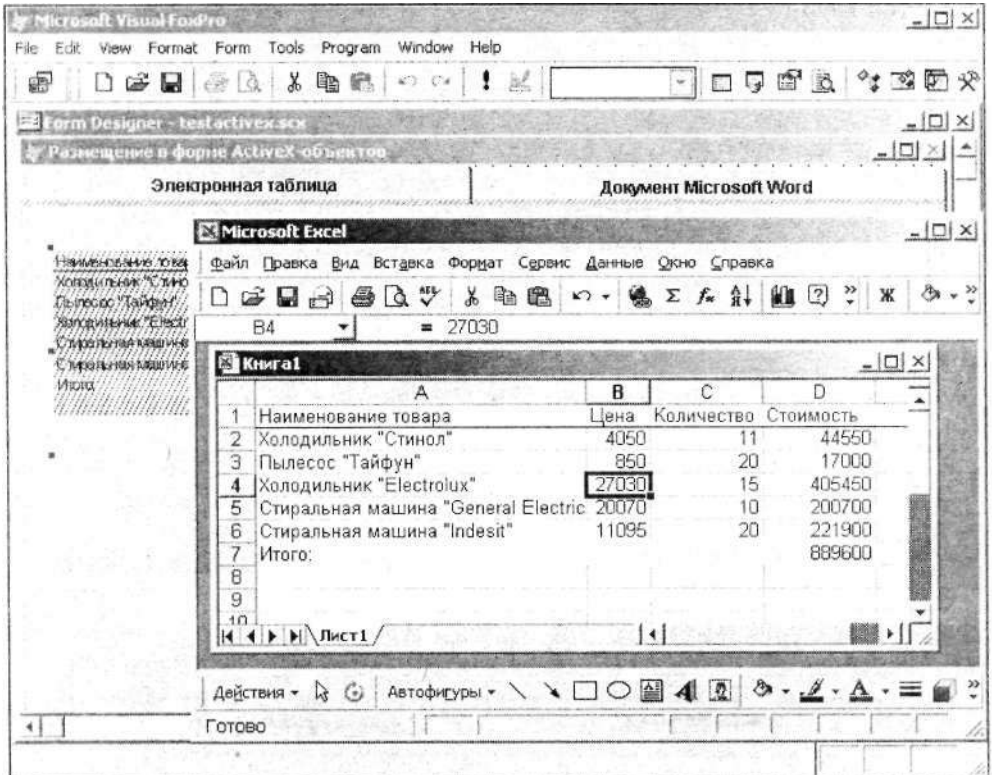
. 16.12.



. 16.13.

Visual FoxPro

Microsoft Excel
(. 16.14).



. 16.14.

Microsoft Word

Microsoft Word (. 16.15),

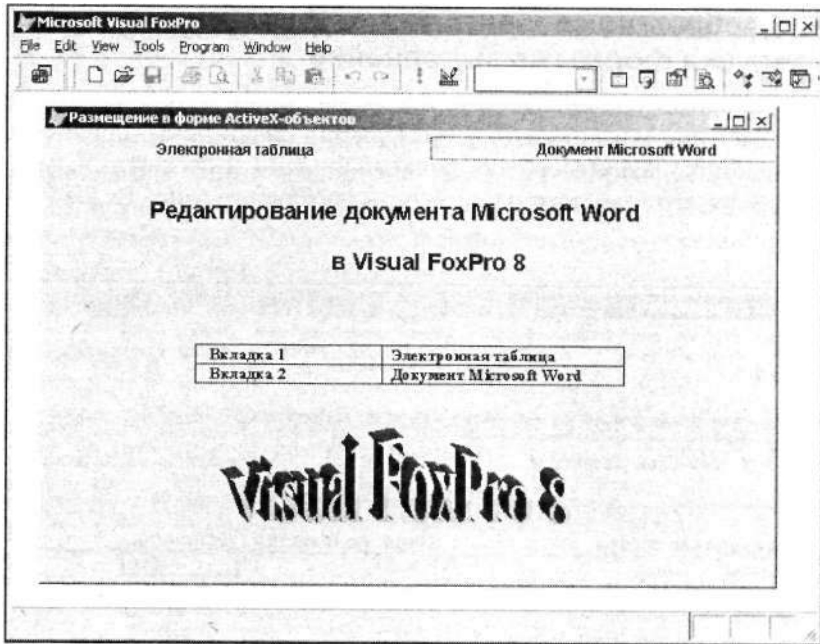
Form Controls (

Microsoft Word

).

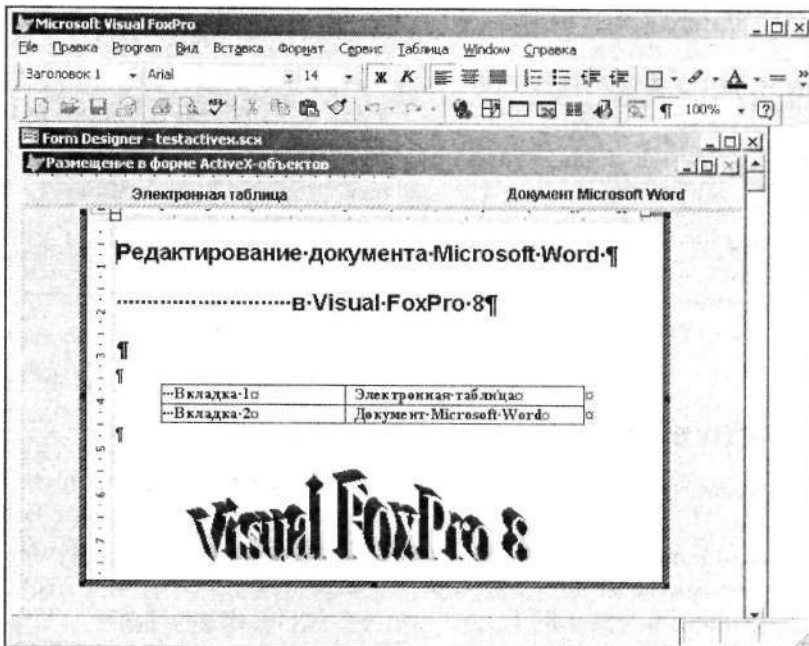
Microsoft Word

. 16.16



. 16.15.

Microsoft Word



. 16.16.

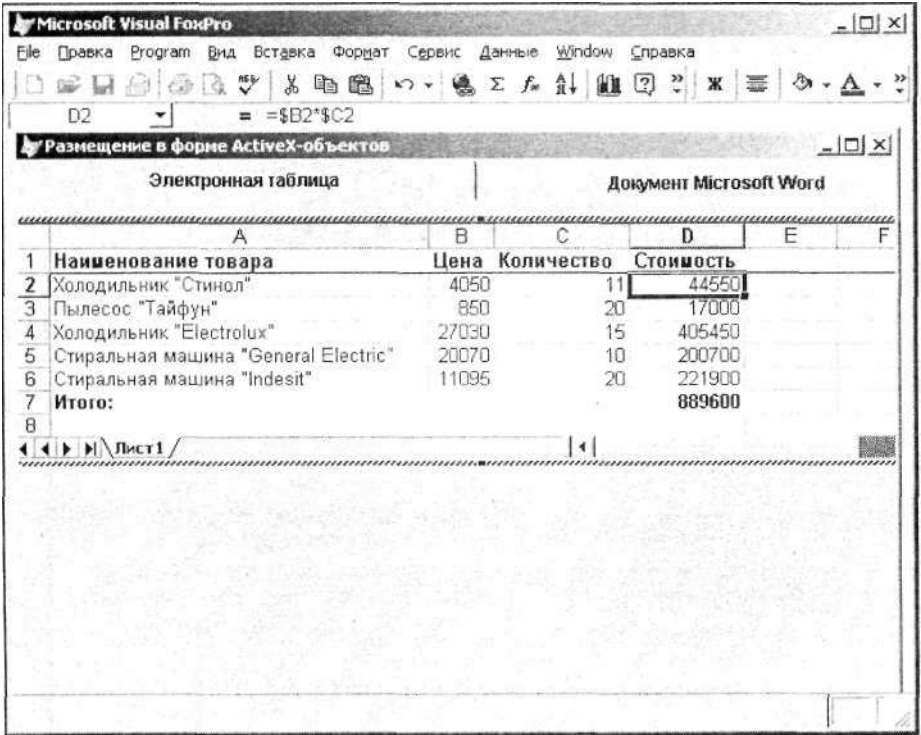
Microsoft Word

ActiveX

ActiveX

ActiveX

(. 16.17).



. 16.17.

ActiveX

ActiveX

ActiveX

ActiveX

RTF

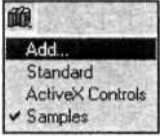
Memo

RTF

customer,

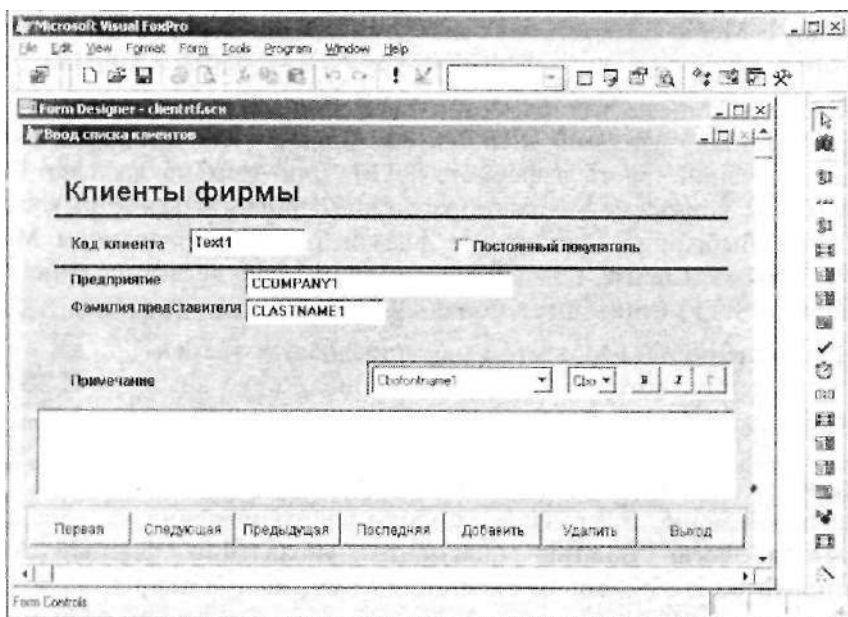
Memo mNotes

:

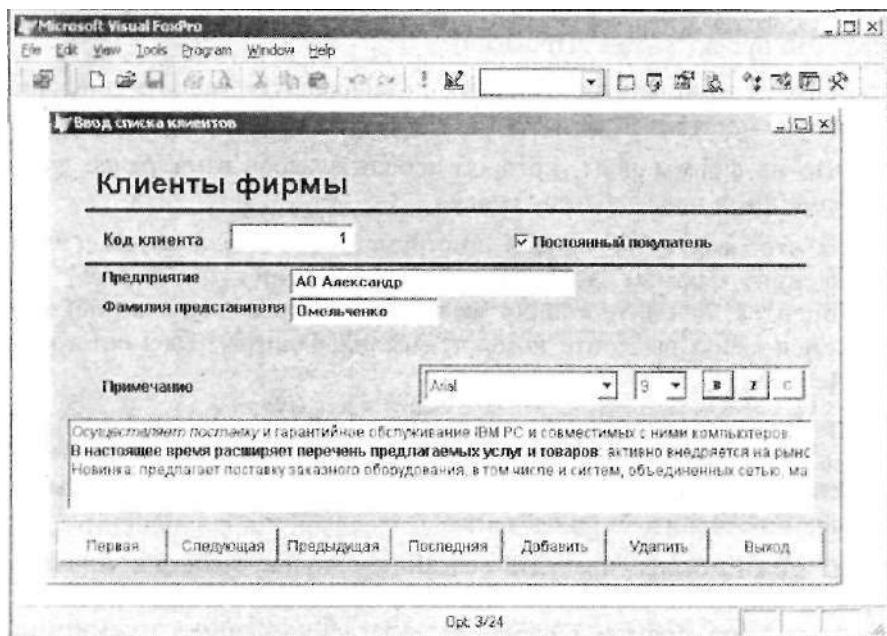
1. **Form Controls** (**Microsoft Rich TextBox Control** (RTF). **Options** (**Selected** (**Rich TextBox Control** (RTF) **Controls** **Microsoft**
2. RTF -  Visual FoxPro. **View Classes** (**Form Controls** (**Samples** () **ActiveX**

Замечание

3. Sales ().
4. Customer.
5. mNotes.
6. **Form Controls** (**View Classes** (**ActiveX Controls** (**ActiveX** (ActiveX).
7. **Form Controls** (**Microsoft Rich TextBox Control** (RTF) , -
8. RTF - **Form Controls** () - **View Classes** () - **Samples** ().



. 16.18.


ActiveX
Samples

. 16.19.

ActiveX
Memo

- 9. **Form Controls** (RTF) . 16.18.
- 10. **rtfcontrols** () ,
- 11. **Properties** () **ControlSource** (customer mNotes. RTF , -
- 12. RTF . 16.19.

ActiveX

Form Controls (), **ActiveX**  -

(. 16.20).

(. 16.21).

(General), (Font), (Color). :

. 16.2.

16.2.

(Value)

(First Day)

16.2 ()

(Day Length) ;

(Month Length) ; -

(Grid Cell Effect)

(Show) (General) ,
. 16.3.

16.3.

(Month/Year Title) -

(Month/Year Selectors) -

(Days of Week) -

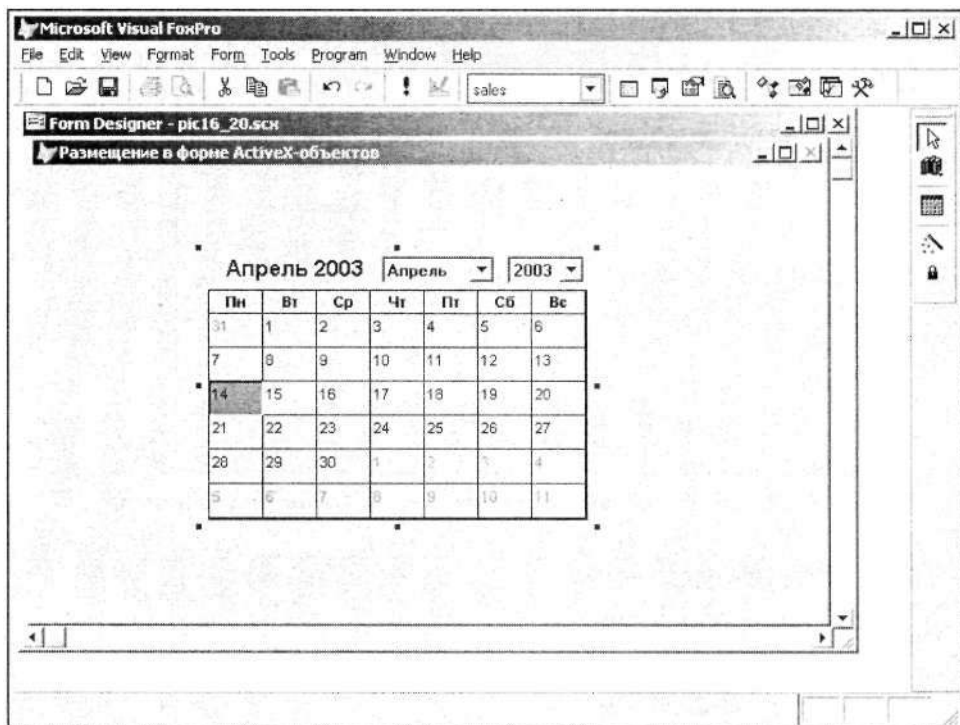
(Horizontal Grid) -

(Vertical Grid) -

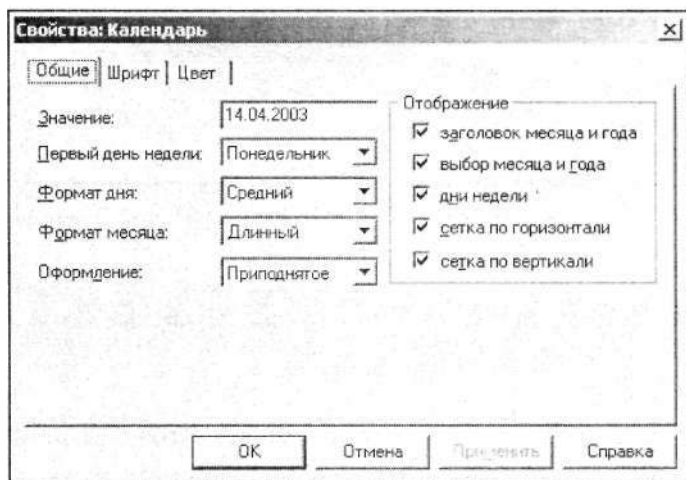
(Font) (. 16.22) (Properties)

- DayFont ;
- GridFont — ;
- TitleFont —

(Font) (Size) (Properties) ,
(Effects) — .

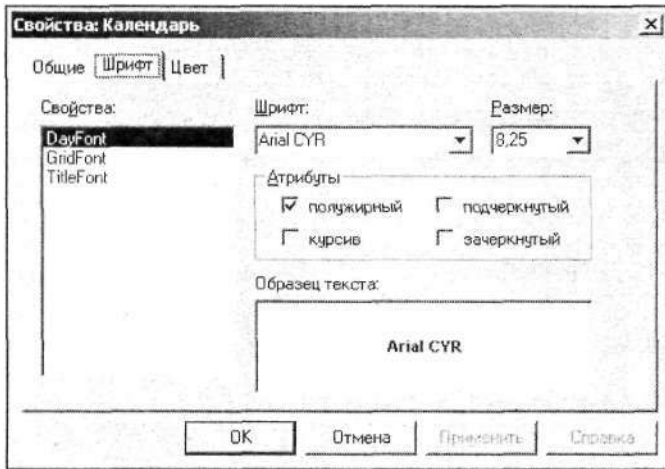


. 16.20.

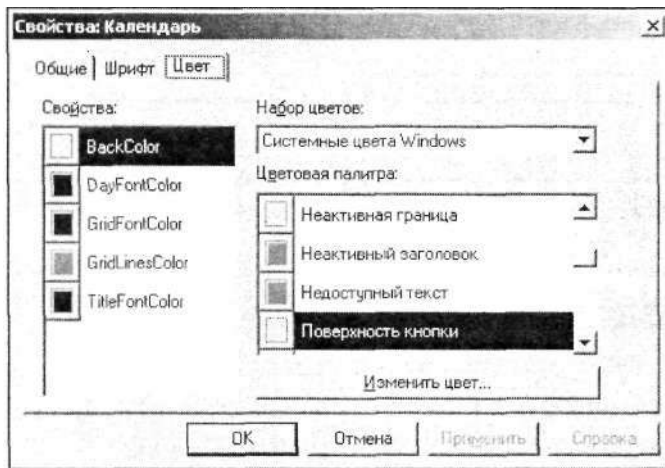


. 16.21.

:



. 16.22. :



. 16.23. :

(Color)

(. 16.23)

(Properties)

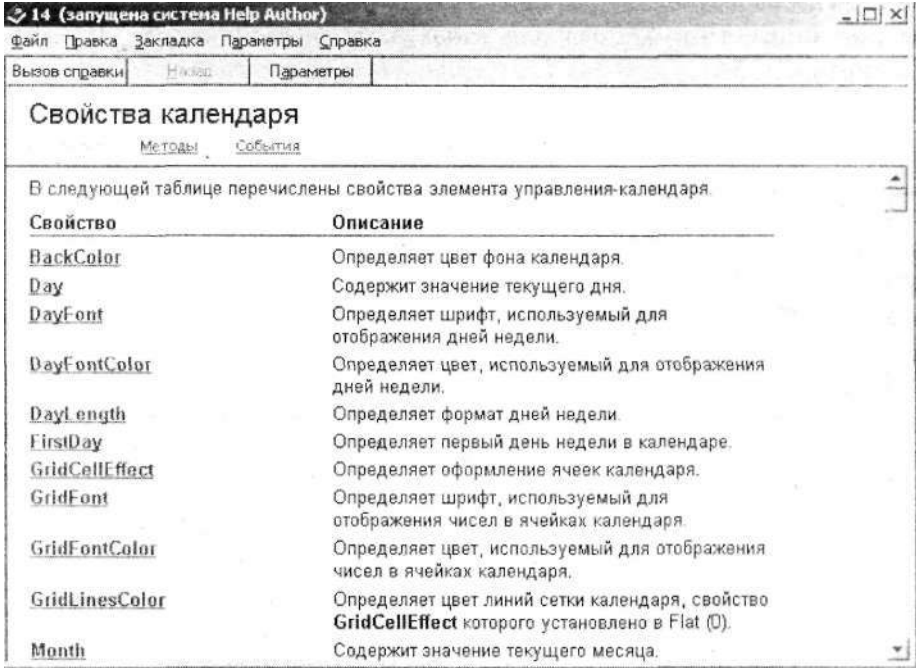
- Backcolor — ;
- DayFontcolor — , ;
- GridFontcolor — , ;
- GridLinesCoior — ;
- TitieFontcolor — .

(Color Set)

(Color Palette) —

ActiveX

(, 16.24).



. 16.24.

ActiveX

ActiveX

Manager

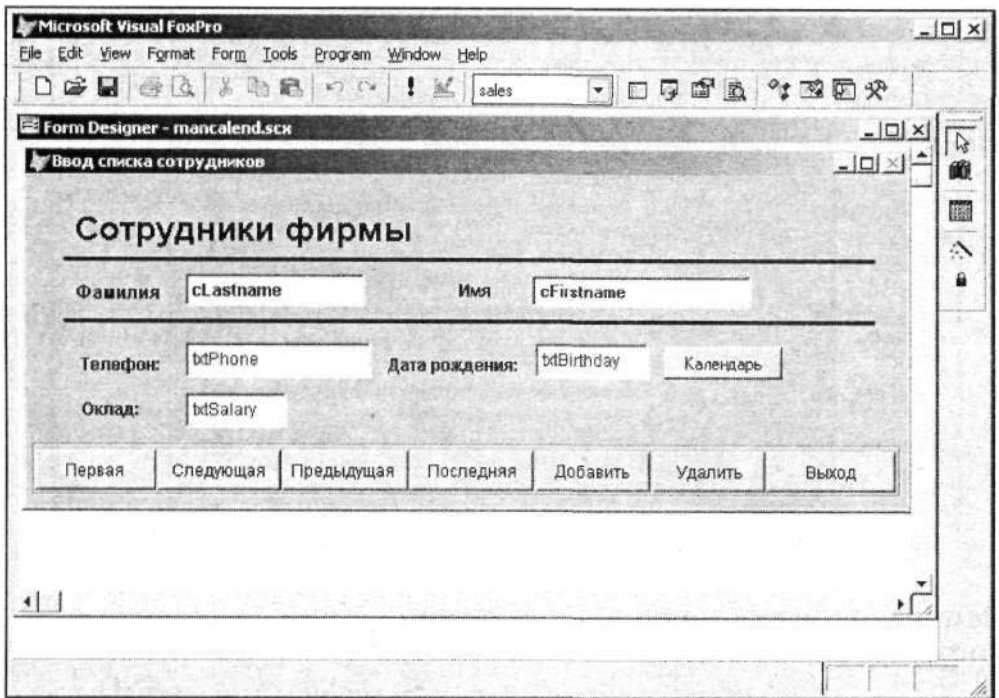
dDateBirth

ActiveX

1. Sales

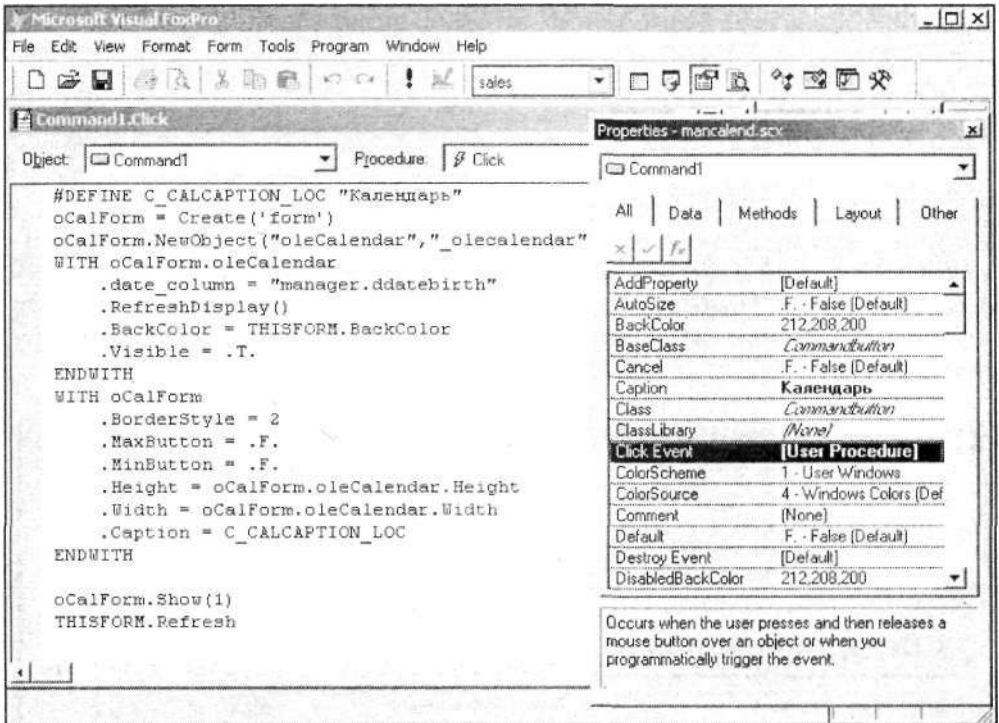
2.

3. -
4. **Properties** () ,
5. Name (),
txtBirthday.
6. ControiSource () , -
dDateBirth



. 16.25.

7. , ,
8. Caption () ,
 , . 16.25.
9. **Properties** () .



. 16.26.

Click

10.

click ()

ActiveX

(. 16.26):

```

#DEFINE C_CALCAPTION_LOC " "
oCalForm = Create('form')
oCalForm.NewObject("oleCalendar", "_olecalendar", "_datetime")
WITH oCalForm.oleCalendar
    .date_column = "manager.ddatebirth"
    .RefreshDisplay()
    .BackColor = THISFORM.BackColor
    .Visible = .T.
ENDWITH
WITH oCalForm
    .Borderstyle = 2
    .MaxButton = .F.
    .MinButton = .F.
    .Height = oCalForm.oleCalendar.Height
  
```

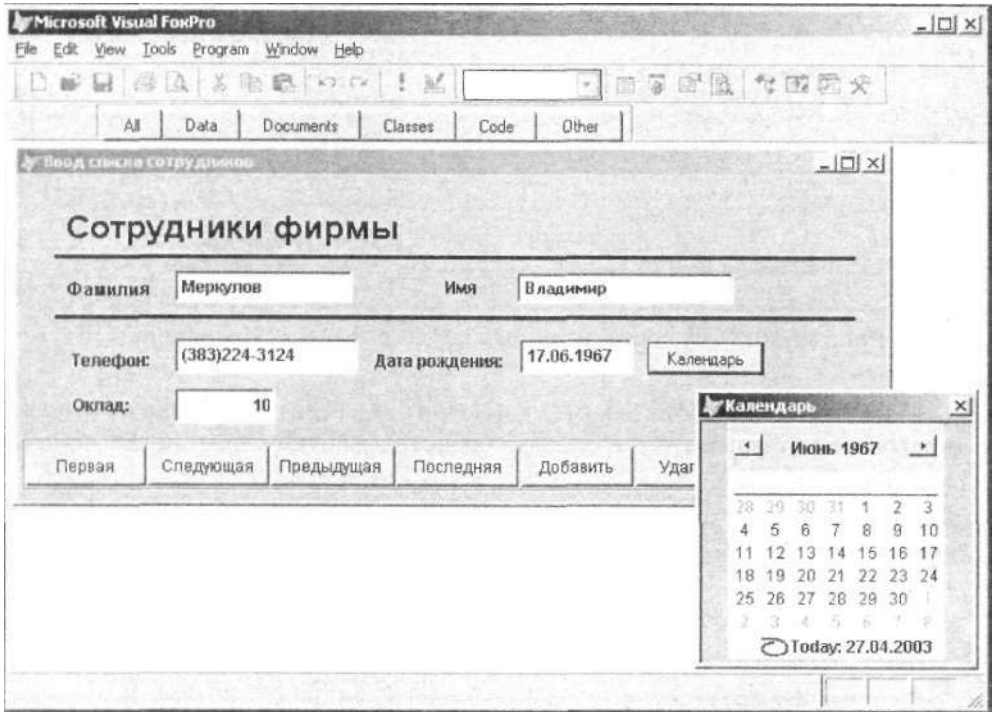
```

.Width = oCalForm.oleCalendar.Width
.Caption = C_CALCAPTION_LOC
ENDWITH
oCalForm.Show(1)
THISFORM.Refresh

```

11.

(. 16.27).



. 16.27.

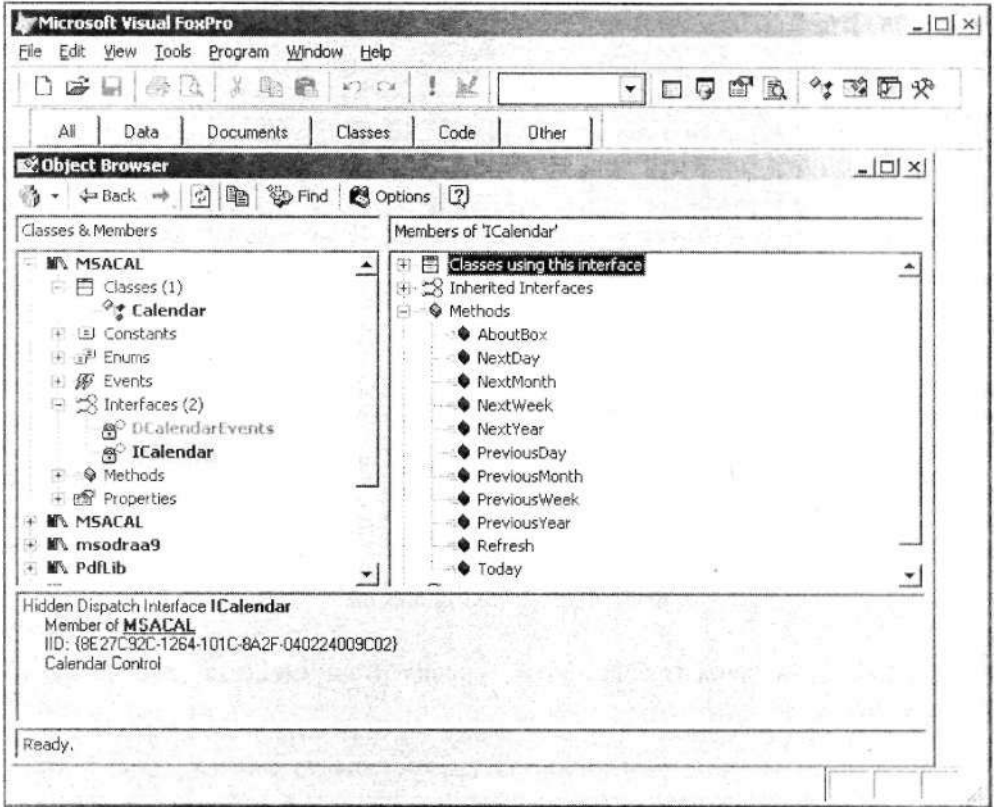
ActiveX

Visual FoxPro



ActiveX

— Object Browser ().

(. 16.28)

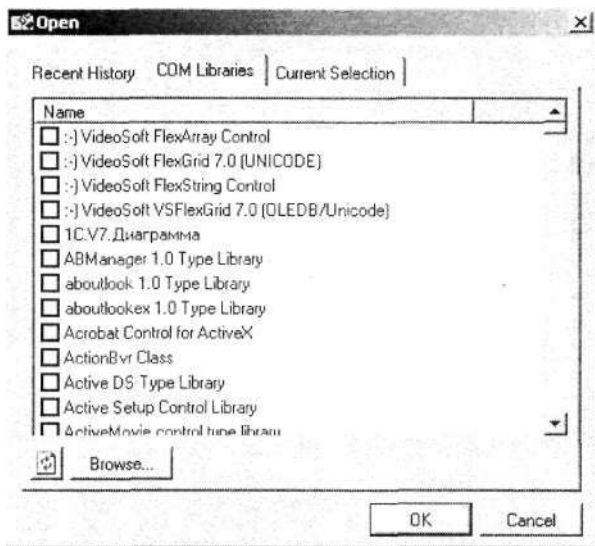


. 16.28.

- Object Browser () Tools ();
- Object Browser  .
- Open Type Library ()  . Open () (. 16.29), :
- Recent History () — ;
- COM Libraries () — ;

- Current Selection () —
- () .

Object Browser



16.29. COM Libraries Open,

Object Browser

16.4.

16.4.

Object Browser



Object Browser



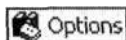
Browser

Object



(16.30),

Object Browser



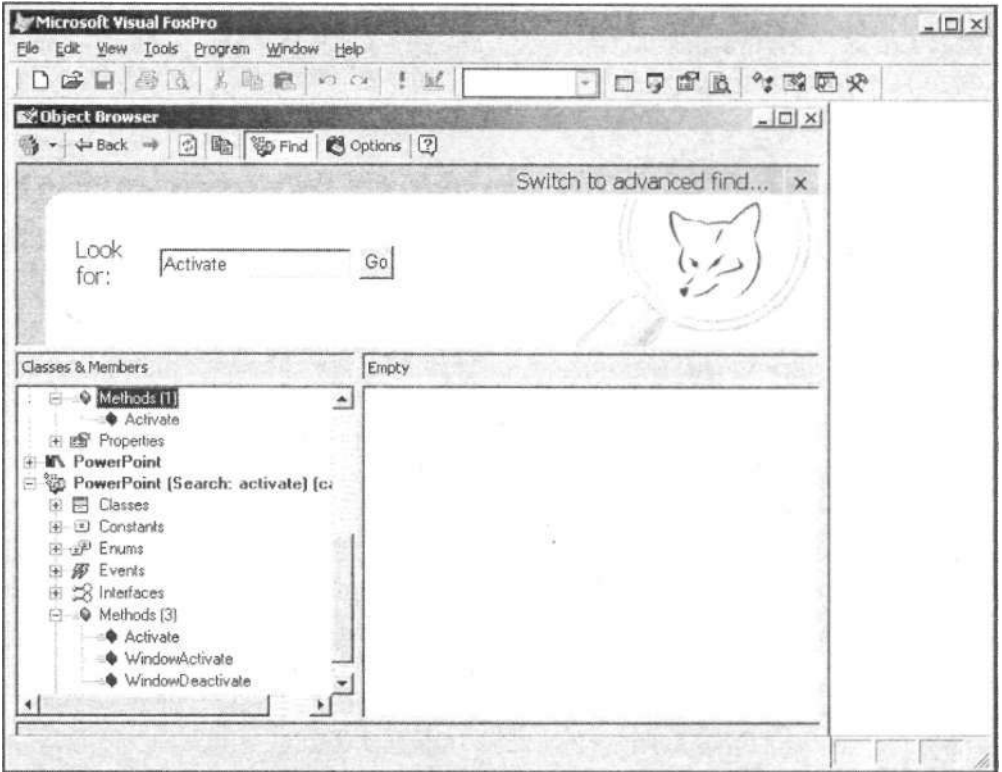
Object Browser Options (

),

Object Browser

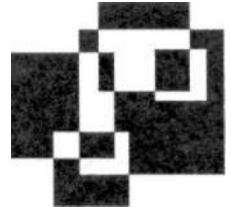
Object Browser

Find () Object Browser
 () Look for () -
 Go (),
 Look for Go.
 (. 16.30).



. 16.30.

Object Browser



14

- 1. sales.
- 2.
- 3. **Data Environment** (),
Environment () **View** () **Data**
Environment ()
- 4. **Add** () **Data Environment** ().
- 5. **Add Table or View** ()
Views ()
Sumcust.
- 6. **Data Environment** ().

7. Quick Report (-
) Report ().

8. Page Header (-
)

9. Data Grouping () Report ().

10. Group Footer () ,

11. Title/Summary (/) Report
 ().

12. . 17.1
 SumCust.

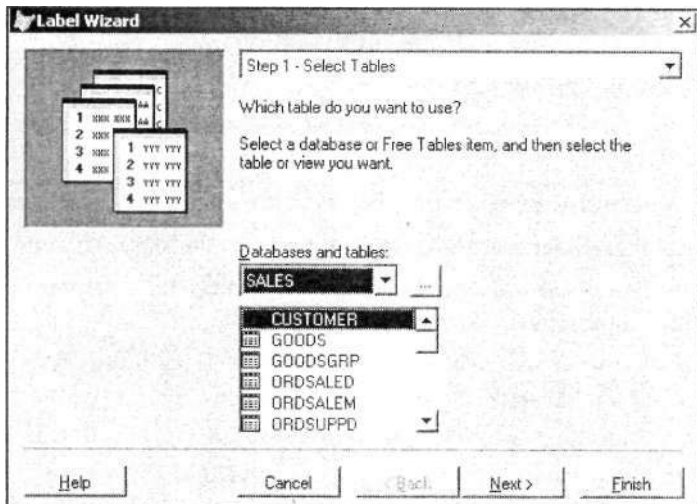
Наименование товара		Стоимость
Предприятие BelWest	Фамилия представителя Соколов	
	Холодильник "Атлант НХМ"	1,878.00
	Холодильник "Смоленск"	5,299.00
	Итого по клиенту:	7177.00
Предприятие АО Айрис	Фамилия представителя Смирнова	
	Видеомагнитофон Toshiba	255.00
	Газовая плита "Indesit"	8,704.00
	Микроволновая печь Bosch	586.00
	Музыкальный центр Panasonic	1,314.00
	Стиральная машина	778.00
	Телевизор Panasonic 21GF10R	1,238.00
	Телевизор Toshiba 2140XS	369.00
	Холодильник "Indesit"	2,140.00
	Холодильник "Атлант НХМ"	1,030.00
	Холодильник "Смоленск"	46,090.00
	Холодильник "Стинол 102L"	2,460.00
	Холодильник "Стинол 116L"	3,158.00

Visual FoxPro

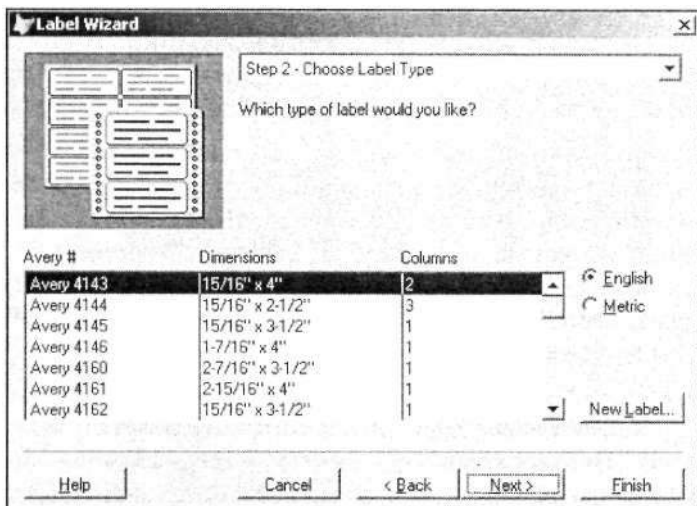
- 1.
 2. **Documents** ().
 3. **Labels** () New
()
 4. **New Label** ().
Label Wizard ().
- COBET**
5. **Tools** (-
-)
Label () **Wizards** (),
Label ().
 6. (. 17.2), . . .
Next ().
 6. (. 17.3). **Avery** -
Dimensions () -
Columns () —
Metric (-
-) —
- New Label** ().
- Custom Labels** () (. 17.4)

New () Edit ()
 New Label Definition ()
) (. 17.5),
 Label Name ()
 Add () Update

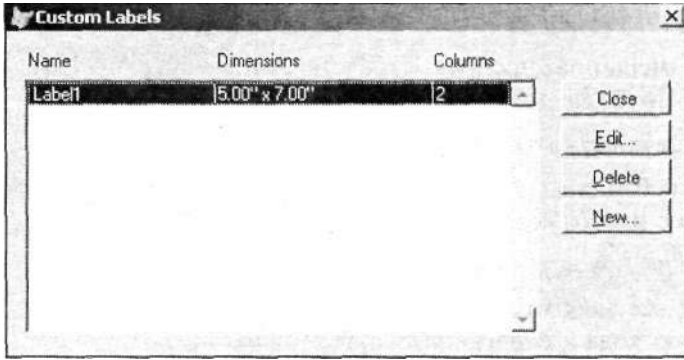
()



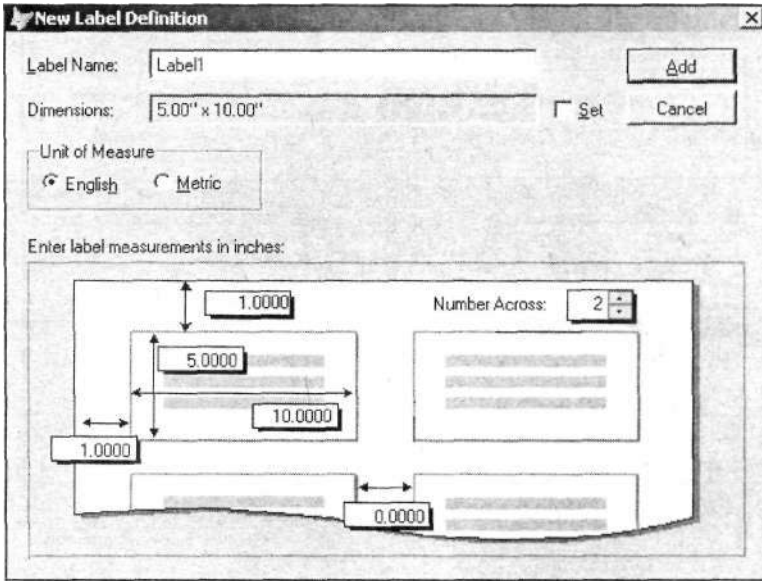
. 17.2.



. 17.3.



. 17.4. Custom Labels



. 17.5. New Label Definition

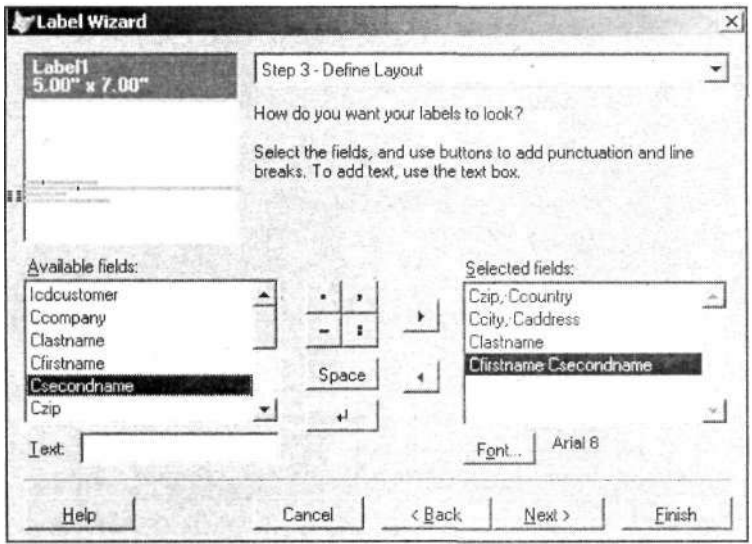
7.

(, , , , ,) ,

• Available Fields ()
 Selected Fields () ,

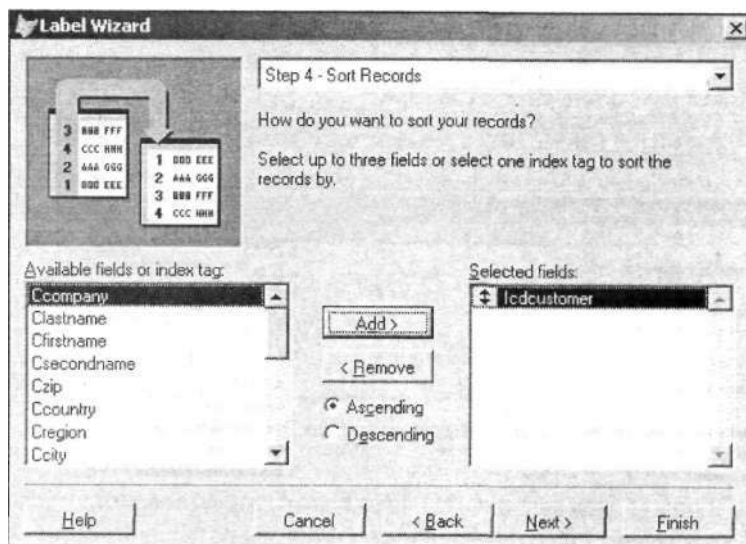
;

- -
 - Space ();
 -
 -
 -
 -
- (. 17.6), Next ()

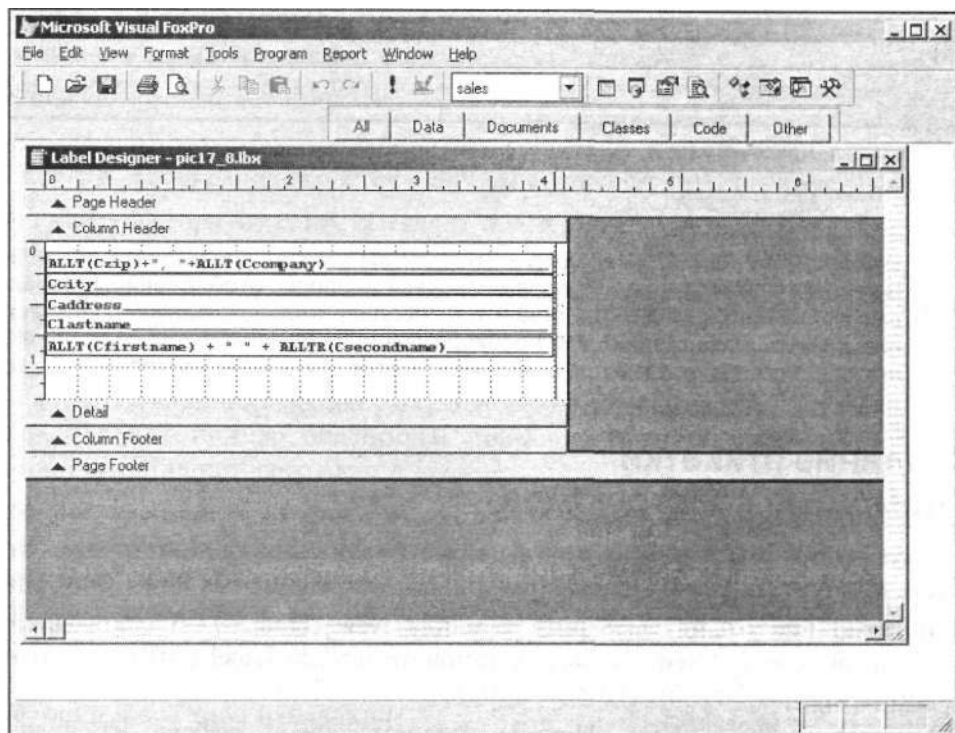


. 17.6.

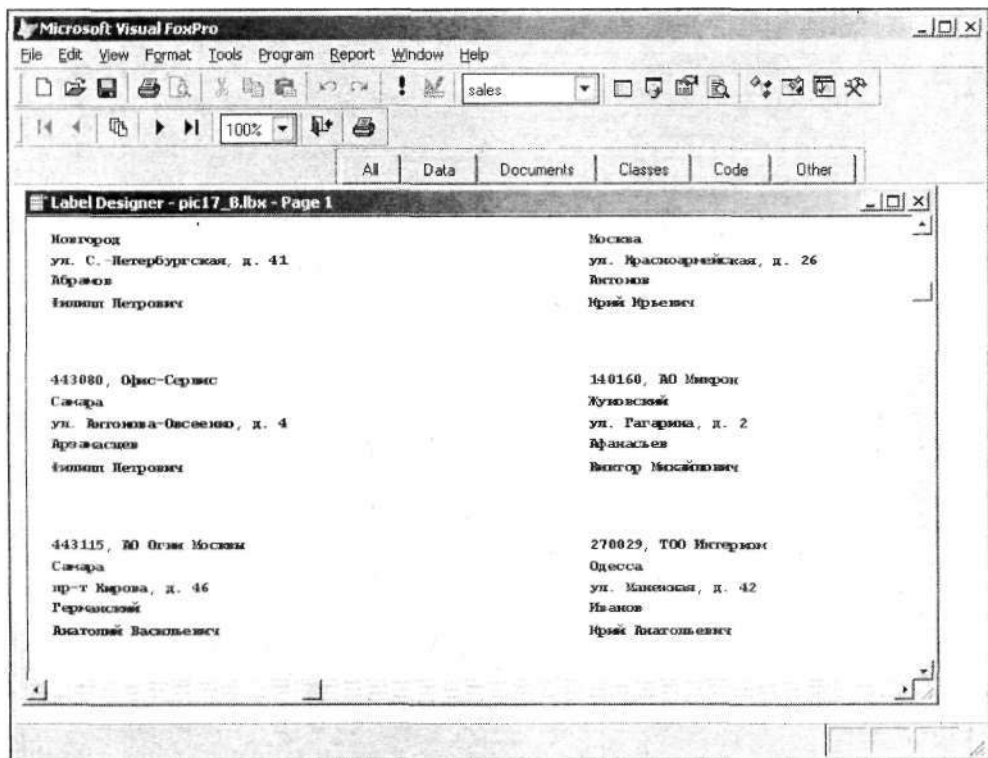
8. (. 17.7). -
 Available fields or index tag ()
 Selected fields () ,
 Next ().
9. (,) .
 (. 17.8). . 17.9



. 17.7.



. 17.8.

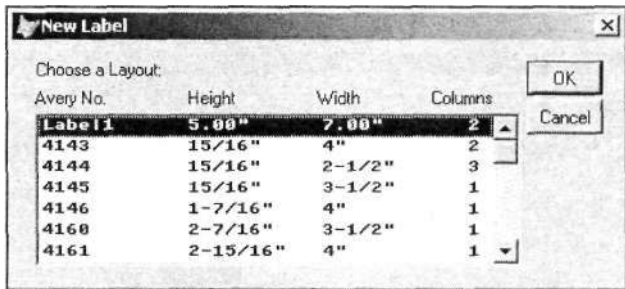


. 17.9.

Совет

- File () New ().
- New () Label ()
- New file ().
- New (),
- Documents () Labels (),

New Label ().



. 17.10. New Label

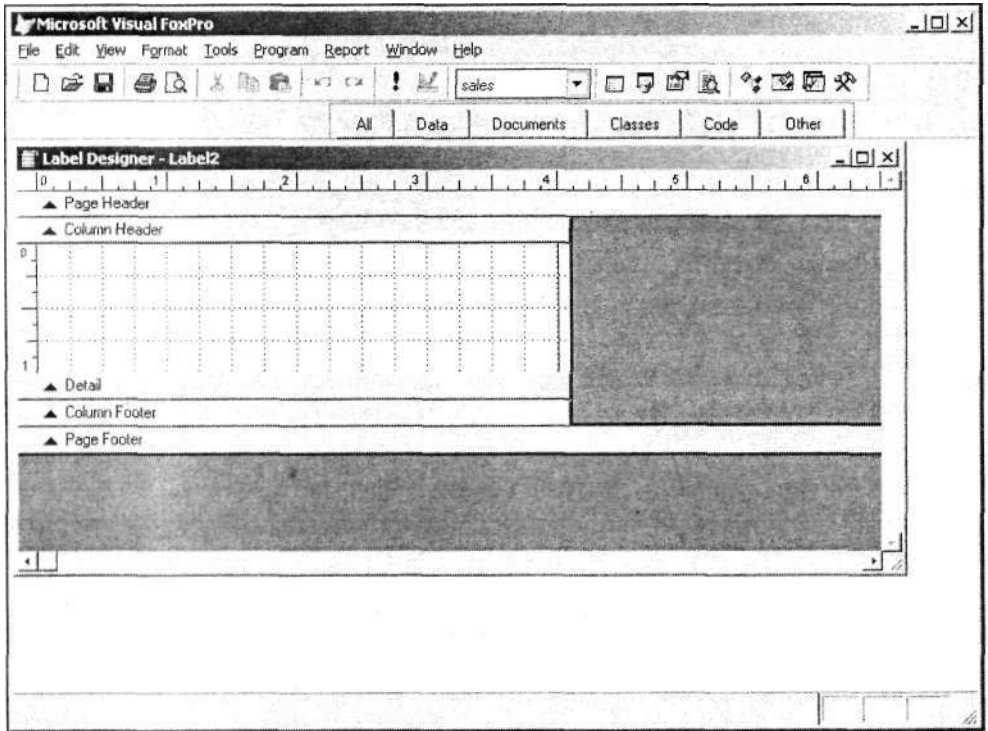
New Label () (. 17.10),

- **Avery No** — ;
- **Height** — ;
- **Width** — ;
- **Columns** — .

(. 17.11).

Customer.

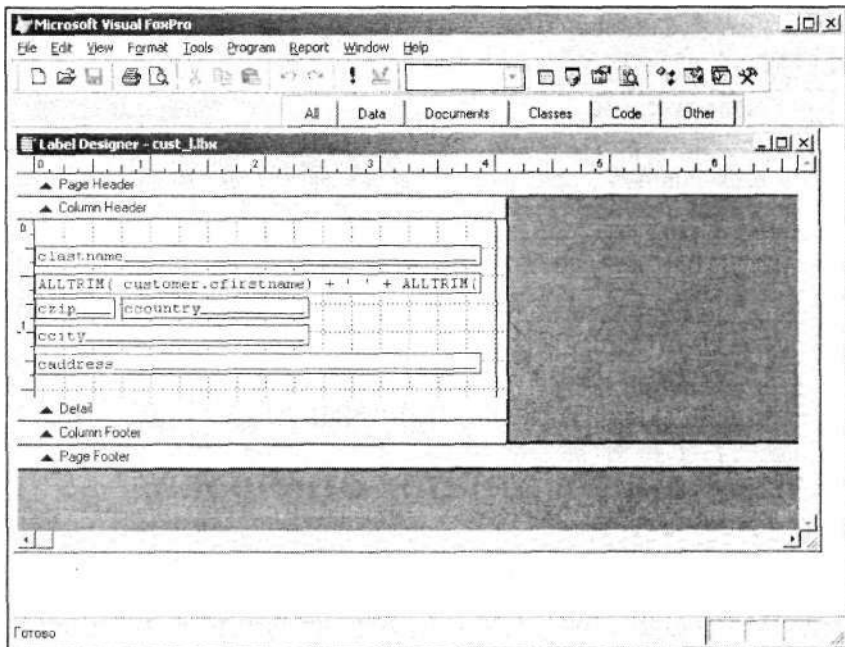
8.



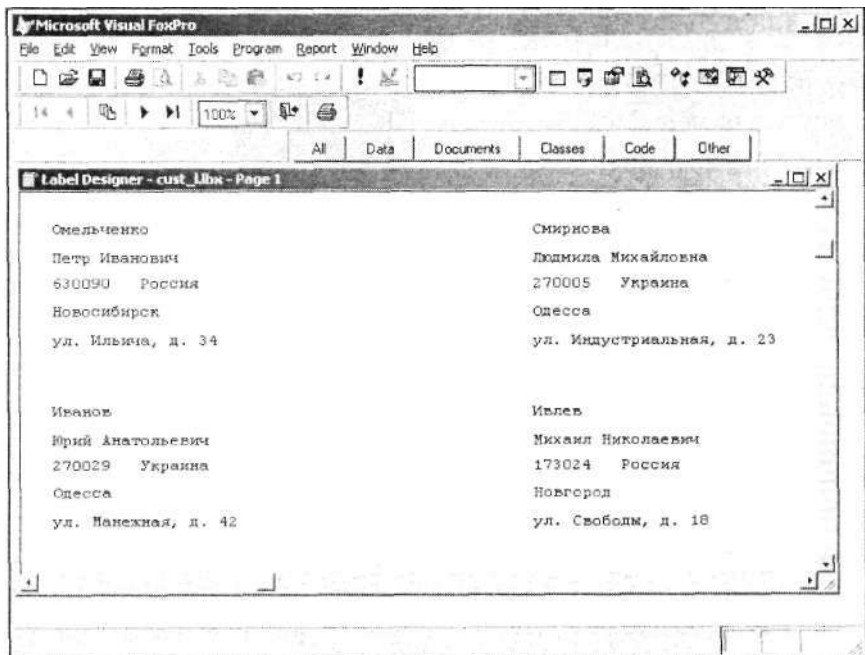
. 17.11.

- 1. File () New ().
New () Label () -
New file ().
- 2. New Label (),
-
-
.
- 3. Data Environment ()
Customer.
- 4. Quick Report ()
Report (),
-
-
.
- 5. ,
-
-
.
.
.

. 17.12.



. 17.12.



. 17.13.

6. . 17.13. -

Замечание

Page Setup () File ()
Page Setup ()

7. **File** ()
Save as ()

8. **Print** () **File** ()

" "

Visual FoxPro " "

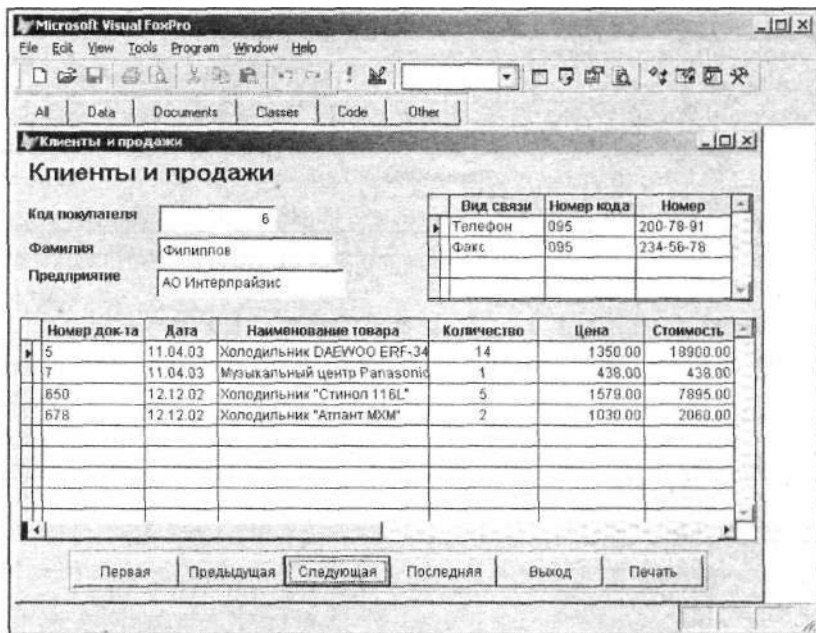
15, (. 17.14) -

1. Sales.
2.
3.
4. click ()
:

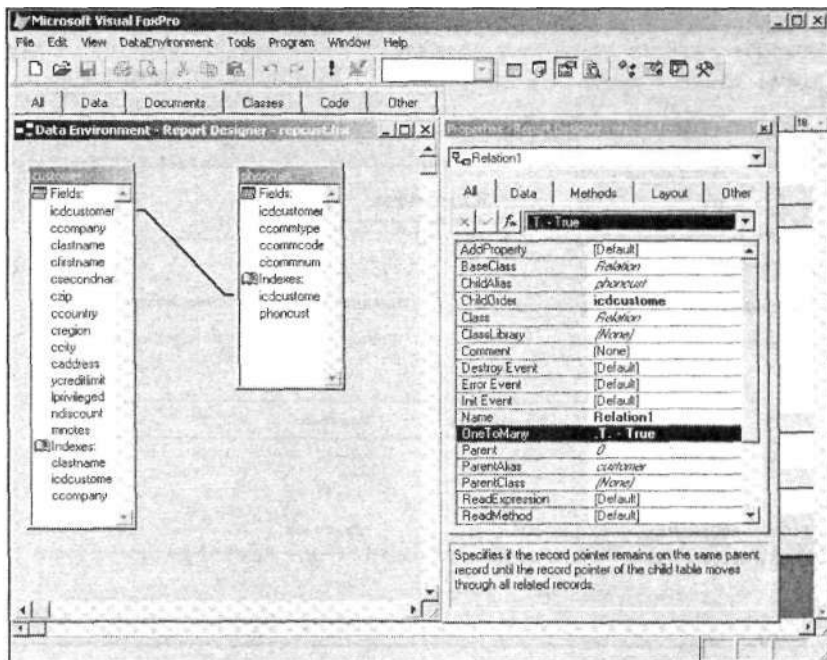
```
curiCdCustomer=icdCustomer
REPORT FORM RepCust TO PRINTER;
FOR PhonCust.icdCustomer=curiCdCustomer
SELECT PhonCust
SET SKIP TO
select Customer
ThisForm.Refresh()
```

5. **Environment** () Customer PhonCust. **Data**

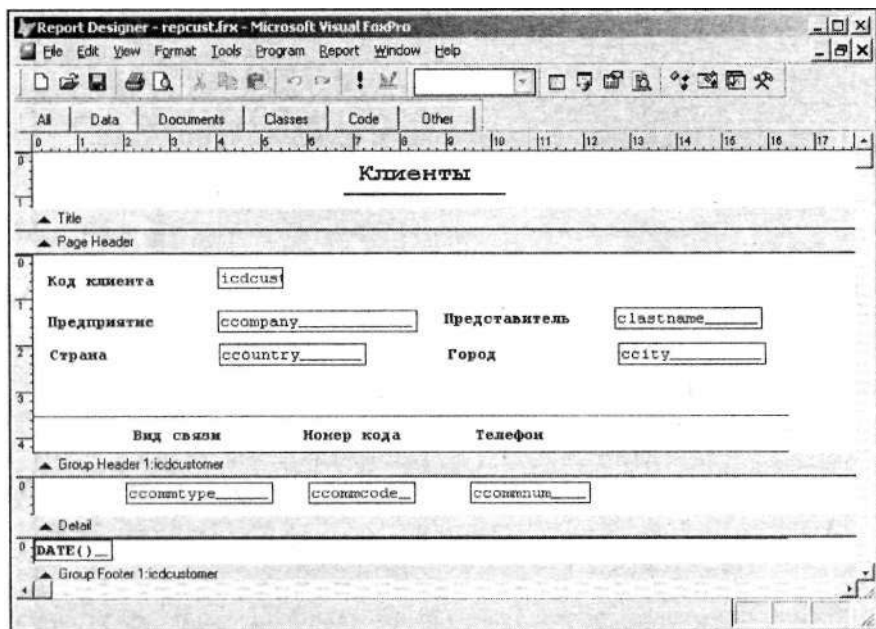
6. — PhonCust. Customer,
On T M n (),
True () (. 17.15).



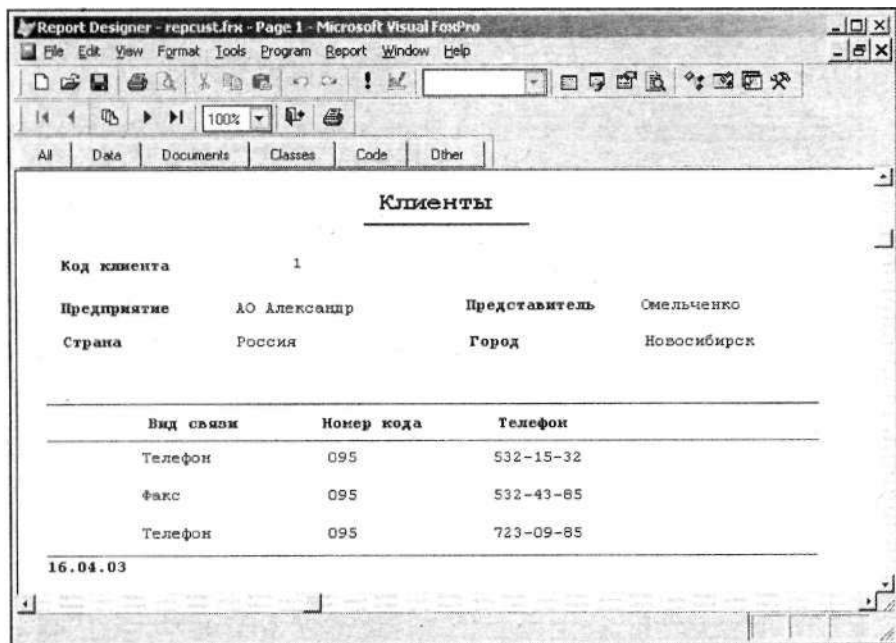
. 17.14.



. 17.15.

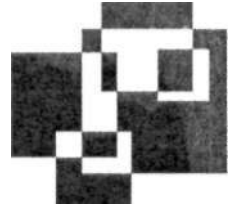


. 17.16.



. 17.17.

7.		.		
8.		.		
9.	Group Header ()			
	Customer	,		
	Phoncust.			
10.	Detail ()		Phoncust.	
11.		. 17.16.		-
	RepCust.			
12.		.	.	-
	.	.	17.17	.




9

Visual FoxPro

Browse (),

Destination () (. 18.1).

Query

• Query Destination ()  -
Query Designer ().

• Query () Query Destination ().

Query Destination () ,
. 18.1.

18.1.

QueryDestination

Browse ()

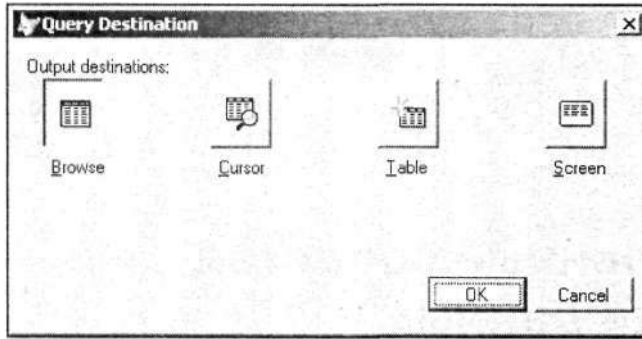
Browse

()

Cursor ()

Table ()

Screen ()



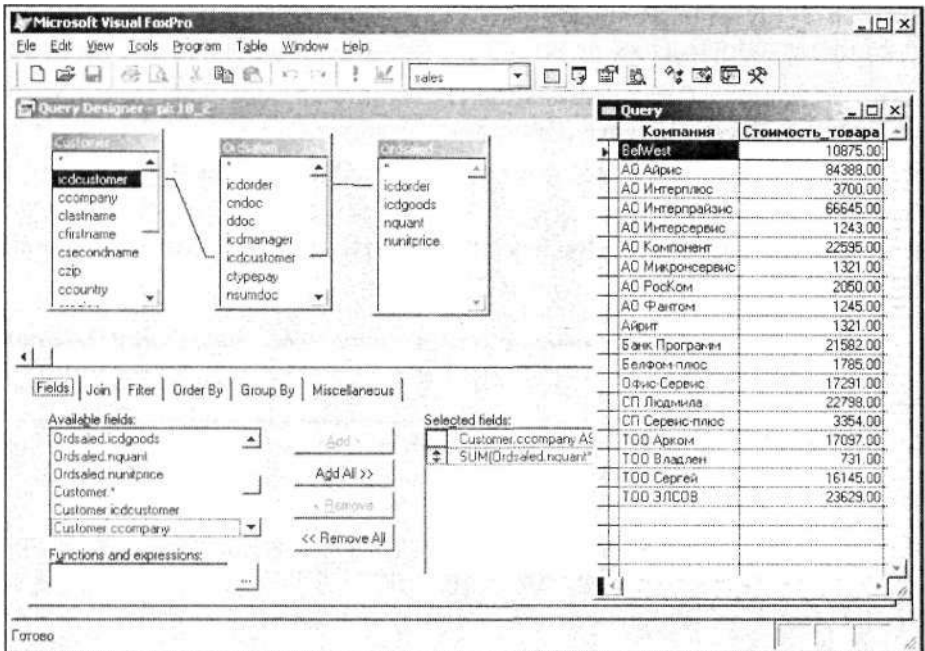
. 18.1.

Query Destination

Browse

Visual FoxPro

Browse () (. 18.2).



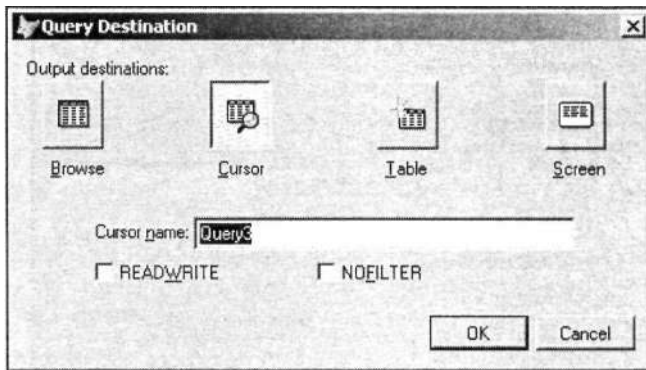
. 18.2.

Browse

Destination (. 18.3), Cursor name () Cursor (Query)

- READWRITE —

- NOFILTER —



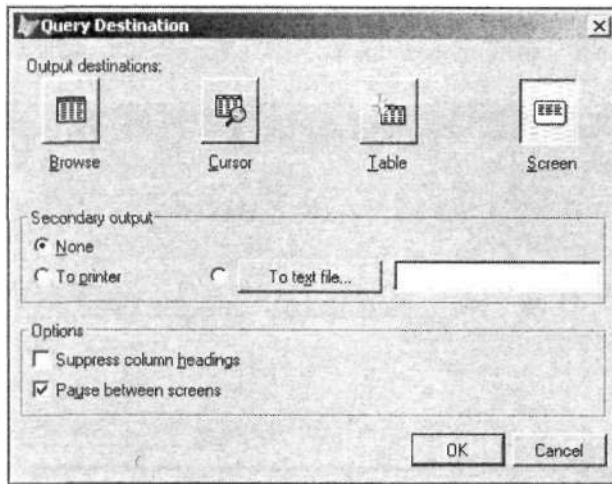
. 18.3.

Query Destination

Cursor

() Query Destination (Table
 Table name (),
 , ,
 Open ().

. 18.4 Query Destination (Screen ().



. 18.4. Query Destination Screen

- Secondary output ()
- None () — ;
 - printer () — ;
 - text file () — ;

Options ()

Suppress column headings (He

)

Pause between screens ()

Замечание

HTML

Visual FoxPro

Save As HTML (HTML. HTML) File (),
(. 18.5),
. 18.2.

18.2.

Save As HTML

Save file for later use ()

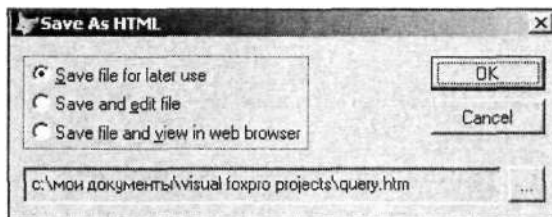
HTML

Save and edit file ()

HTML
(. 18.6)

Save file and view in web browser

(Web)

HTML
Web (. 18.7)

. 18.5.

Save As HTML

```
query.htm
<html>
<head>
<title>
</title>
</head>
<body bgcolor="silver">
<table id="GenTable" border=1>
<tr>
<th>Компания</th>
<th>Стоимость_товара</th>
</tr>
<tr>
<td>BelWest</td>
<td>10875</td>
</tr>
<tr>
<td>АО&nbsp;Айрис</td>
<td>84388</td>
</tr>
<tr>
<td>АО&nbsp;Интерплюс</td>
<td>3700</td>
</tr>
</table>
```

. 18.6.

HTML

С:\Мои документы\Visual FoxPro Projects\query.htm - Microsoft Internet Explorer предоставил: АБВУ ЭЖЗЙ

Файл Правка Вид Избранное Сервис Справка

Назад Вперед Остановить Обновить Домой Поиск Избранное Медиа Журнал

Адрес C:\Мои документы\Visual FoxPro Projects\query.htm Переход Ссылки

Компания	Стоимость_товара
BelWest	10875
АО Айрис	84388
АО Интерплюс	3700
АО Интерпрайзис	66645
АО Интерсервис	1243
АО Компонент	22595
АО Миронсервис	1321
АО РосКом	2050
АО Фантом	1245
Айрит	1321
Банк Программ	21582
Белфом-плюс	1785
Офис-Сервис	17291
СП Людмила	22798

Готово Мой компьютер

. 18.7.

HTML

Web

Save As HTML (-

HTML),

Save As (), -

Select

SELECT.

- 1. () New (). **File**
- 2. New file (). **Program ()**
- 3. OrdSalem OrdSaled ,
- 4. Show the SQL Window (SQL) **Query**
Query Designer ()
() View SQL (SQL).
- 5. SELECT
Windows.
- 6. Windows -

7. SELECT , -
, , -
:
dBeg=CTOD("01.04.03") &&
dEnd=CTOD("30.04.03") &&
cOutput="Ords" &&
8. SELECT , -
dBeg dEnd:
SELECT Ordsalem.icdorder AS , ;
SUM(Ordsaled.nQuant*Ordsaled.nUnitPrice) AS ;
FROM sales!ordsalem INNER JOIN sales!ordsaled ;
ON Ordsalem.icdorder = Ordsaled.icdorder;
WHERE Ordsalem.dDoc BETWEEN dBeg AND dEnd;
GROUP BY Ordsalem.icdorder;
INTO TABLE &cOutput
9. Ords.prg

The screenshot shows the Microsoft Visual FoxPro interface. The Command Window displays the following SQL query:

```

dBeg=CTOD("01.04.03")    ** начальная дата
dEnd=CTOD("30.04.03")   ** конечная дата
cOutput="Ords"
SELECT Ordsalem.icdorder AS заказ,
      SUM(Ordsaled.nQuant*Ordsaled.nUnitPrice) AS стоимость;
FROM sales!ordsalem INNER JOIN sales!ordsaled ;
ON Ordsalem.icdorder = Ordsaled.icdorder;
WHERE Ordsalem.dDoc BETWEEN dBeg AND dEnd;
GROUP BY Ordsalem.icdorder ;
INTO TABLE &cOutput

```

The Results Window shows a table named 'Ords' with the following data:

Заказ	Стоимость
1	11256.00
2	13125.00
3	22798.00
4	25376.00
5	16686.00
6	1949.00
7	1024.00
8	17097.00
9	3354.00
10	18073.00
11	22595.00
12	624.00
13	1321.00
15	2050.00

10. , (18.8). Ords -
 , . -
 , -
 10%.

```
SELECT icdGoods
FROM Goods
WHERE nUnltPrice >
(SELECT 0.9 * MAX (nUnitPrice) ;
FROM Goods)
```

HAVING

WHERE HAVING, GROUP BY, -
 WHERE .

Замечание

WHERE HAVING, WHERE -
 HAVING .

WHERE, HAVING. -
 WHERE,

```
SELECT cCountry ;
FROM Customer ;
GROUP BY cCountry;
HAVING COUNT(*)>10
```

Предупреждение

HAVING GROUP BY.

EXISTS

EXISTS True (),

(). NOT EXISTS , EXISTS False ,

Замечание

EXISTS NOT EXISTS

```

SELECT cNmGoods ;
FROM Goods ;
WHERE EXISTS
(SELECT *
FROM Customer, Ordsalem, Ordsaled ;
WHERE Ordsalem.icdOrder=Ordsaled.icdOrder ;
AND Ordsalem.icdCustomer = Customer.icdCustomer ;
AND Ordsaled.icdGoods = Goods.icdGoods ;
AND Customer.cCity = ' ' )

```

UNION

UNION.

2103:

```

SELECT icdCustomer ;
FROM Customer ;
WHERE cCity = ' ' ;
UNION ;
SELECT icdCustomer;
FROM Ordsalem, Ordsaled ;
WHERE Ordsalem.icdOrder=Ordsaled.icdOrder ;
AND icdGoods = 2103

```

UNION,

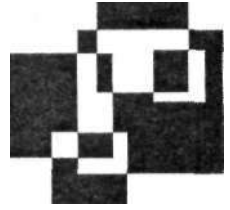
ALL.

Предупреждение

ORDER BY

SELECT.

UNION



Visual FoxPro —

Visual FoxPro 8,
Visual FoxPro

Visual FoxPro.

Visual FoxPro

Visual FoxPro,

Visual FoxPro

Visual FoxPro,
Visual FoxPro

(. 19.1),

19.1.

Visual FoxPro

ActiveDoc

CheckBox

Cplumn

ComboBox

CommandButton

CommandGroup

Container

Control

Custom

EditBox

Form

FormSet

Grid

Header

HyperLink Object

Image

Label

Line

ListBox

OleContainerControl OLE

OleBoundControl OLE

OptionButton

OptionGroup

Page

PageFrame

ProjectHook

Separator

Shape

Spinner

TextBox

Timer

ToolBar

Visual FoxPro (container class).

(, ProjectHook).

(, Timer)

(, FormSet),

—

19.2.

Class

BaseClass

ClassLibrary

ParentClass

19.3.

Init

Destroy

Error

Grid () . 19.1.

```

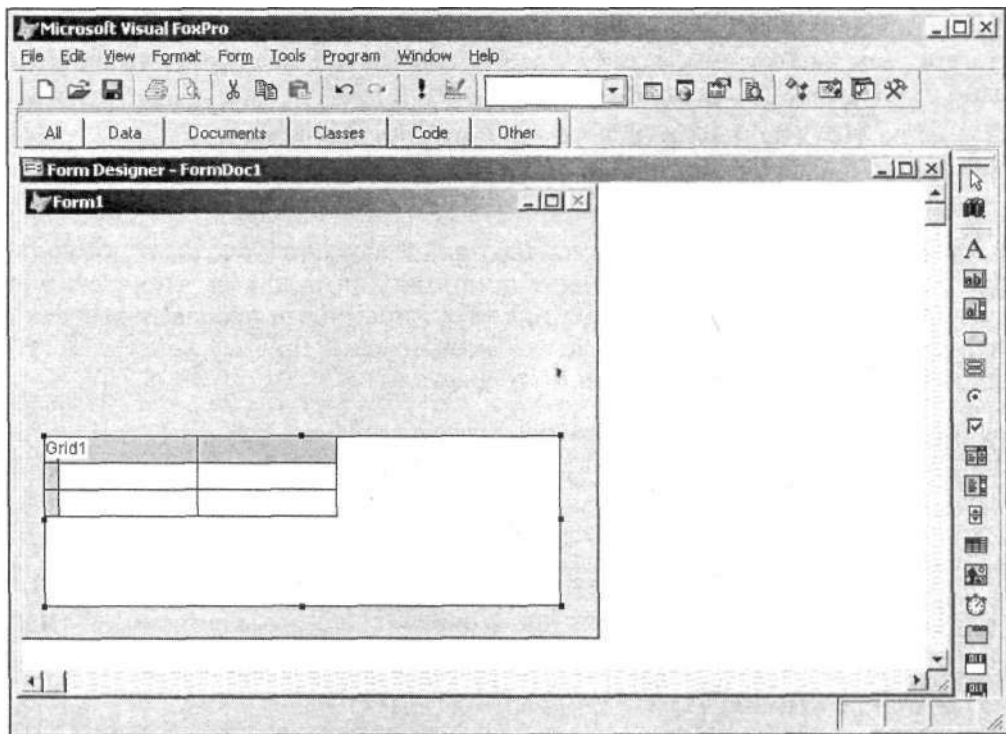
CREATEOBJECT(
CREATEOBJECT( [ , 1, 2, ...])
CREATEOBJECT

```

```

frmNew=CREATEOBJECT("FORM")
frmNew.Caption="3a o o "
frmNew.Show()

```



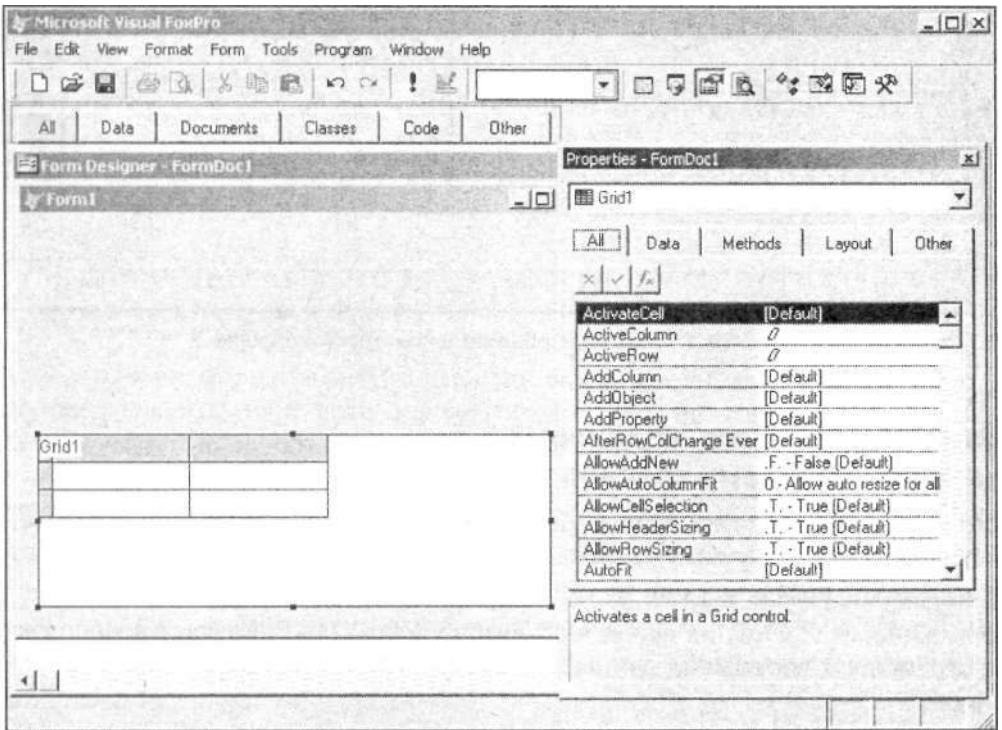
. 19.1.

Visual FoxPro

:

- (, , ,
- . .);
- , , -
- ;
- ,

- View () Properties ();
 - Properties ().
- (. 19.2).
- (, ,).



. 19.2.

*
 fnriNew.Caption = cName

cName

Visual FoxPro

-

WITH ... ENDWITH,

:

WITH [,]

[. =]

ENDWITH

,

:

WITH cmdNext, cmdPrev

.ForeColor=RGB(0,0,0)

.BackColor=RGB(255,255,255)

ENDWITH

Visual FoxPro,

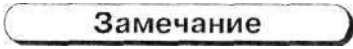
,

"

"

"

"



Value ().

Visual FoxPro

New

Property () (. 19.3),

New Property ()

Form ().

New Property ()

. 19.4.

19.4.

New Property

Access Method

()

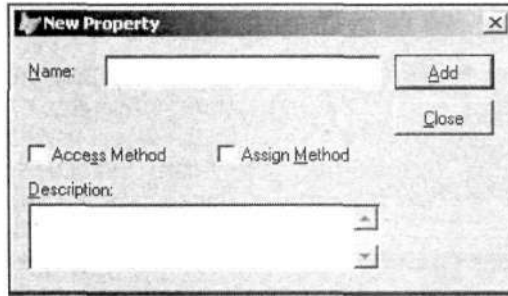
Access ()

Assign Method

()

Assign ()

Other ()



19.3. New Property

Visual FoxPro

Visual FoxPro

Methods ()

(. 19.4).

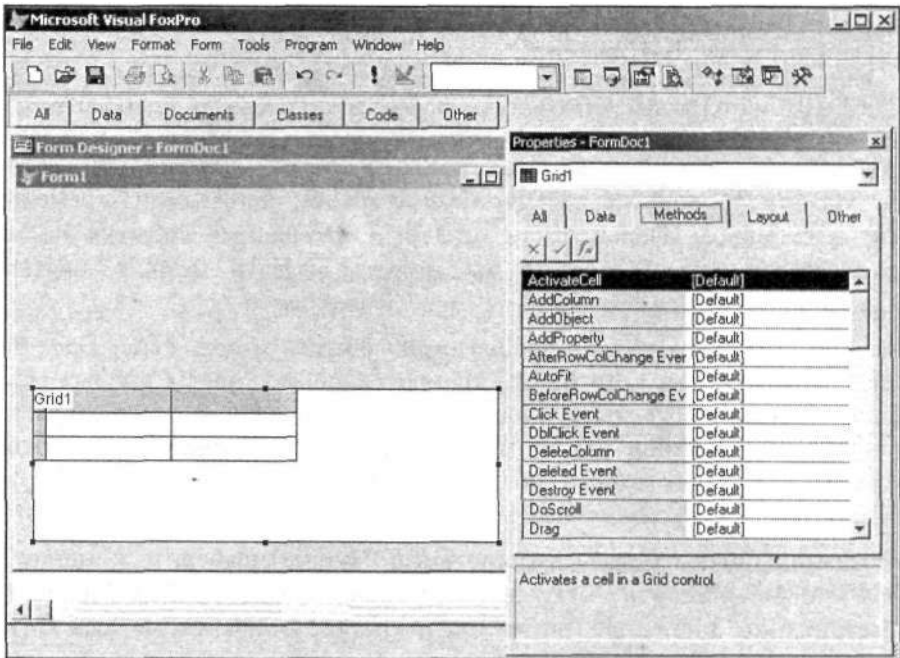
click

()

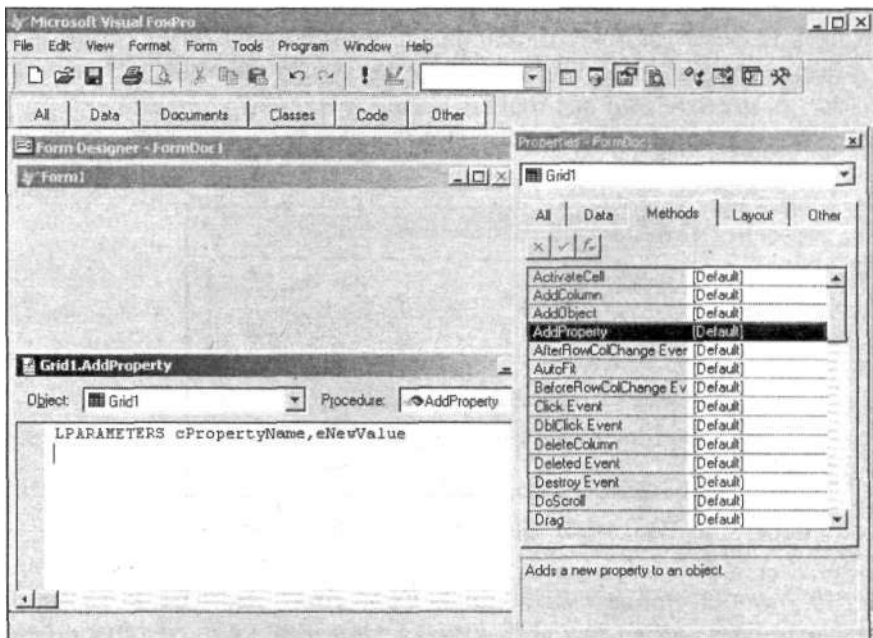
). Visual FoxPro

(. 19.5),

NODEFAULT



. 19.4. Methods



. 19.5.

Замечание

Event ().

MOUSE

click (), Doubleclick (), MouseMove (), DragDrop ().

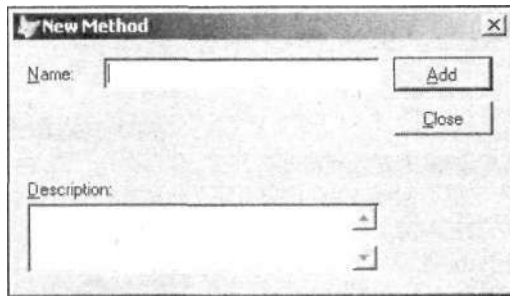
Method () (. 19.6)

Form () **New Method ()**

Sales

Sales.CalcSumO.

CaicSum



. 19.6.

New Method

. 19.5 . 19.6

Visual FoxPro,

Activate	()	, Page ()	FormSet ()	, Form
			ToolBar ()			
AfterBuild					(dll)		-
		()				
AfterCloseTables							
AfterDock							
AfterRowColChange			Grid ()			
BeforeDock					ToolBar ()	
BeforeOpenTables							
BeforeRowColChange					Grid ()	
Click							
CommandTargetExec			Active Document ()			
CommandTargetQuery							-
ContainerRelease			Active Document ()			
DbClick							
Deactivate							
Deleted					DELETE		
Destroy							
DownClick							
			ListBox ()	comboBox ()	,
			Spinner ()			
DragDrop					"	"	
DragOver							-

DropDown	,	ComboBox (-
Error)
ErrorMessage		Valid	False ,
GotFocus			-
HideDoc			
Init	,		
Interactive Change			-
KeyPress			
Load			
LostFocus			
Message			,
MiddleClick		(
)		
MouseDown			
MouseMove			
MouseUp			
MouseWheel		,	
Moved			-
	T	Left	-
OLECompleteDrag	"	"	
OLEDragOver	1	,	OLEDropMode
OLEGiveFeedBack		OLEDragOver	
OLESetData	GetData,		

OLEStartDrag	"	"	
Paint			
ProgrammaticChange			
QueryAddFile			
QueryModifyFile			
QueryRemoveFile			
QueryRunFile			-
QueryUnload		Form ()	
RangeHigh			-
	Spinner ()	TextBox ()	-
		ComboBox ()	-
		ListBox ()	
RangeLow			
	Spinner ()	TextBox ()	-
	ComboBox ()		ListBox
ReadActivate			
ReadDeactivate			
ReadShow	FormSet ()	SHOW GETS,	FormSet
ReadValid	()		FormSet
ReadWhen		FormSet ()	
Resize			
RightClick			
Run		Active Document ()	-
Scrolled			Grid (-

ShowDoc

Timer

Interval ()

UIEnable

Page (),
Page ()

UnDock

ToolBar ()

Unload

UpClick

ComboBox (),
ListBox () Spinner ()

Valid

,

When

,

19.6.

Visual FoxPro

ActivateCell

Grid ()

AddColumn

Grid () Column ()

AddItem

) ListBox (-),
ComboBox (-)

AddListItem

) ListBox (-),
ComboBox (-)

AddObject

AddProperty

AddToSCC

Box

Build

(dll) (),
() -

CheckIn ,
 Checkout
 Circle
 CleanUp , -
 Memo
 Clear () ListBox () ComboBox
 ClearData Dataobject ().
 CloneObject ,
 Close Project () ProjectHook ()
 CloseTables ,
 Cls
 DataToClip
 Windows
 DeleteColumn Column ()
 Grid ()
 Dock ToolBar () -
 Visual FoxPro
 DoCmd Visual FoxPro
 Visual FoxPro
 DoScroll
 Grid ()
 DoVerb OLE
 Drag ,
 Draw
 Eval
 GetData Dataobject ().

19.6 ()

GetFormat	True, Dataobject ().	- -
GetLatestVersion		
GoBack		-
GoForward		-
Help		
Hide	Form (), FormSet (), ToolBar (Visible False	
IndexToItemID	ComboBox () ListBox ()	
Item		, -
ItemIDToIndex	ComboBox () ListBox ()	-
Line		
Modify		-
Move		
NavigateTo	Active Document ()	
OLEDrag	" "	
Point	RGB ()	
Print	Form ()	, -
PSet	FoxPro	Visual
Quit	Visual FoxPro	
ReadExpression	,	

ReadMethod				
Refresh		Form ()		-
Release	()	FormSet ()	Form	
Remove				
RemoveFromSCC				
RemoveItem	()	ListBox ()	ComboBox	
RemoveListItem	()	ListBox ()	ComboBox	
RemoveObject				
Requery	()	ListBox (,)	ComboBox	
RequestData	FoxPro		Visual	
Reset		Timer		
ResetToDefault			Visual FoxPro	
Run				-
SaveAs			SCX	
SaveAsClass				-
SetAll		Container ()		
SetData		DataObject ().		
SetFocus				
SetFormat		DataObject ().		
SetMain				

```

SetVar
SetViewPort          ViewPortLeft  ViewPortTop

Show                Form (      )  —

ShowWhatsThis      WhatsThisHelpID  ,

TextHeight          Form (      )  , ScaleMode

TextWidth           Form (      )  , ScaleMode

UndoCheckOut       ,

WhatsThisMode      Whats This Help (
                  ?)

WriteExpression

WriteMethod

ZOrder              Form (      )  -

```

```

Visual FoxPro
,
Grid (      ).
,
merid Customer Grid (      ) coiCusto -
:
Customer.colCustomerId
. Visual FoxPro -
,
(      , . :
,

```



```

    ),
    ActiveForm
    (
        ) (_SCREEN).
    :
    _SCREEN.ActiveForm. ti n="
    , ActiveForm (
        ) -
    (
        ) — , ActiveForm
    _SCREEN.ActiveControi.Caption="
    Parent
    (
        ) Parent (
        )
    19.7.

```

19.7.

THIS

THISFORM

THISFORMSET

```

THIS.BackColor=RGB(255,255,255)

```

```

THIS.Parent.BackColor=RGB(192,0,0)

```

```

THISFORM.Caption=" p a ,

```

```

THISFORMSET.Caption=' p y a ,

```

```

frmNew=CREATEOBJECT("FORM")

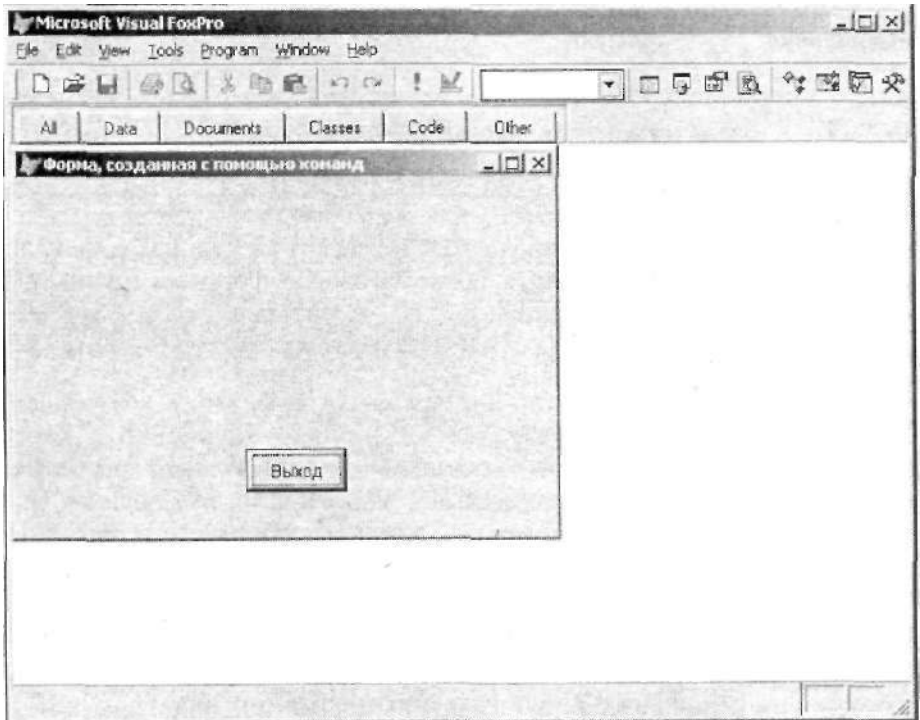
```

```

frmNew.Caption="OopMa,
frmNew.Show()
frmNew.AddObject("Button", "CommandButton")
cmdButton=frmNew.Button
cmdButton.Visible=.T.
cmdButton.Top=190
cmdButton.Left=160
cmdButton.Width=70
cmdButton.Height=30
cmdButton.Caption="
frmNew.AddObject("Button", "CommandButton") frmNew
CommandButton ( ) -
Button ( ). -
. 19.7 , .

```

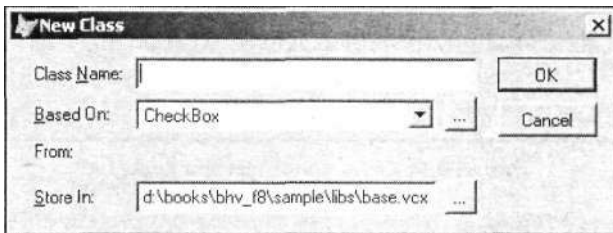
Совет



Visual FoxPro.

Visual FoxPro

- **Classes** () **New**
- **File** () **New** (), **New File**
- **Class** () **CREATE CLASS.**
- **New Class** () (. 19.8).



. 19.8.

New Class

Class Name ()

Based On () —

From ()

Visual

FoxPro

Store In ()

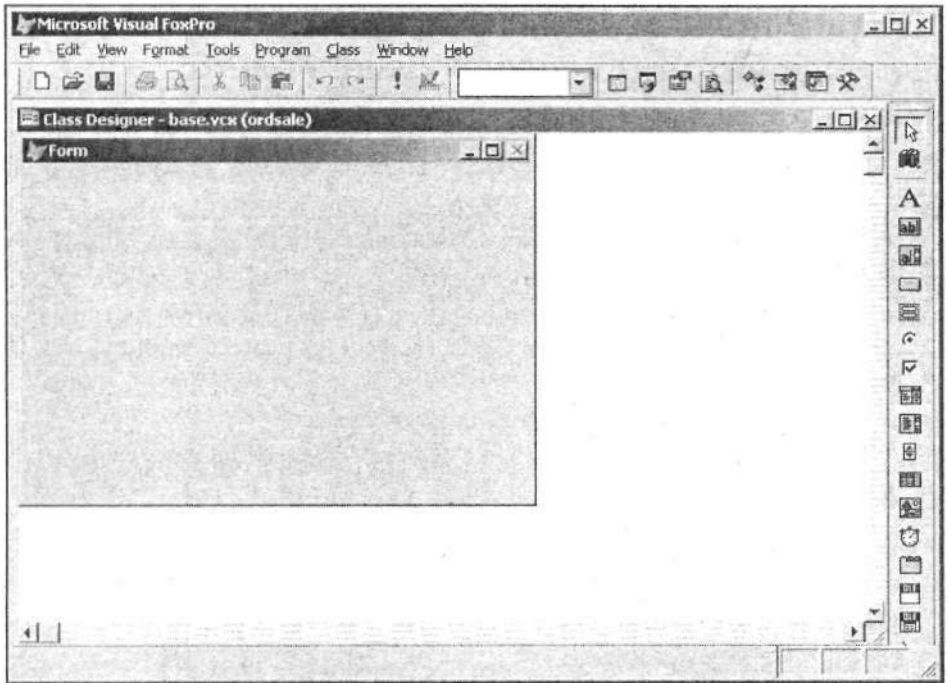
VCX.

Save as

(),

Замечание

CREATE CLASSLIB



. 19.9.

Class () (. 19.9),
 . 19.8.

19.8.

Class

NewProperty()

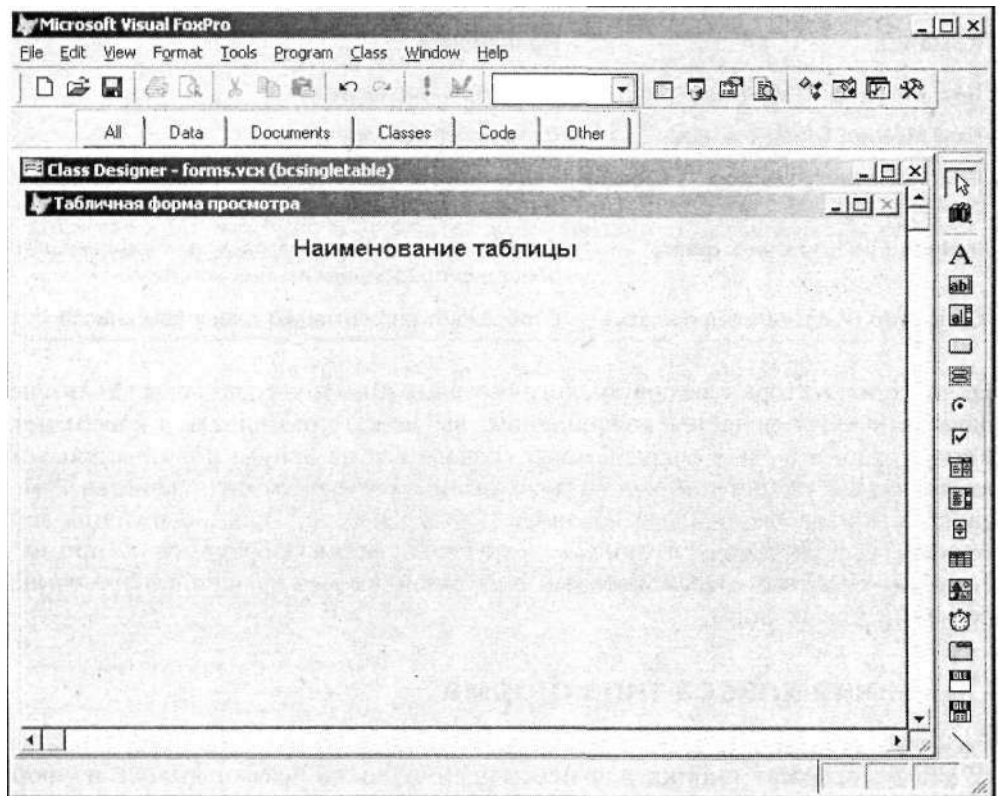
NewMethod()

Edit Property/Method (/)

Include File ()

Class Info ()

1. Sales, **Classes** (-
) **New** ().
2. **New Class** ()
Class Name () **bcSingleTable**.
3. **Based On** () Form ().
4. **Store In** () Forms
 (), .
5. Caption () , .
6. (. 19.10). ,



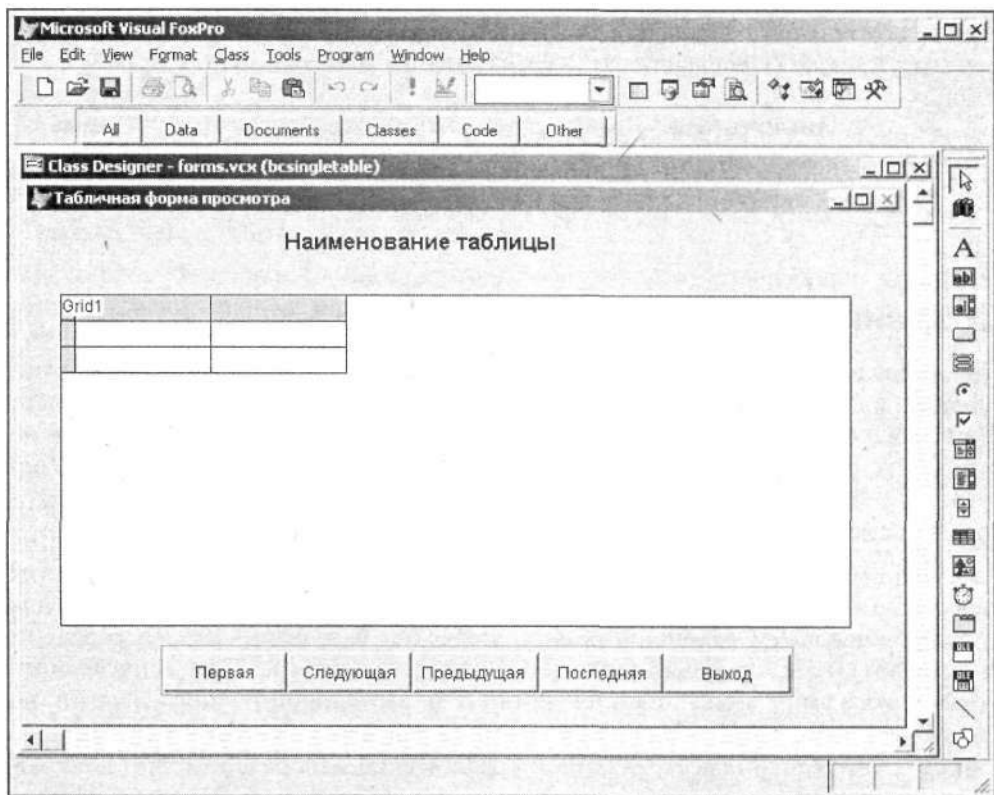
. 19.10.

7. Grid ()

8. Grid () Readonly
() True (),

9. ,

10. . 19.11. ,



. 19.11.

Visual FoxPro

New Class (),

Classes ()

Remove ()

Rename ()

Замечание

REMOVE CLASS,
CLASS.

—

RENAME

1. sales.

2. **Classes** ()

New ().

3. New Class ()

Class **Name** ()

bcCmdButton.
commandButton

Based On ()

(),

Store In ()

Buttons (),

BASE.VCX

Visual FoxPro,

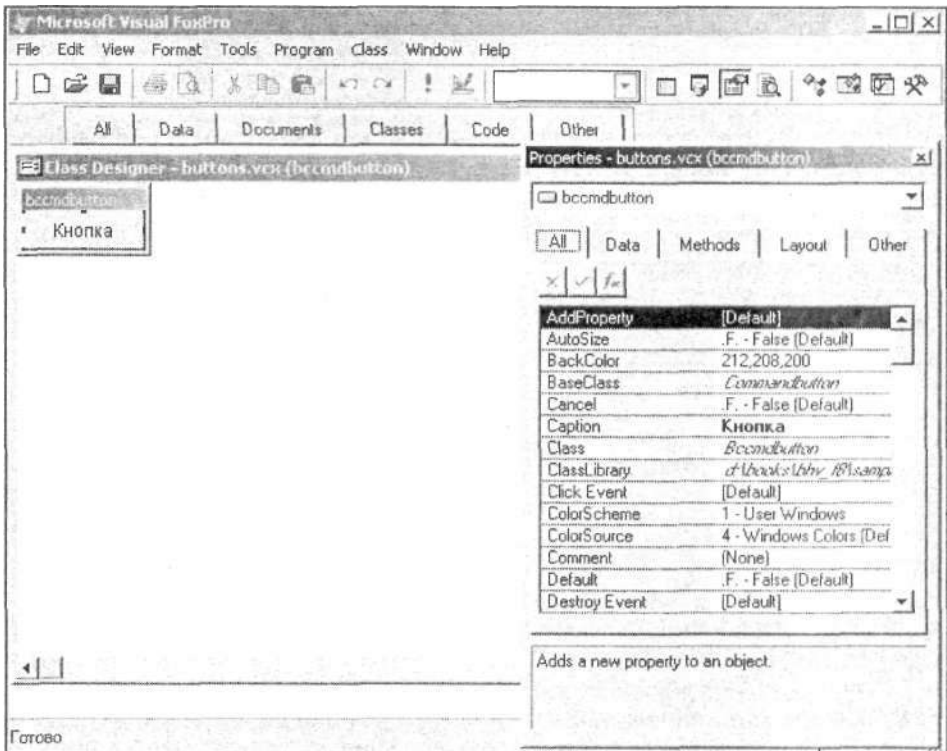
4.
5.

Caption (),
(. 19.12).

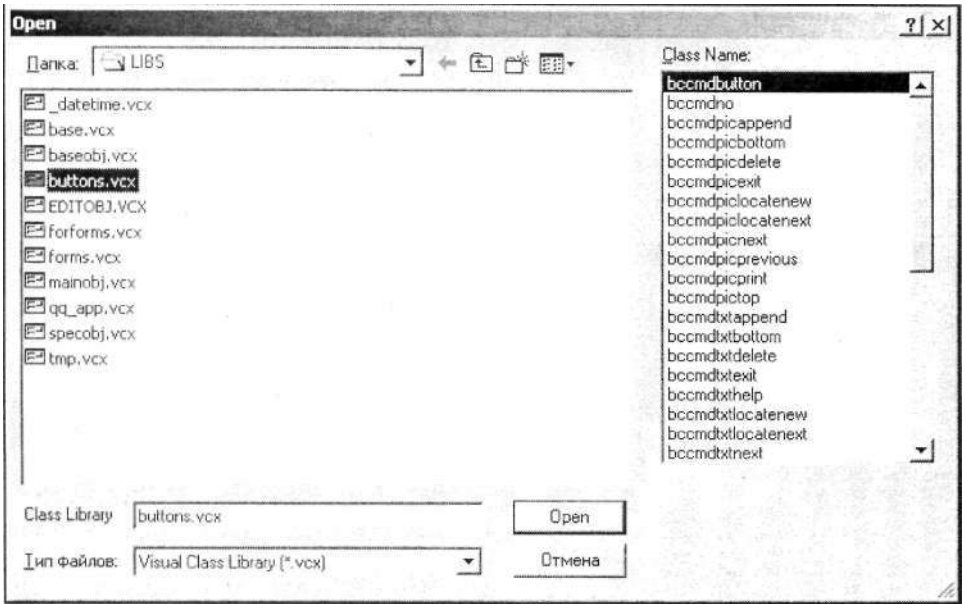
6.
7.

Classes (),

New ().

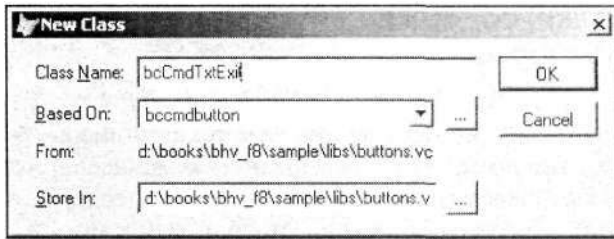


8. **New Class ()**
Class Name () *bcCmdTxtExit.*
Store In ()
Buttons (),
Visual FoxPro,
Based On ()
Open () (. 19.13).



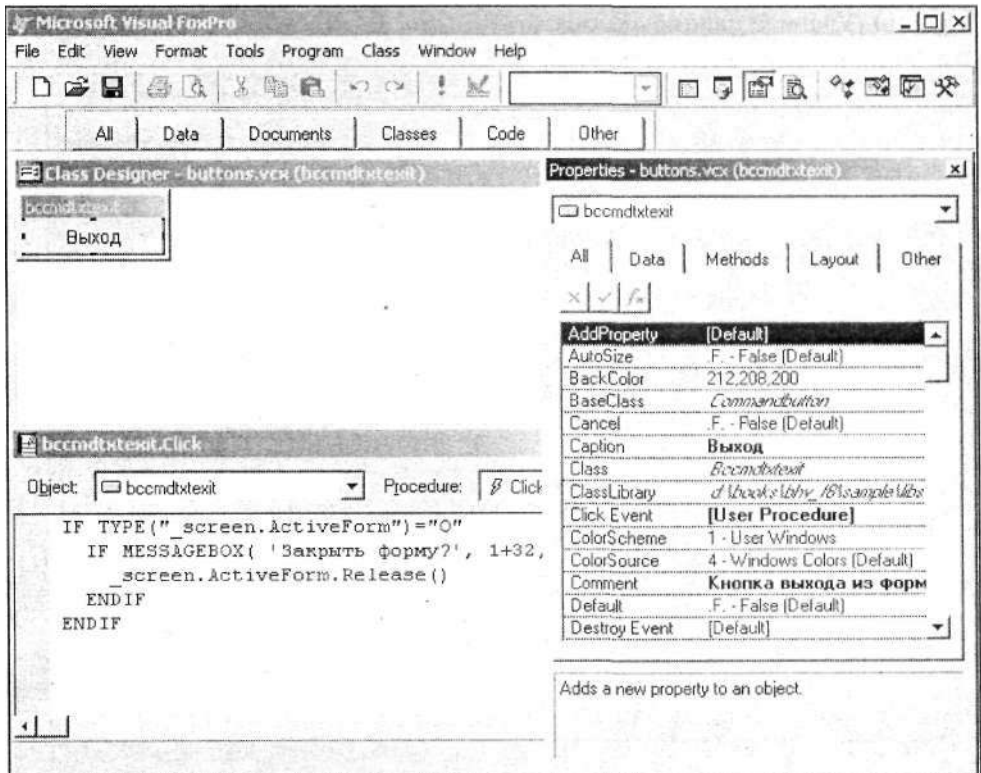
. 19.13.

9. **Class Name ()**,
bcCmdButton,
Open (),
New Class (),
Based On () From ()
(. 19.14).
()



. 19.14. New Class

10. () , caption
11. click () , (. 19.15).
- 12.



. 19.15.

Windows,

).

1. **Classes** () **New** ().

2. **New Class** ()

Class Name () *bcCmdPicExit.*

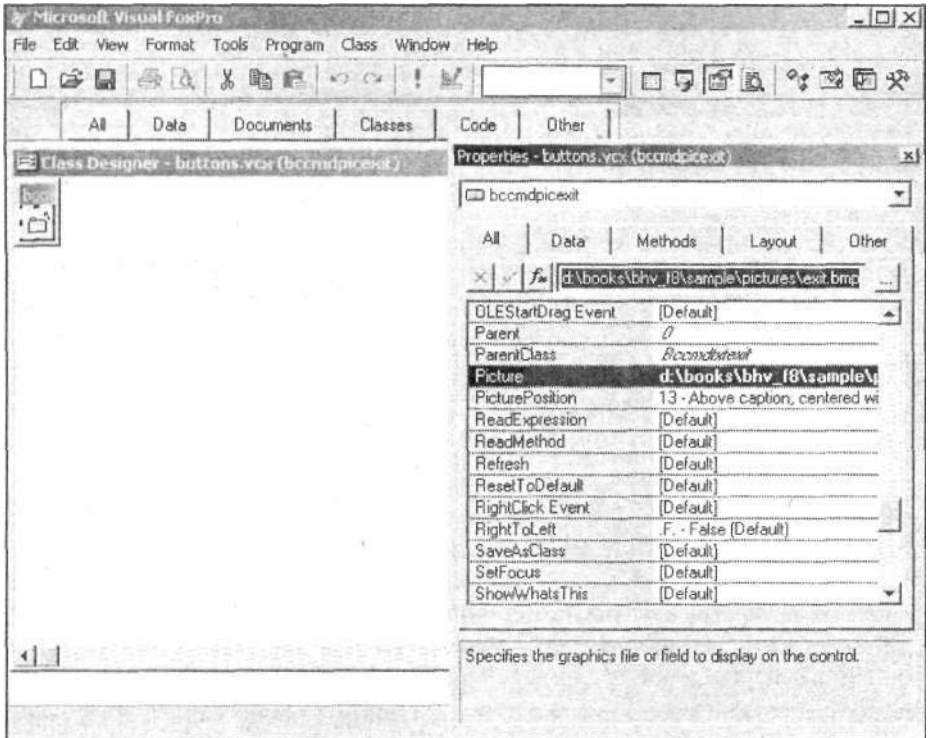
Store In ()

Buttons,

bcCmdTxtExit

Buttons ().

3.



4. Picture () (. 19.16). -



Buttons ().


1. Sales.

2. Forms () Classes (), bcSingleTabie Modify ().

3. -

4. -

5. View Classes ()  Form Controls (). -

6. Add (), Add (). -  Add... Standard DLE Controls Baseobj Buttons Editobj Forms Specobj

7. Open () Buttons ()

Open ().

View Classes () -

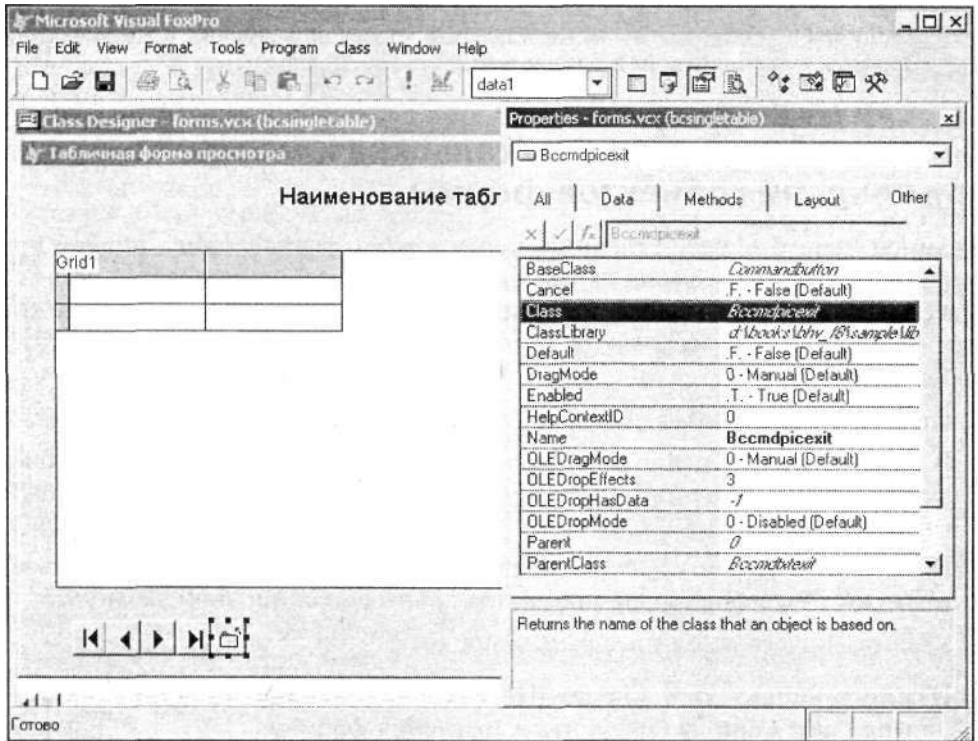
Buttons ().

8. Buttons () Form Controls () -

9.

Other ()

(. 19.17).



. 19.17.

Class Info (),

Class () Class Info ().

Class ()

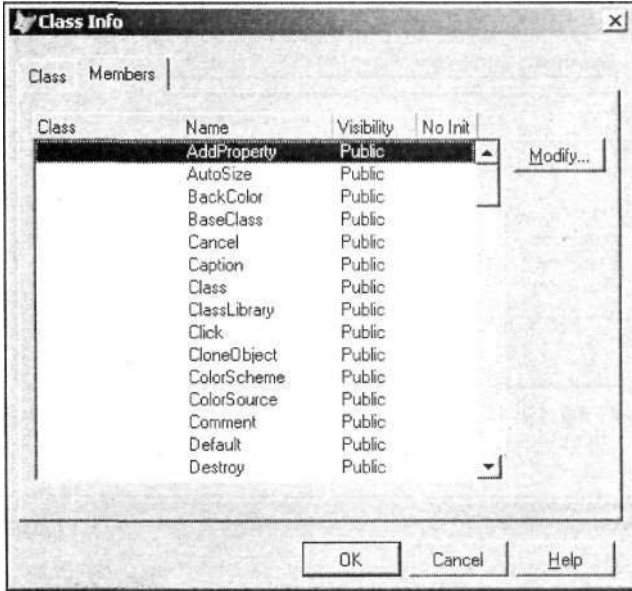
Description (),

Members () (. 19.18)

Class ()

Name () —

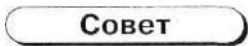
Visibility (),
 — Public (), Protected ()
 Hidden (),
 No Init (He)
 init ()



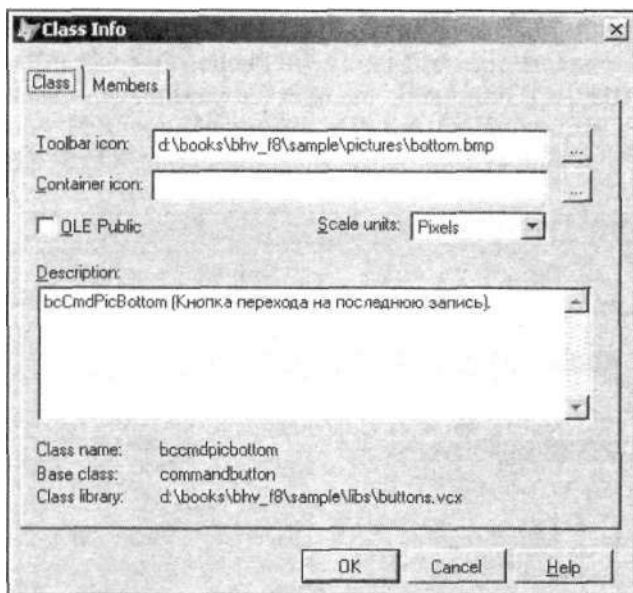
. 19.18. Members Class Info

Class () (. 19.19).
 Toolbar icon ()
 Form Controls ()

Container icon ()
 Class Browser ().



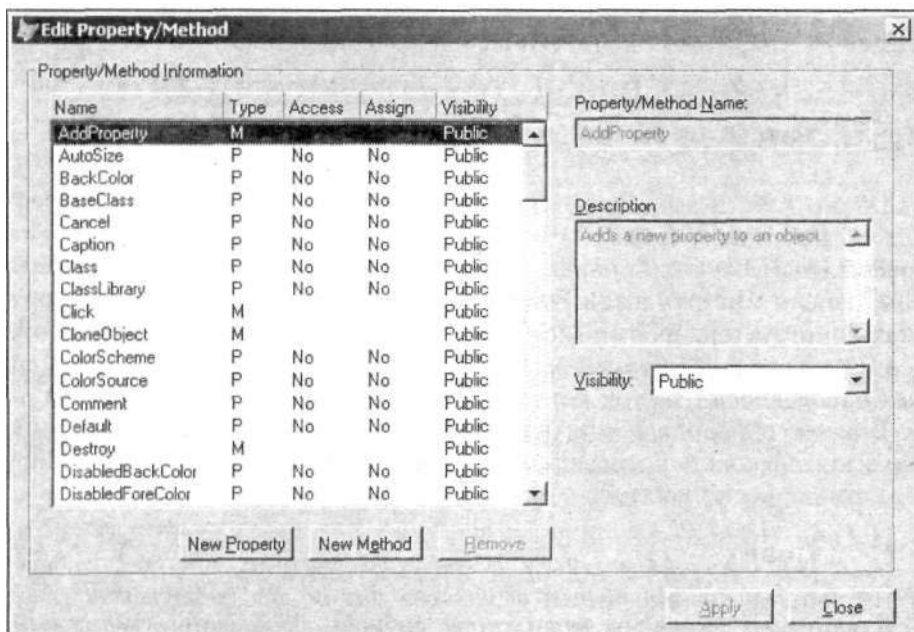
Form Controls (),



. 19.19.

Class

Class Info



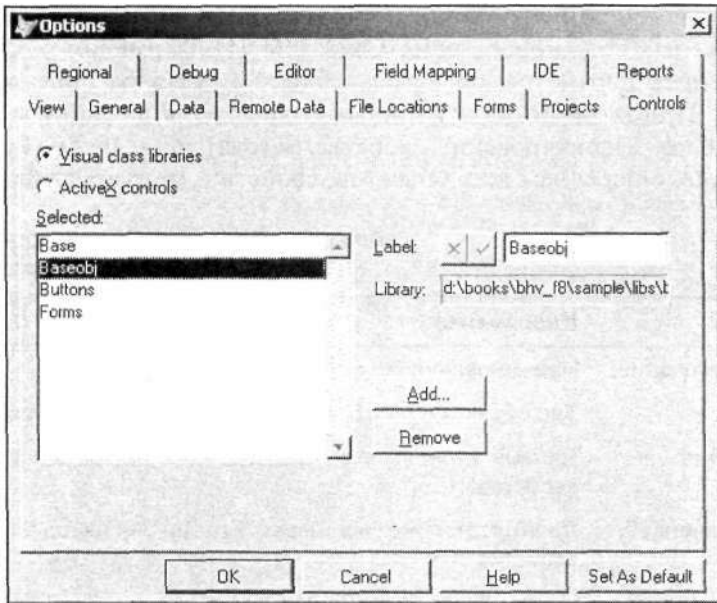
. 19.20.

Edit Property/Method

Members () **Modify** (),
Class Info (),
Edit
Property/Method (/) (. 19.20),
(. 19.9).
19.9.
Edit Property/Method

Name () ,
() : — , — , —
Access () , Access
Assign () , Assign
Visibility ()

() **Form Controls**
() **Add**
View Classes (),
(. 19.21)
Options (-
Tools ().
Visual
class libraries ().
Selected () ,
Add (),
Open ().
Remove ().
Set As Default ()

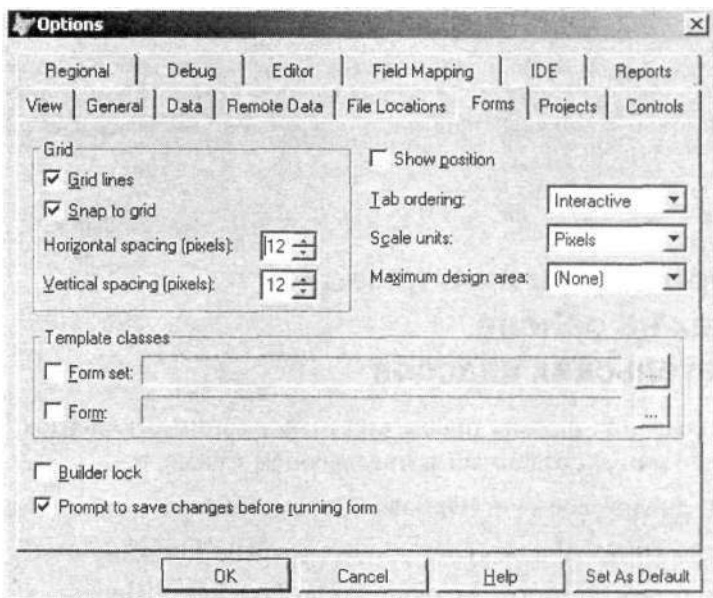


. 19.21.

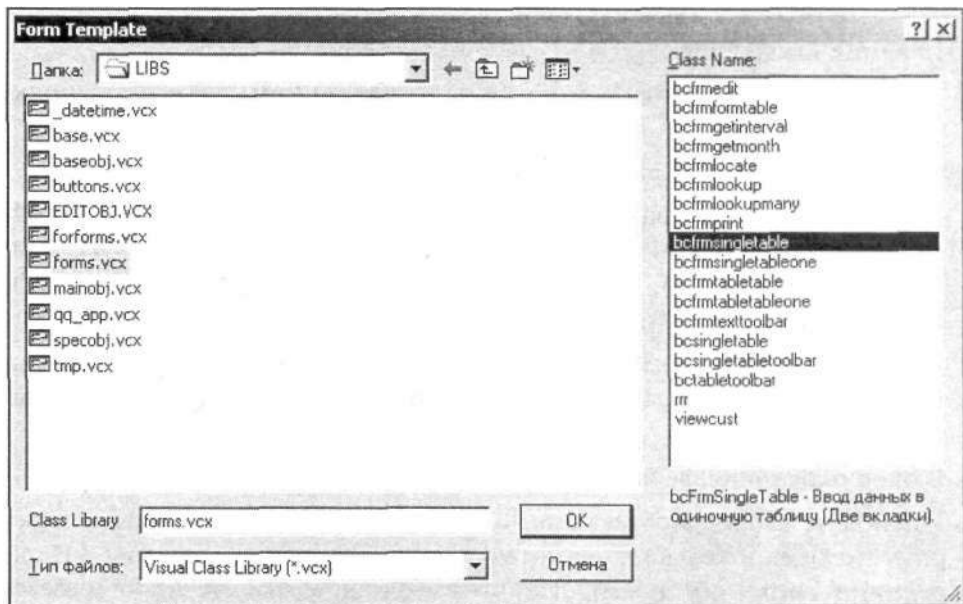
Controls

Options

- () Forms () (. 19.22) Options
1. Forms () Options ()
 Template classes () Form
2. Form Template () (. 19.23).
 Class Name () — -
- 3.
4. Options (),



. 19.22.



. 19.23.

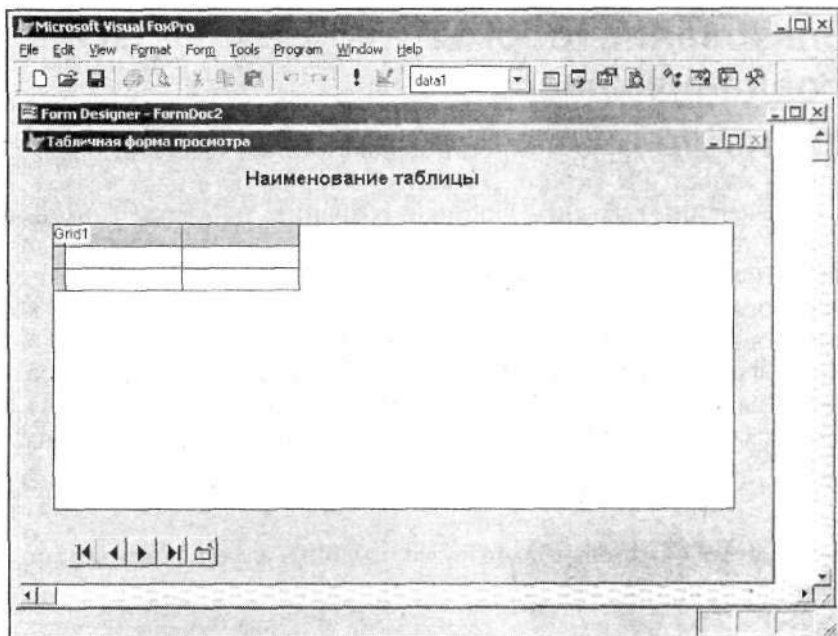
Form Template

Замечание

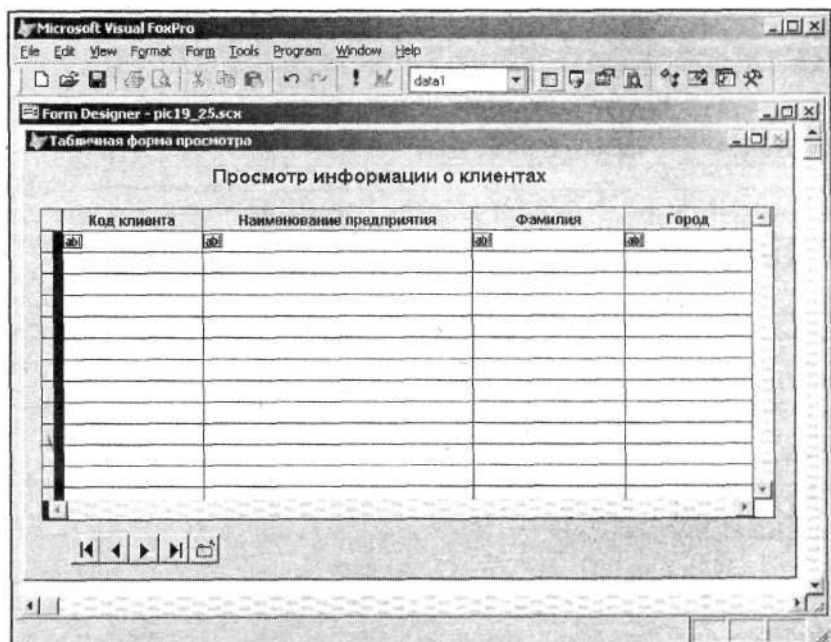
Options () Forms ()
) Form set ()

bcSingleTable,

1. **Options** ().
2. **Forms** () **Form** ().
3. **Form Template** () () ().
(. 19.23) Forms ().
4. **Class Name** ()
bcSingleTable.
5. .
6. **Options** (),
7. sales.
8. **Documents** (),
 Forms () **New** ().
- bcSingleTable (. 19.24).
9. ,
 caption (),
10. Customer.
11. Grid ().
 Customer
- (. 19.25).
12. .



. 19.24.

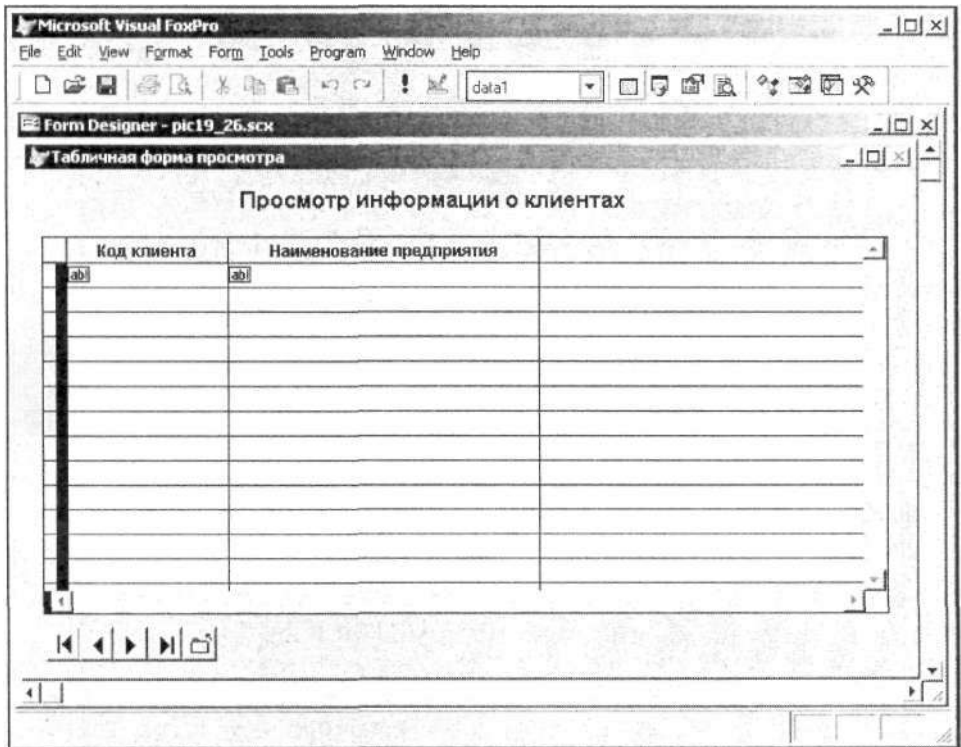


. 19.25.

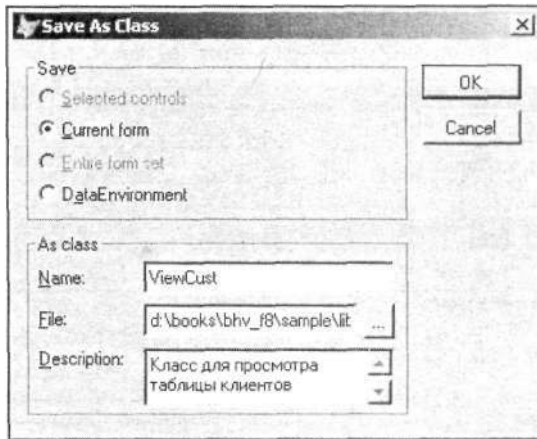
Visual FoxPro

icdCustomer cCompany Customer.

- 1.
2. Grid ()
icdCustomer cCompany (. 19.26).



3. **File** () **Save As Class** ()
).
4. **Save As Class** ()
 (. 19.27) **Save** ()
Current form (). **Name** () **Description** () —



. 19.27.

СОВЕТ

Save As Class ()
Save () **Selected controls** ()
).

Save As Class ()
Save () **Entire form** ()
set () **DataEnvironment** ()

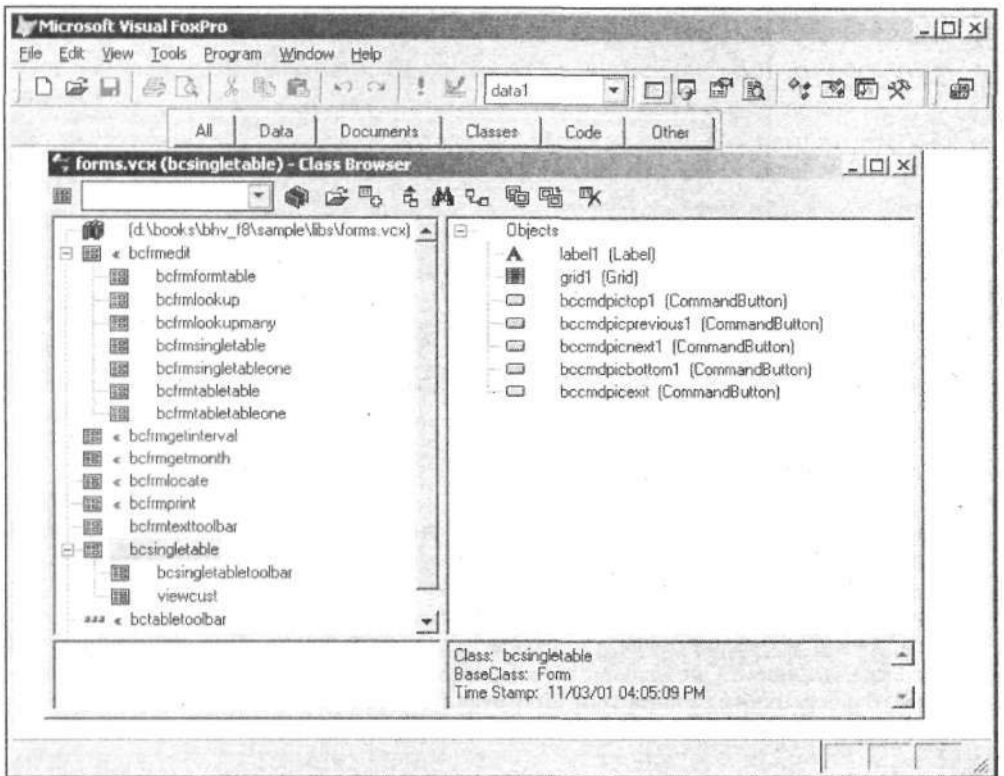
Class Browser

Visual FoxPro
 , — **Class Browser** () ,

Class Browser ()

- Tools () Class Browser ();
-  Class Browser ();
- DO (_BROWSER).

Browser.app, Class Browser ()
 (. 19.28),





. 19.28. Class Browser

Class Browser (-

Info () Class ().

Class

Замечание

Class Browser ()
 Class Browser ()
 Additional File () 
 Class Browser () Open (-)
 ()  Open (-)

Замечание

Class Browser ()
 Class Type (,) ,

Class Browser ()
 . 19.10.

19.10.

Class Browser



Find ()

Find ()



New Class ()
 ()

New Class



Rename ()



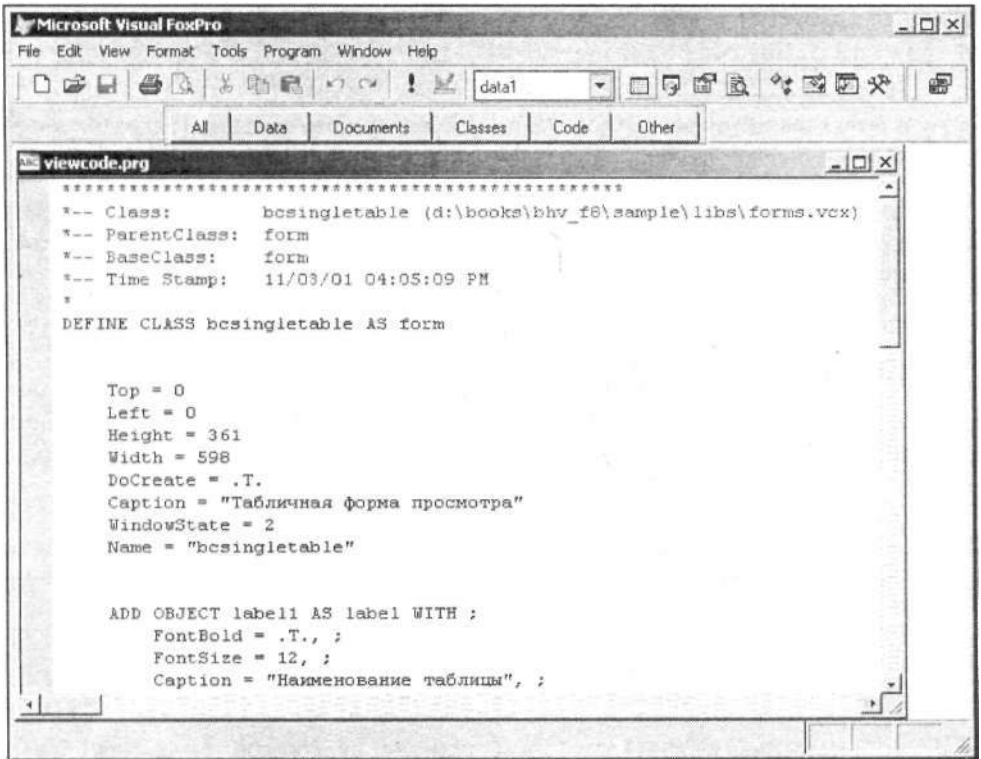
Redefine ()



Clean Up Class Library ()



View Class Code (. 19.29).

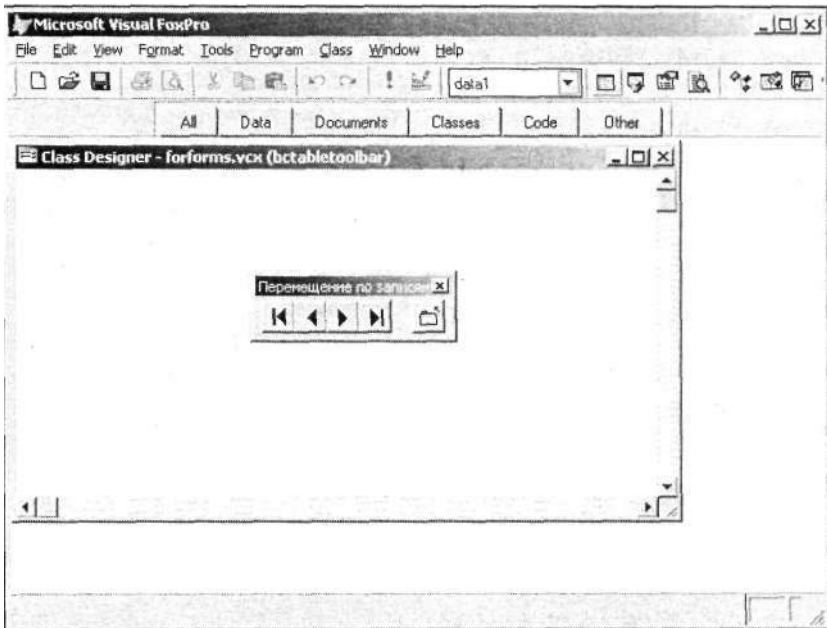


. 19.29.

Windows.

Visual FoxPro

1. sales.
2. Classes ()
New ().
3. New Class ()
Toolbar (), b bl 1B
ForForms,
4. (. 19.30).

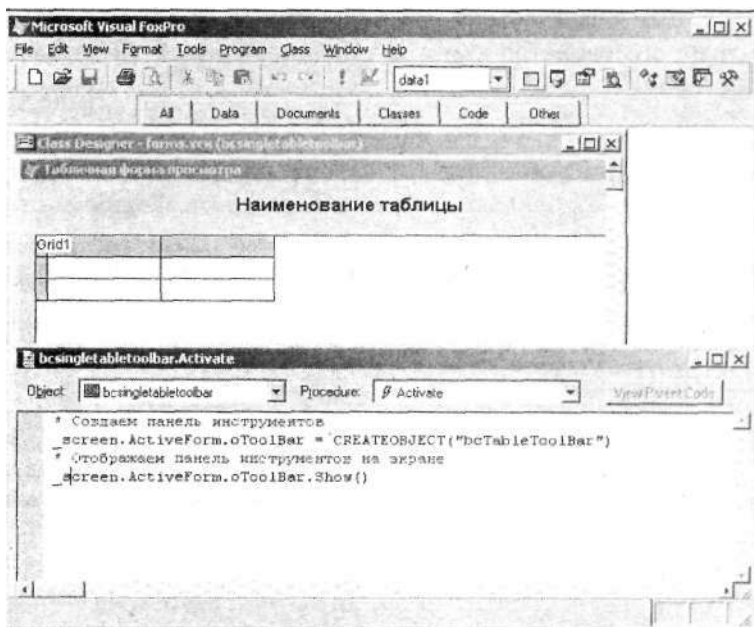


. 19.30.

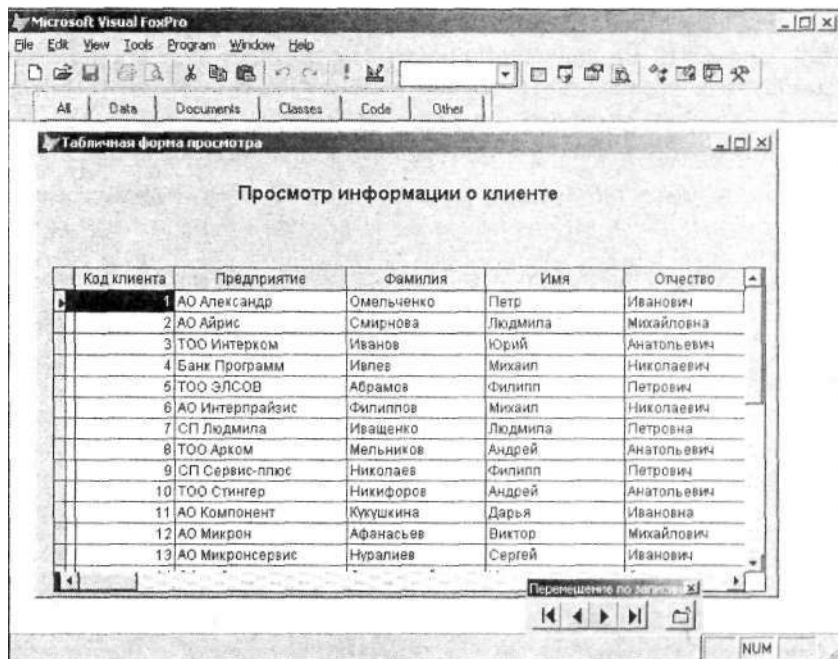
```

.
.
.
:
1.      Sales.
2.      Classes (      )
      New (      ).
3.      New Class (      )
Class Name (      )
bcSingleTableToolBar. Based On (      )
      Form (      ), Store In (      )
      Forms (      ),
4.      Grid (      ).
5.
      oToolBar      , New Property (
      ) Class (      ), Activate (
      )
      :
*
_screen.ActiveForm.oToolBar=CREATEOBJECT("bcTableToolBar")
*
_screen.ActiveForm.oToolBar.Show()
6.      . 19.31.
7.
      Options (      ),
      Forms (      ) Form
      (      ) bcSingleTableToolBar
      Forms (      ).
8.      Sales.
9.      Documents (      ),
      Forms (      ) New (      ).
      bcSingleTableToolBar.

```



. 19.31.

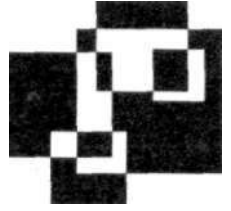


. 19.32.

- 10. caption (),
- 11. customer.
- 12. Grid ().
Customer
- 13. 19.32

СОВЕТ

bcTableToolBar , Activate
 ()
 SET CLASSLIB TO



FoxPro

Visual

Visual FoxPro

:

Visual FoxPro

FoxPro
(. 20.1).

20.1.

ALTER TABLE

APPEND

APPEND BLANK

APPEND FROM

APPEND FROM ARRAY

APPEND MEMO

BLANK

BROWSE

CHANGE

DELETE

DELETE NEXT 1

DELETE <n> n 1,

DELETE RECORD <n> n

DELETE SQL

EDIT

GATHER

INSERT

INSERT SQL

MODIFY MEMO

READ '

RECALL

RECALL NEXT 1

RECALL RECORD <n> n

RECALL <n> n 1,

REPLACE

REPLACE NEXT 1

REPLACE RECORD <n> n

SHOW GETS

TABLEUPDATE()

UPDATE

UPDATE SQL

Замечание

SET EXCLUSIVE ON.

SET EXCLUSIVE OFF.

EXCLUSIVE

USE.

SET EXCLUSIVE ON
USE CUSTOMER

USE CUSTOMER EXCLUSIVE

- ALTER TABLE;
- INDEX;
- INSERT [BLANK];
- MODIFY STRUCTURE;
- PACK;
- REINDEX;
- ZAP.

, FoxPro
Exclusive Open of File Required.

FLOCK,
FLOCK([] | [])

.F. ().

customer

REPLACE ALL FLOCKO.

UNLOCK

(

),

```

SET EXCLUSIVE OFF
SET REPROCESS TO 0
USE Customer
IF FLOCK
    REPLACE ALL cLastName WITH UPPER(cLastName)
    UNLOCK
ELSE
    WAIT "          ,          " WINDOW NOWAIT
ENDIF

```

SET RELATION -

, -

, -

, -

, -

LOCK :

```

RLOCK,
RLOCK([ | ]
| [ ,
| ]
, ,

```

LOCK -

SET -

MULTILOCKS ON -

"3, 5".

Замечание

RECNO().

.. () -

,
-

.F. ().

Совет

LOCK.

SET MULTILOCKS,

:

SET MULTILOCKS ON | OFF

ON

,

OFF

Замечание

MULTILOCKS ON OFF

OFF ON

REPROCESS,

()

SET

-
-

SET REPROCESS

:

SET REPROCESS TO

[SECONDS] | TO AUTOMATIC

SECONDS,

-

1 32 000,

0.

AUTOMATIC,
0, Visual FoxPro

<Esc>.

SET REPROCESS TO 1 Visual FoxPro

Замечание

20.2

20.2.

CLOSE

CLOSE ALL

END TRANSACTION

QUIT

UNLOCK

UNLOCK ALL

USE

SET MULTILOCKS OFF

FLOCK()

TABLEUPDATE()

```

UNLOCK,
UNLOCK [RECORD ] [IN < | >] [ALL]
UNLOCK
.
RECORD , -
.
ALL RECORD .

```

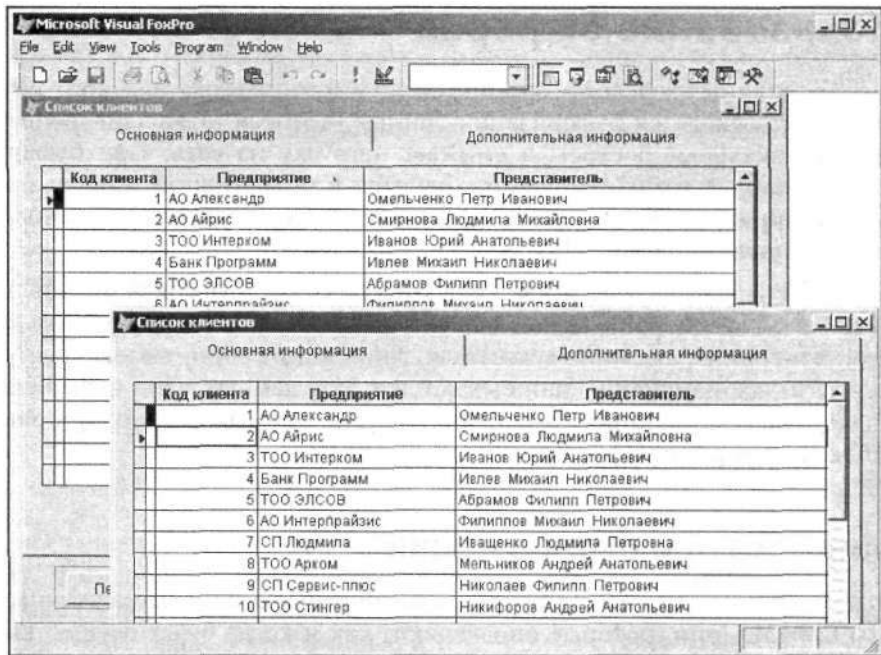
Замечание

Visual FoxPro

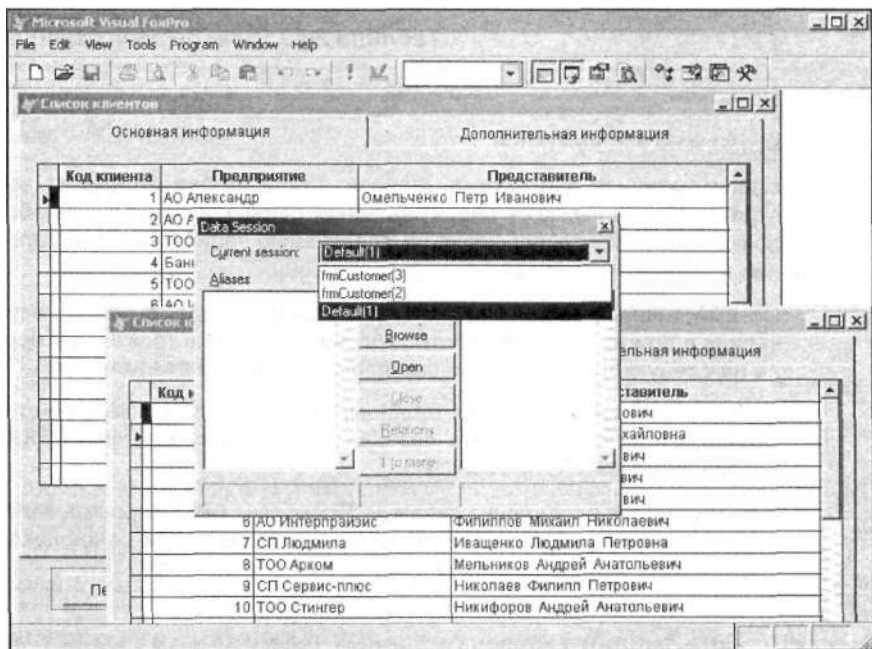
```

.
( . 20.1),
.
Datasession ( ) , Datasession 1, 1 -
2. , , -
.
2, . -
.
:
• Data Session ( ), -
Windows ( ), Current
session ( ) ( . 20.2);
• SET DATASESSION TO C .

```



. 20.1.



. 20.2.

Visual FoxPro

-
-
-

Visual FoxPro

(
TABLEUPDATE)

-
-

TABLEUPDATE () .

Visual FoxPro

-

(. 20.3).

20.3.

1

2

. Visual FoxPro

-
-

TABLEUPDATE ()

3

TABLEUPDATE ()

-

4

TABLEUPDATE ()

5

TABLEUPDATE ()

-

TABLEREVERT () .

-

CURSORSETPROP (), BufferMode BufferModeOverride
 ,
 BufferMode
 . 20.4.
 20.4. BufferMode

0

1

2

BufferModeOverride
 Data Environment ()
 View (). Data Environment () -
 ,
 Properties ().
 BufferModeOverride (. 20.3)
 (. 20.5).
 20.5. BufferModeOverride

0

1

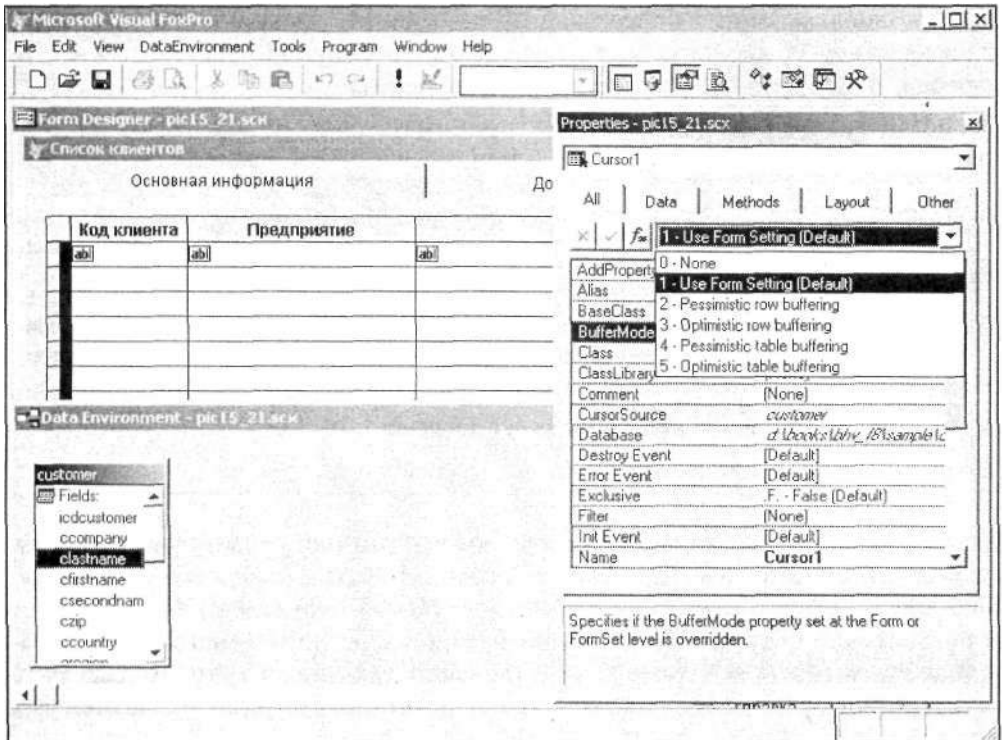
2

3

4

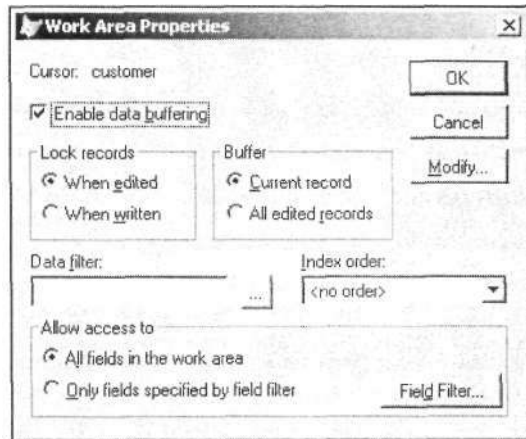
5

CURSORSETPROP (), -
 , :
 CURSORSETPROP(Buffering, ,
 | 1)
 BufferModeOverride CURSORGETPROP().



. 20.3.

BufferModeOverride



. 20.4.

Work Area Properties

(. 20.4), **Work Area Properties ()**
Data Session (), **Properties ()**

FoxPro

FoxPro

TABLEUPDATE(),

.F.

ON ERROR.

ERROR ()

AERROR () .

GETFLDSTATE (),

. 20.6.

20.6.

GETFLDSTATE ()

-
- 1
 - 2
 - 3
 - 4

NULL

. 20.7.

. 20.7.

BEGIN TRANSACTION

ROLLBACK

END TRANSACTION

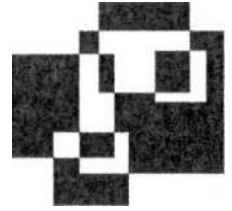
TRANSACTION
ROLLBACK

BEGIN END TRANSACTION

END TRANSACTION.

BEGIN

-
-
-
-
-
-
-
-



,

Visual FoxPro

(OLE).

OLE

OLE

OLE

Visual FoxPro OLE

Visual FoxPro OLE

General ().

OLE

Visual

FoxPro

:

1.

General.

OLE

2.

Browse ()

Browse () (. 21.1),

View ()

Browse ()

Замечание

General () ,
gen. OLE ,
Gen.

Microsoft Visual FoxPro

File Edit View Tools Program Table Window Help

sales

All Data Documents Classes Code Other

Goods

Код товара	Код группы	Наименование товара	Ед.изм.	Цена	Количе	Изображение
2103	1	Компьютер	комплект	15900.00	20	Gen
2104	1	Холодильник "Стинол 102L"	шт	12850.00	23	Gen
2105	1	Холодильник "Атлант МФМ"	шт	10300.00	16	Gen
2106	1	Холодильник DAEWOOD ERF-340M	шт	13500.00	6	Gen
2102	1	Холодильник "Стинол 116L"	шт	13800.00	22	Gen
2101	1	Холодильник "Смоленск"	шт	7970.00	11	Gen
2107	1	Холодильник "Indesit"	шт	9900.00	4	Gen
2108	1	Стиральная машина "Electrolux"	шт	13700.00	32	Gen
2109	1	Газовая плита "Indesit"	шт	6800.00	44	Gen
2110	1	Факс-модем ZyXEL U-1496E+	шт	1300.00	52	Gen
2300	3	Телевизор Toshiba 2140XS	шт	8300.00	36	Gen
2301	3	Телевизор Panasonic 21GF10F	шт	6500.00	53	Gen
2302	3	Видеомагнитофон Toshiba V-212	шт	9000.00	47	Gen
2303	3	Видеокамера Panasonic NV-A3E 9999	шт	6700.00	44	Gen
2304	3	Музыкальный центр Panasonic SC-CH	шт	14500.00	32	Gen
2305	3	Холодильник Bosch KGS 4101 (350 л)	шт	15900.00	36	Gen
2306	3	Стиральная машина Bosch WFB 1070	шт	15600.00	34	Gen
2307	3	Электроплита Bosch 662N	шт	12000.00	31	Gen
2308	3	Микроволновая печь Bosch HMT 812	шт	5700.00	37	Gen
2310	3	Электрочайник Moulinex LT3 (без шну)	шт	1700.00	53	Gen
2326	4	Набор мебели руководителя	комплект	150000.00	12	Gen

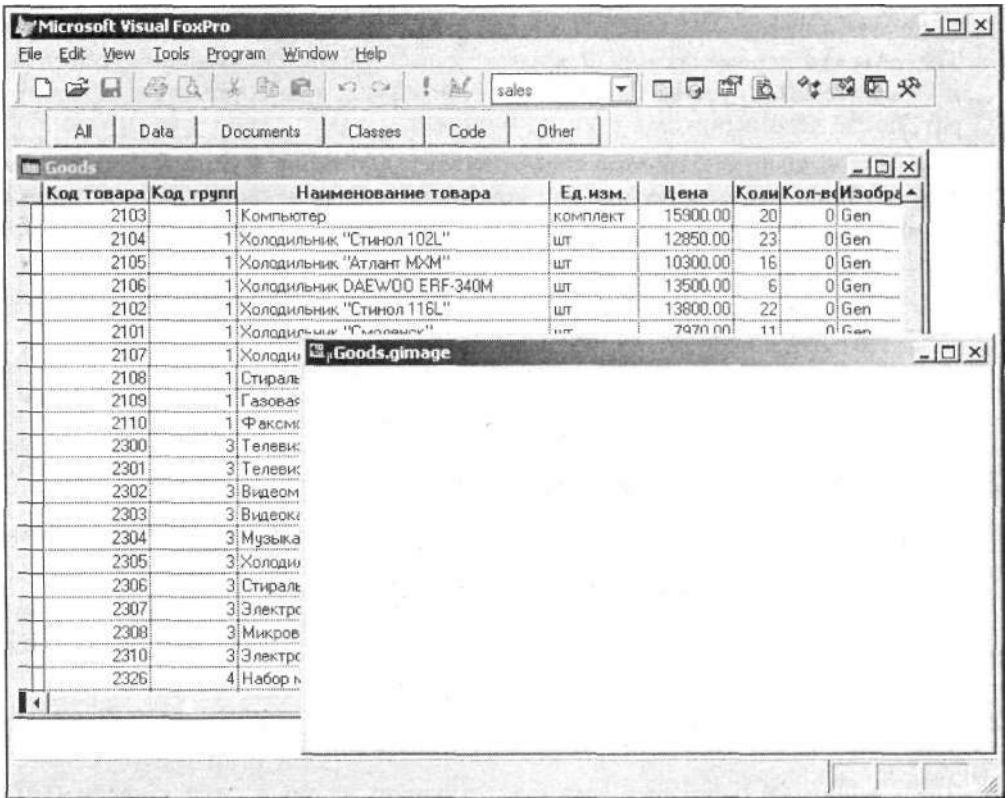
. 21.1. Browse General

3. OLE General (-), gen. (. 21.2).

4. Edit () Insert Object (. 21.3).

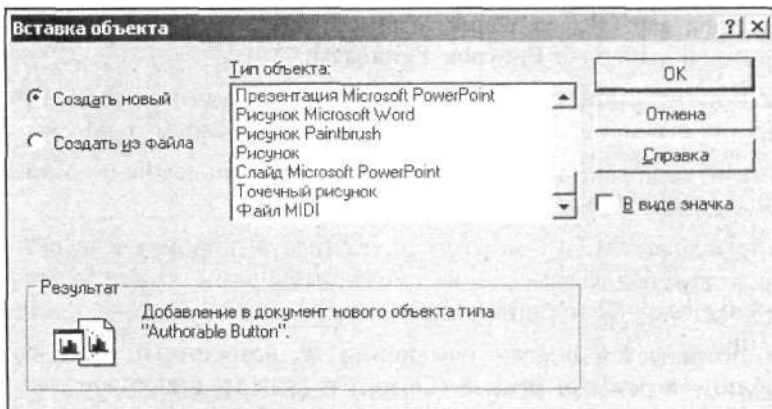
5. OLE : OLE

- — OLE
- ;
- — OLE



. 21.2.

General



. 21.3.

Visual FoxPro.

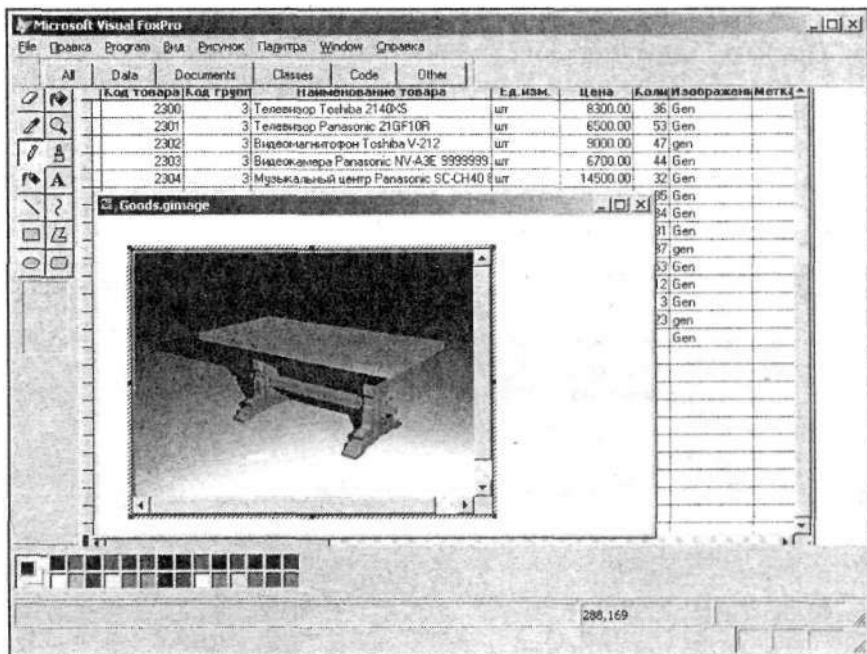
Замечание

Visual FoxPro
General (),

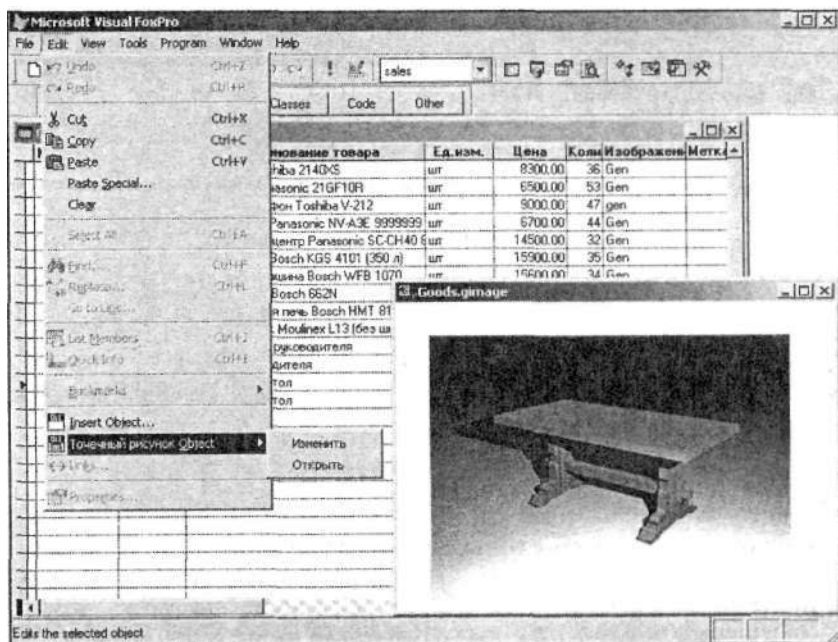
OLE

OLE

1. gImage Goods: Goods Sales.
gImage General (),
2. **View** () **Browse** () **Browse** ()
3. OLE General ()
4. **Insert Object** () **Edit** ().
5. OLE **Paintbrush**.
6. Visual FoxPro
7. OLE (. 21.4).
8. OLE.
General () (. 21.5).
OLE
Browse ()
General
().
Object () **Edit** ().



. 21.4.



. 21.5.

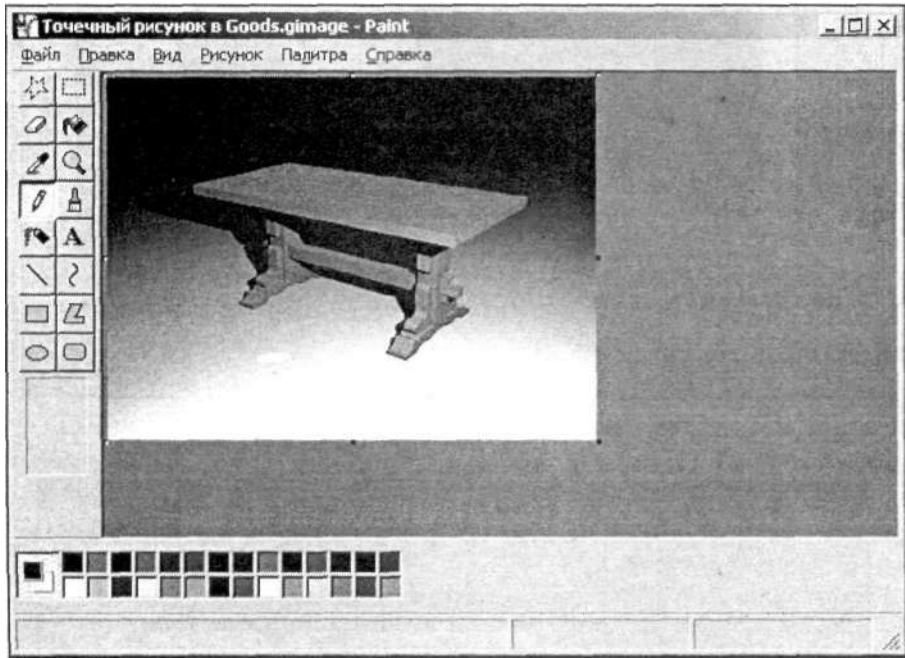
OLE

. 21.5).

Visual FoxPro (. . 21.4).

OLE (. 21.6),
General

()).



. 21.6 .

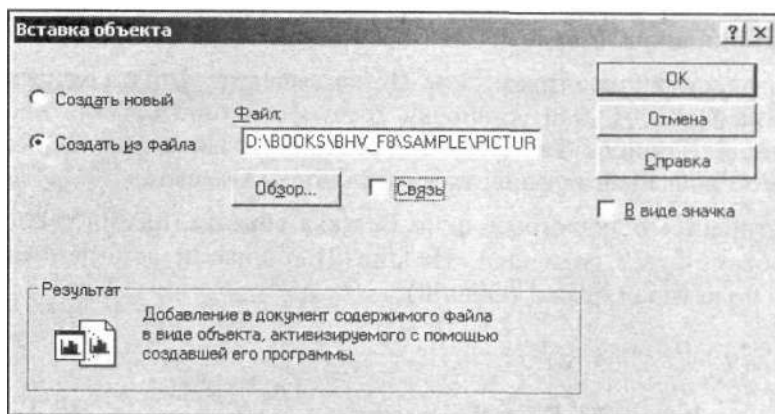
OLE

OLE

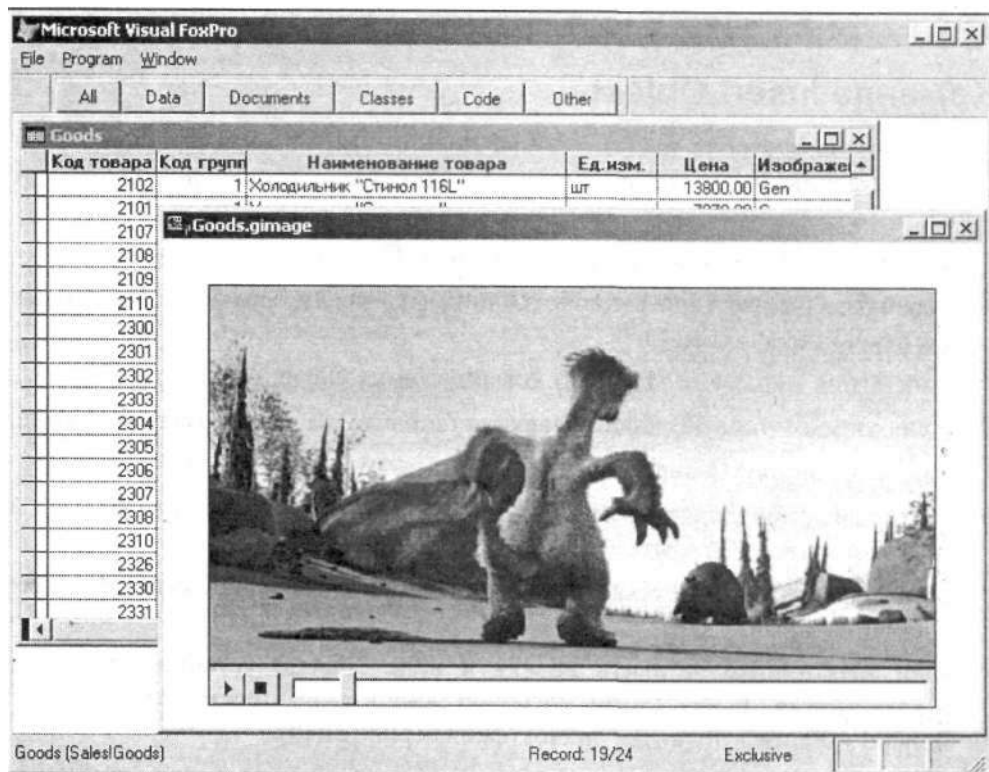
OLE

1. **Browse** ().
2. **General** ()
3. **Edit** () **Insert Object** ().
- 4.

. 21.7.



. 21.7.



. 21.8.

General

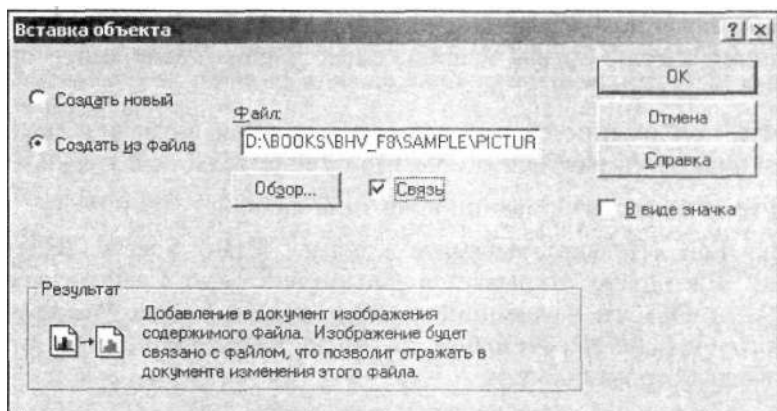
- 5. .
- 6. , -
- 7. , -
- OLE . 21.8 , . -
- General ().

OLE

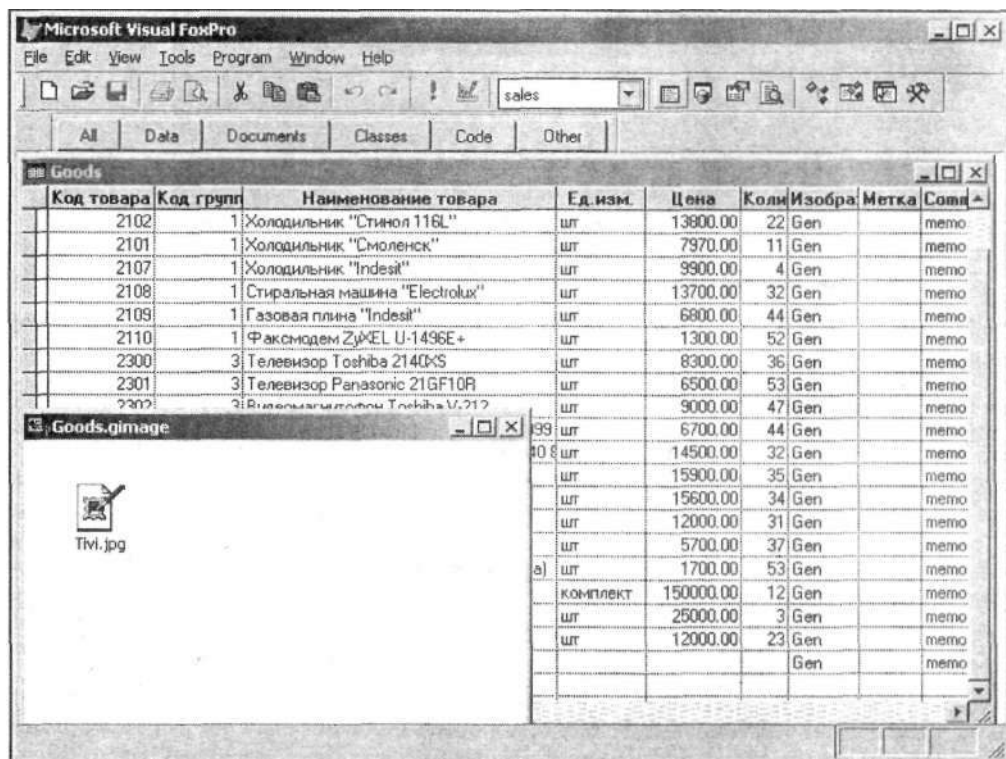
- OLE ,
- Insert Object** () **Paste Special**
- () **Edit** ().

Insert Object

- Visual FoxPro OLE -
- Insert Object** () -
- :
- 1. Goods Browse ().
- 2. General ()
- 3. **Edit** () **Insert Object** ().
- 4. .
- 5. .
- 6. .
- 7. (. 21.9)
- 8. ,
- General () (. 21.10).
- 9. OLE OLE



. 21.9.



. 21.10.

OLE

Paste Special

General () OLE
Paste Special (),

:

1.

Windows.

2.

General ().

3.

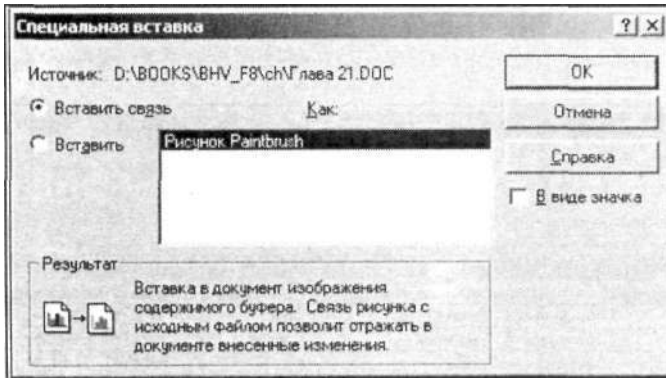
Edit ()

Paste Special (

).

(. 21.11).

Windows,



. 21.11.

4.

5.

General ().

Visual FoxPro,

Visual FoxPro

Visual FoxPro.

6.

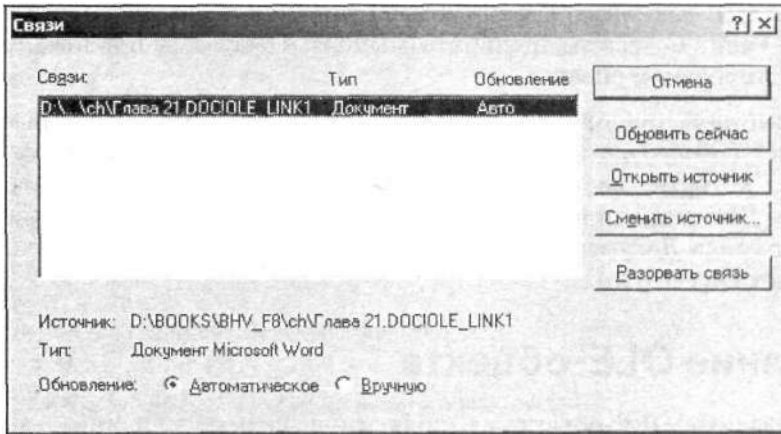
OLE ()

General (),

()

Edit.

General ()
Cut ()
Edit (),
OLE
(. 21.12).
Edit () Links ().



. 21.12.

. 21.1.

21.1.

: , . -
 , .

OLE

OLE OLE
 General (), ,
 Microsoft Excel, Word
 Paint,

Object () **Edit** (),
 (,) General
 Word **Edit** () -
 — **Object** () .

OLE

Clear () OLE **Edit** () General (),

Visual FoxPro OLE -

Замечание

OLE Visual FoxPro
 CREATEOBJECT.

Microsoft Excel

OLE

CntCust

Microsoft Excel OLE .

1. **File** () **New** (),
Program () **New file** (). -

2. Microsoft Excel, -

* OLE

```
objExcelSheet=CreateObject("Excel.Sheet")
```

```
objExcelSheet.Application.Visible=.T.
```

```
objExcelSheet = objExcelSheet.Sheets[1]
```

```
* CntCust Excel
```

```
SELECT CNTCUST
```

```
nROW=0
```

```
SCAN
```

```
nRow=nRow+1
```

```
objExcelSheet.Cells(nRow,1).Value= CntCust.
```

```
objExcelSheet.Cells(nRow,2).Value=CntCust.
```

```
ENDSCAN
```

```
objChart = objExcelSheet.ChartObjects.Add(100, 100, 400, 200)
```

*

```
objExcelSheet.chartObjects(1).Chart.;
```

```
chartwizard(objExcelSheet.Range(objExcelSheet.Cells(1,1)),;
```

```
objExcelSheet.Cells(nRow,2)),;
```

```
4100,4,1,0,1,1,"","","")
```

*

Windows

```
objExcelSheet.ChartObjects(1).Select
```

```
objExcelSheet.ChartObjects(1).Copy
```

*

```
objExcelSheet.application.quit
```

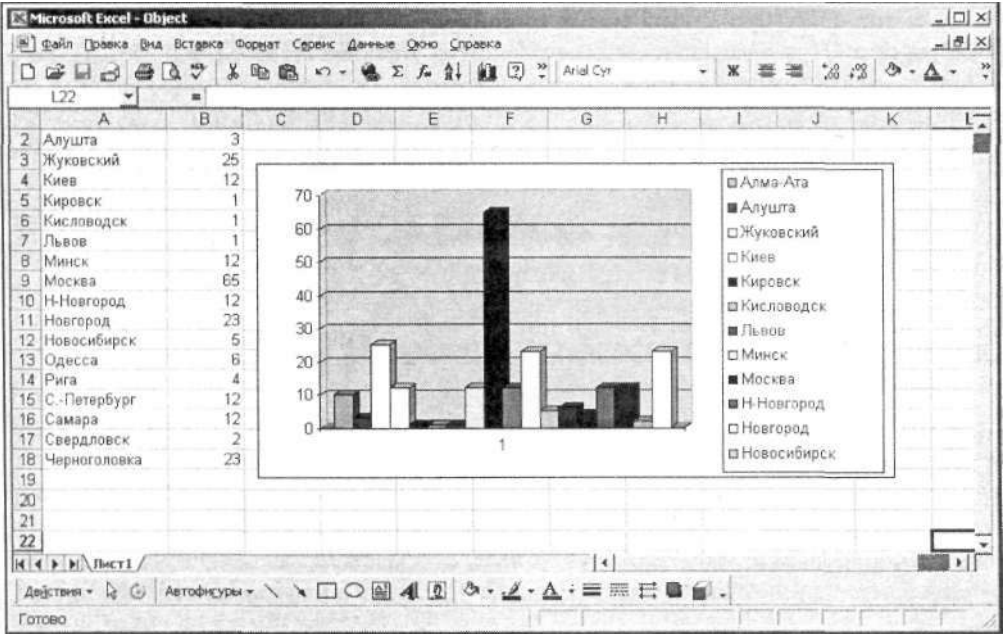
```
release objExcelSheet
```

3. . 21.13.

Замечание

OLE

Visual FoxPro.

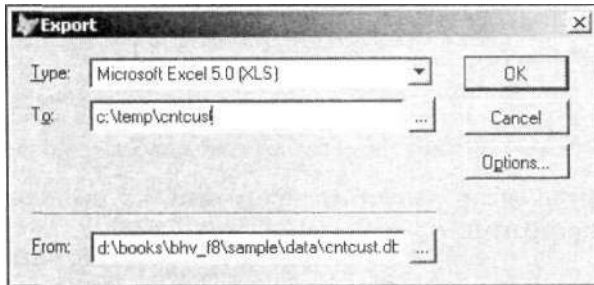


. 21.13.

OLE

Visual FoxPro

Export () Import () File
 (), Visual FoxPro
 -
 -



. 21.14.

Export

() Visual FoxPro Export
 File () Export ()

(. 21.14),

()

. 21.2.

21.2.

Visual FoxPro 3.0 (DBF)					
FoxPro Windows 2.x (DBF)	FOX2X		FoxPro Windows 2.x		
FoxBASE+ (DBF)	FOXPLUS		FoxBASE+		
dBASE IV (DBF)			dBASE IV		
Delimited Text					-
Microsoft Excel 5.0 (XLS)	XL5		Microsoft Excel 5.0		
Microsoft Excel 2.0, 3.0, and 4.0 (XLS)	XLS		Microsoft 2.0, 3.0 4.0		
Lotus 1 2 3 2.x (WK1)	WK1		Lotus 1 2 3 2.x		
Lotus 1 2 3 1 A (WKS)	WKS		Lotus 1 2 3 1		
Symphony 1.10 (WR1)	WR1		Symphony 1.10		
Symphony 1.01 (WRK)	WRK		Symphony 1.01		
MultiPlan4.01 (MOD)	MOD		MultiPlan 4.01		
Data Interchange Format (DIF)	DIF		VisiCalc		-
System Data Format (SDF)	SDF				
Symbolic Link Format	SYLK				-
					MultiPlan

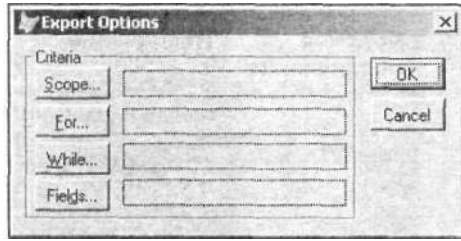
From ()**Export ()**

() —

Options (),

Export Options () (. 21.15).

Scope (), **For** (), **While** ().

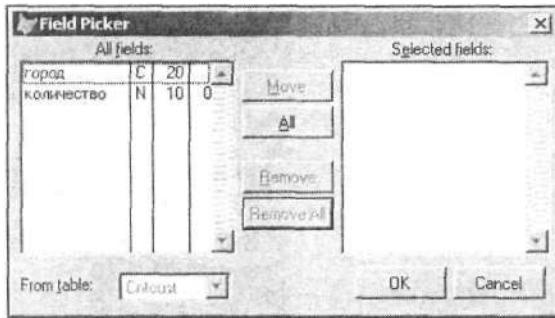


. 21.15. **Export Options**

Fields ()

Field

Picker (),
(. 21.16).



. 21.16. **Field Picker**

Visual FoxPro.

1.

Tools ()
().

Wizards (),

Visual FoxPro,

Import

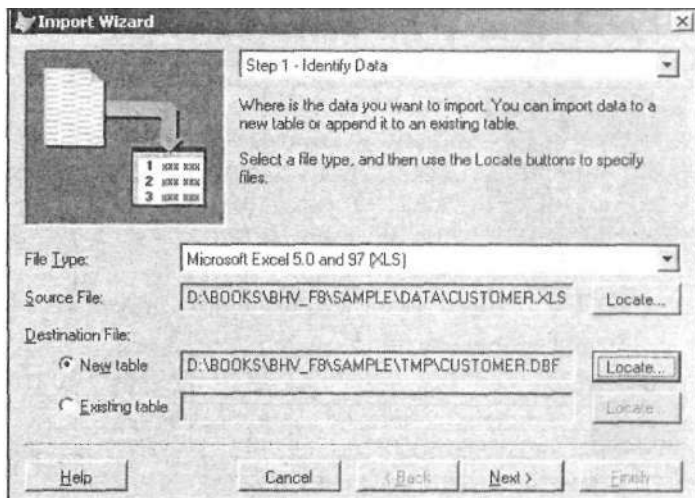
СОВЕТ

Import () **File** ().

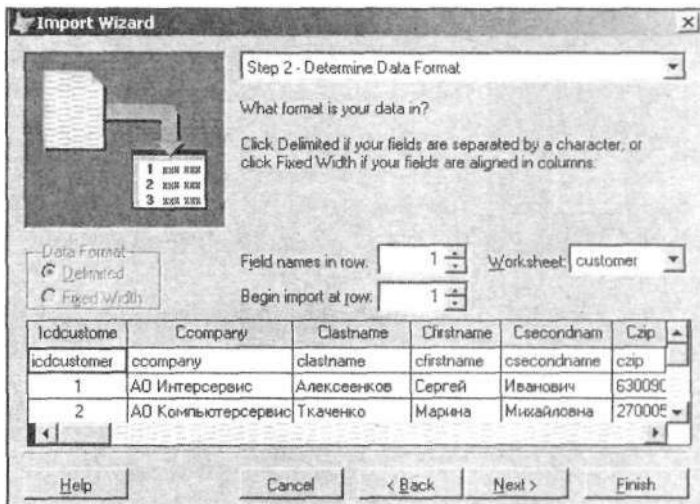
Wizard () **Import** (),

Import

2. (. 21.17) - File Type (Source File () Locate () Next ()).



. 21.17.



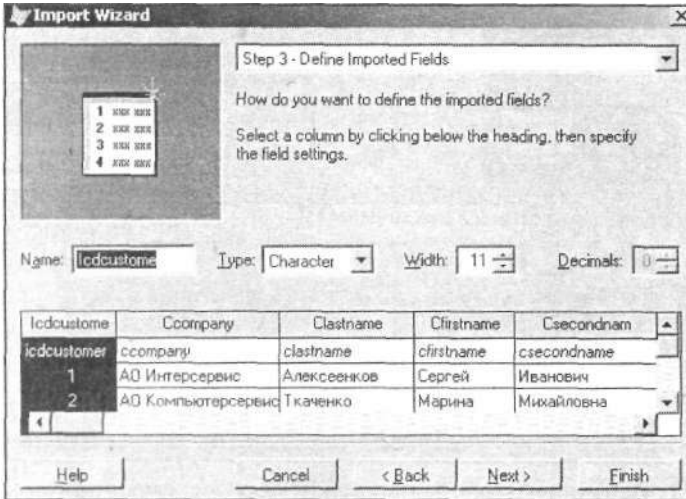
. 21.18.

3.

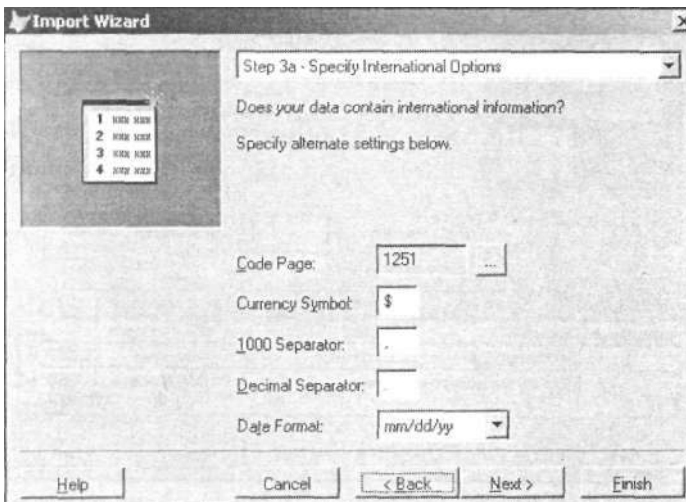
4.

(. 21.18),

(. 21.19).



. 21.19.



. 21.20.

5. , (. 21.20).

6. **Finish** (),
Visual FoxPro.

Visual FoxPro

Microsoft Word

Visual FoxPro,
Windows, Microsoft Word

customer.

Visual FoxPro Microsoft Word

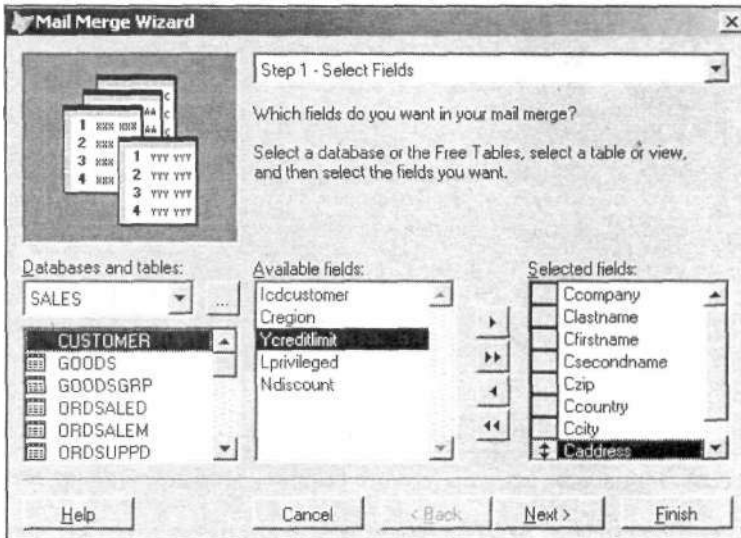
Tools ()

Wizards ()

— **Mail Merge** ()

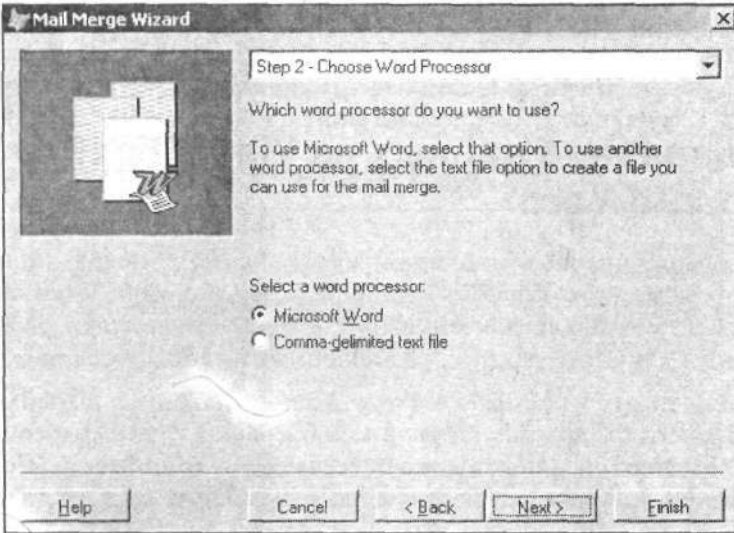
1. (. 21.21).

Selected fields () **Next** ().

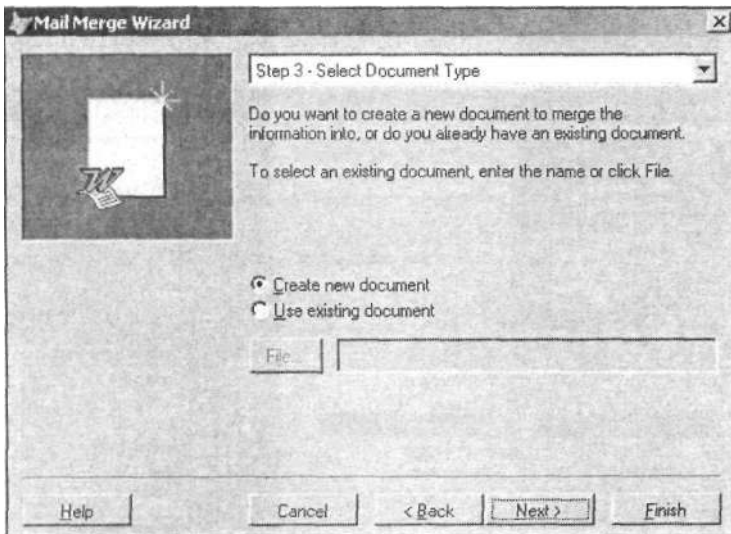


. 21.21.

2. Microsoft Word.
 Next () (. 21.22).



. 21.22.



. 21.23.

3. (. 21.23). Use existing

document () File
(), Open ()

4.

(. 21.24), Select a document type
() . 21.3 Select
a document type ()

21.3.

Select a document type

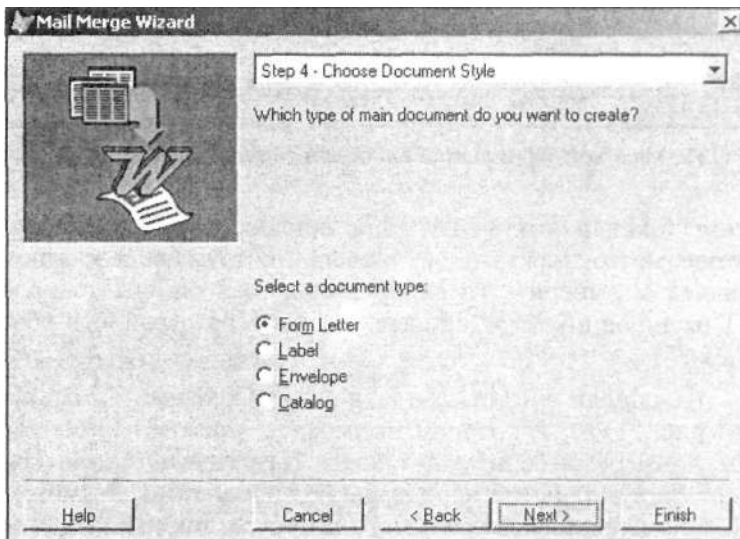
Form Letter

Label

Envelope

Catalog

Next ()



. 21.24.

5.

ODBC,

Finish ().

Microsoft Word

Word,



. 21.25. Microsoft Word

6.

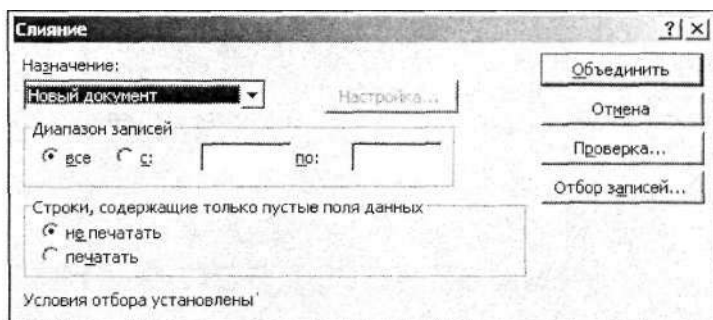
(. 21.25).

7.

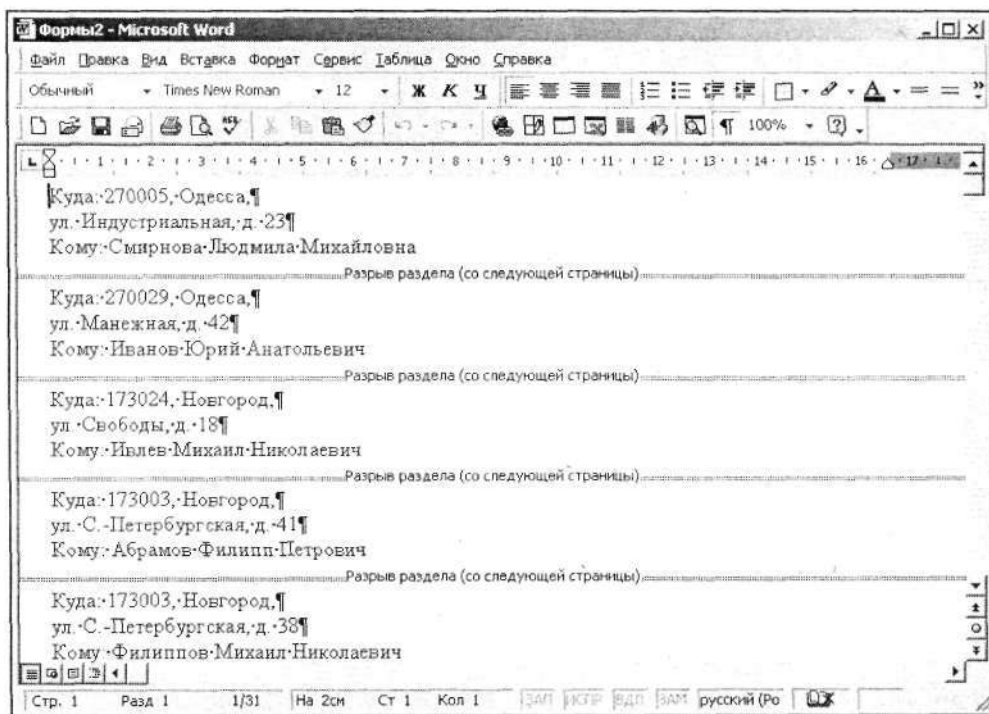
(. 21.26),

Visual FoxPro

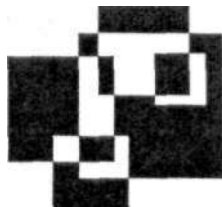
. 21.27.



. 21.26.



. 21.27.



Microsoft Excel, Visual FoxPro, Paradox
 SQL Server.
 Visual FoxPro.
 (ODBC).
 ODBC,

ODBC

ODBC
 ODBC.
 ODBC :

1. Windows

(ODBC).



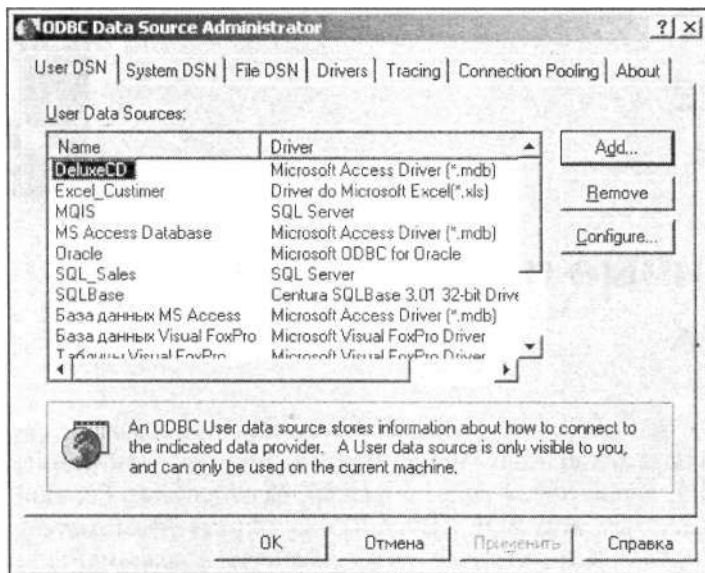
ODBC Data Source Administrator

(ODBC) (. 22.1)

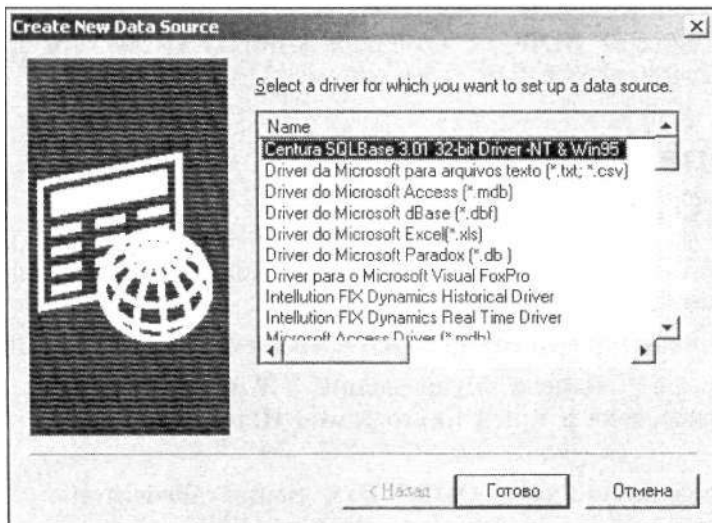
Add ().

3. **Create New Data Source** () (. 22.2).

4. (. 22.3)



. 22.1. ODBC Data Source Administrator

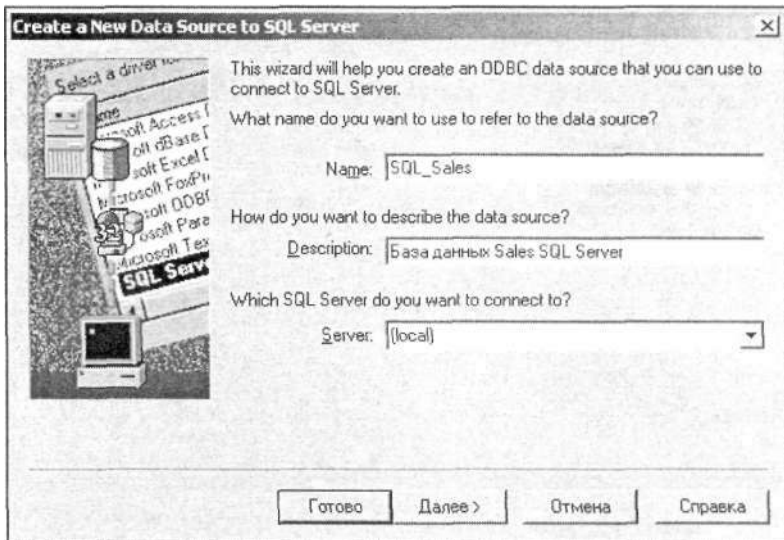


. 22.2. Create New Data Source

Замечание

Name ()

Description (



. 22.3.

Visual FoxPro

:

Databases ()

Connections () (. 22.4),

New

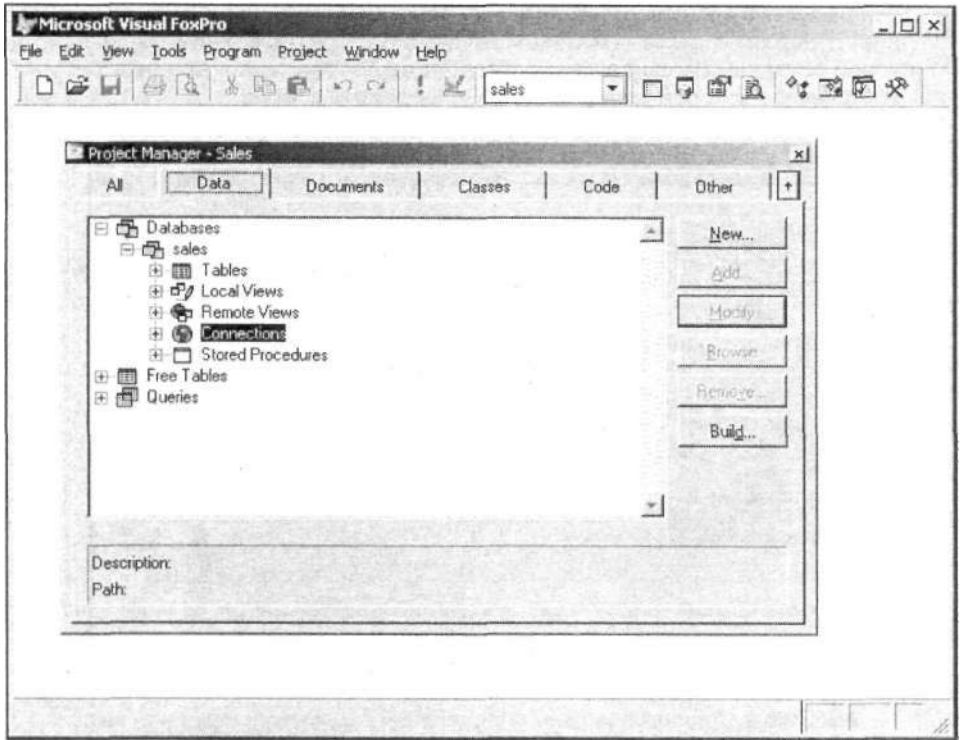
(),

;

CREATE CONNECTION,

;

CREATE CONNECTION ()



. 22.4. Connections Database

(. 22.5)

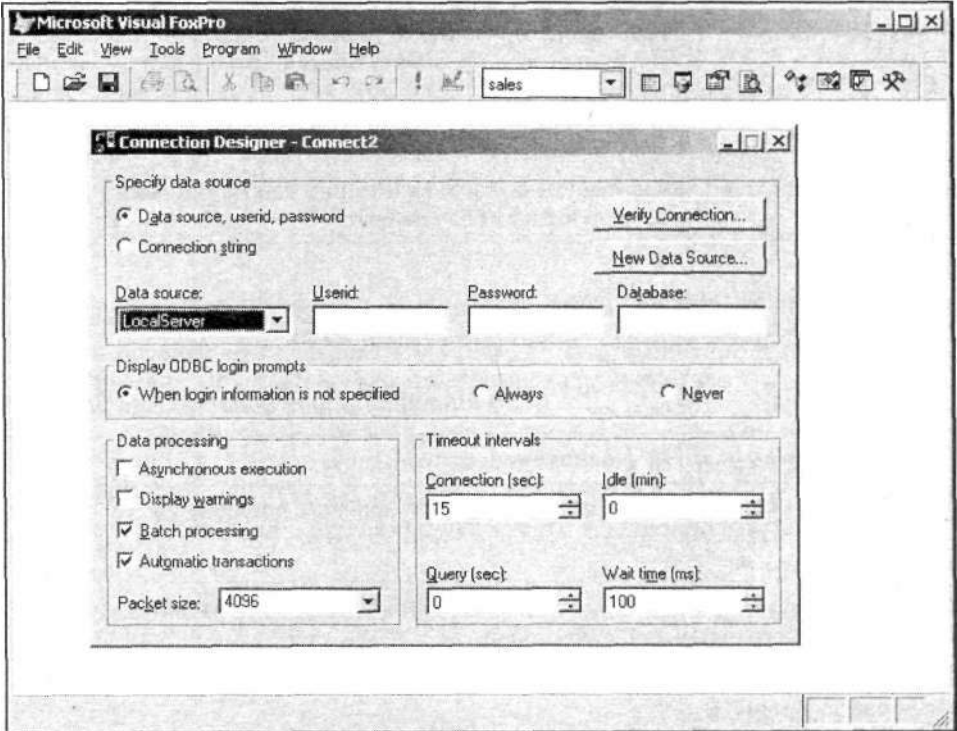
Specify data source ()
 Data source, userid, password (,) -
 ,) Connection string (), -
 (. 22.1).

22.1. Specify data source

Data source () ODBC -
userid ()

Password ()

Database ()



. 22.5.

Connection string ()

Connect string

(),

Verify Connection ()

New Data

Source ()

Display ODBC login prompts ()

ODBC

Data Source Login () (. 22.2).

22.2.

Display ODBC login prompts

When login info is not specified ()	Data Source Login (,)	-
Always ()	Visual FoxPro Data Source Login (,)	- - -
Never ()	Visual FoxPro	-
Data processing () (. 22.3).		

22.3.

Data processing

Asynchronous execution ()	-
Display warnings ()	-
Batch processing ()	-
Automatic transactions ()	-
Packet size ()	-

Замечание

Data processing (DBSETPROP().)

Timeout intervals () (. 22.4).

Connection (sec)

()

Query (sec) (-

)

Idle (min) (-

)

Wait time (ms)

()

Visual FoxPro
SQL

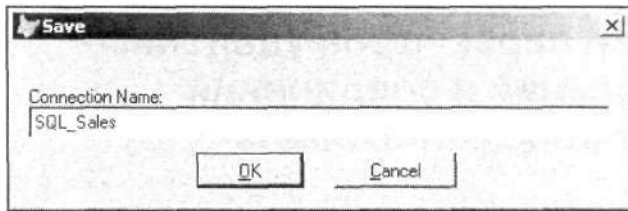
Замечание

Data processing (DBSETPROP().

Connect 1.

Save

() (. 22.6),



. 22.6.

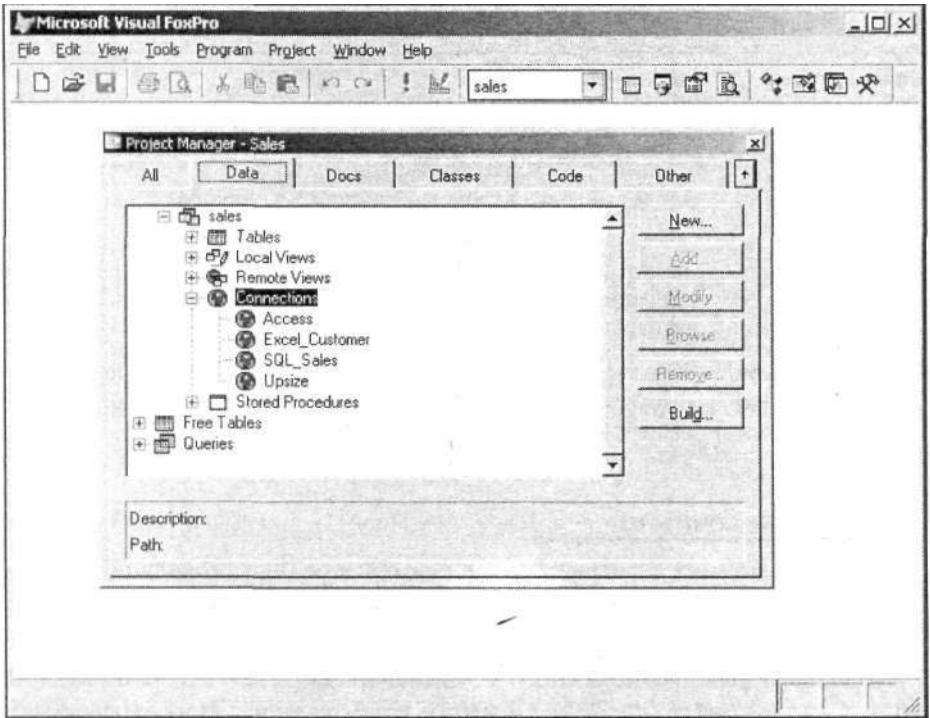
Connections ()

Database ().

. 22.7

Access, Microsoft SQL Server Microsoft Excel.

Modify ().



. 22.7.

Options

Remote Data () (. 22.8).

Options () (. 22.5),

Remote view defaults ()

:

22.5.

Share connection ()

Fetch memo (Memo)

SQL updates: Criteria
(SQL)

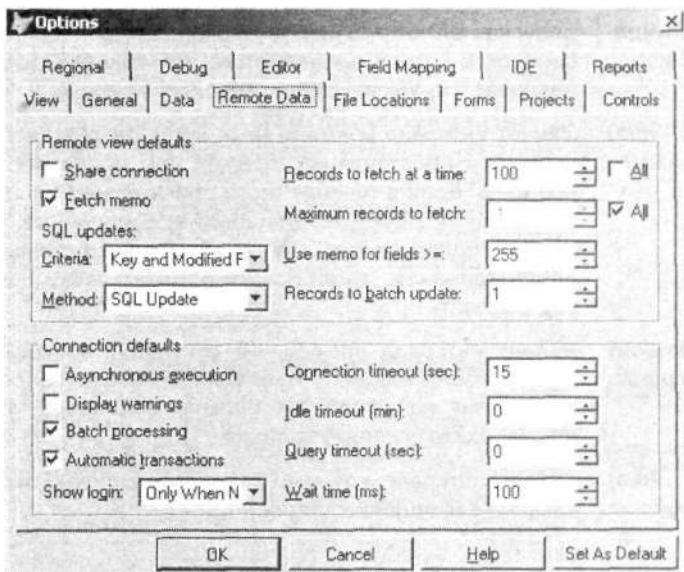
SQL updates: Method
(SQL)

Records to fetch at a time
()

Maximum records to fetch
()

Use memo for fields (Memo)
>=

Records to batch update
()



Connection defaults (. 22.6) :

22.6.

Asynchronous execution (-)

Display warnings (-)

Batch processing (-) , Visual FoxPro SQLEXEC () ,

Automatic transactions ()

Show login (-) , -

Connection time-out (sec) (-) , Visual FoxPro

Idle timeout (min) (-) , Visual FoxPro

Query timeout (sec) (-) , Visual FoxPro

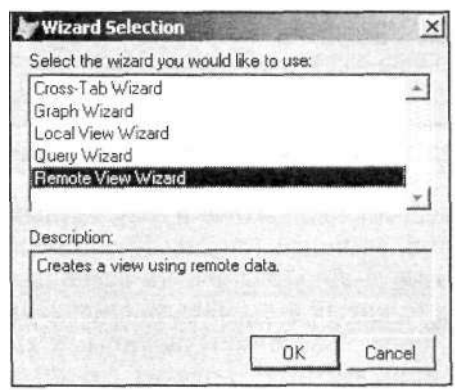
Wait time (ms) (-)

- **Remote Views** (**Databases** (**New** (**CREATE SQL VIEW** **REMOTE / CONNECTION.**)) ;)

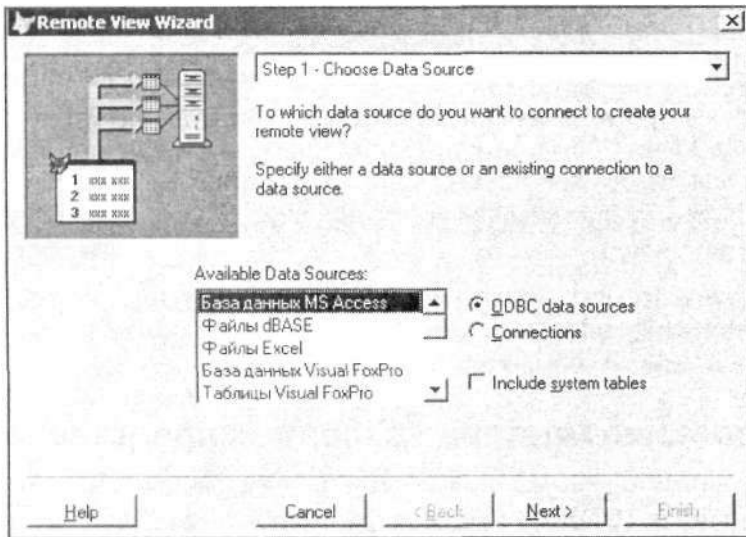
Microsoft SQL Sewer. Microsoft Excel

(ODBC).

Wizards (**Tools** (**Query** (**Wizard Selection** (**Remote View Wizard** (. 22.9).))))

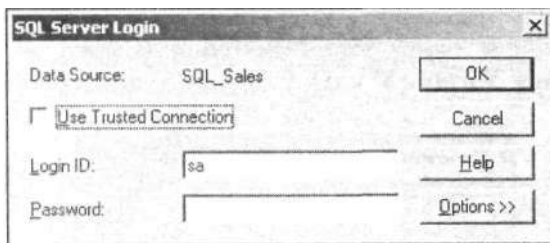


(. 22.10).



. 22.10.

(. 22.11).

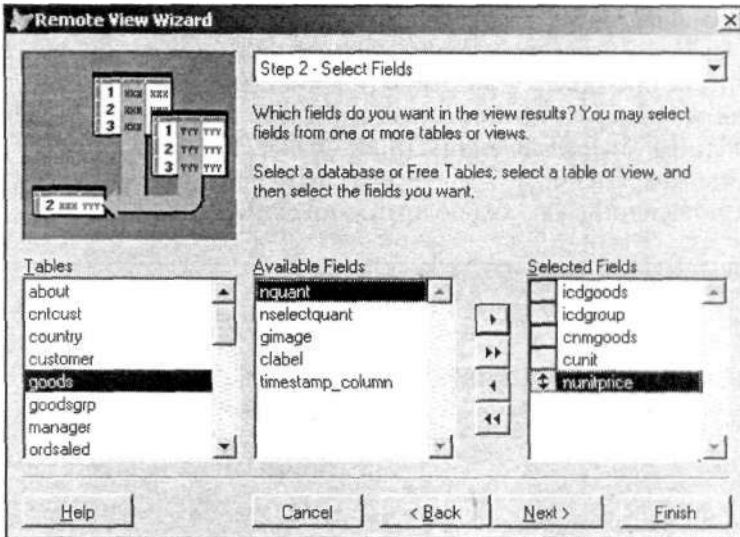


. 22.11.

(. 22.12),

Selected Fields

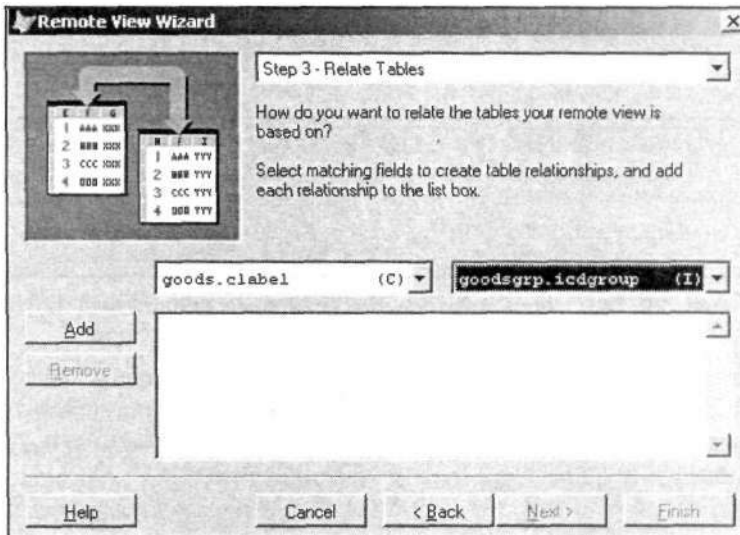
(),



. 22.12.

(. 22.13).

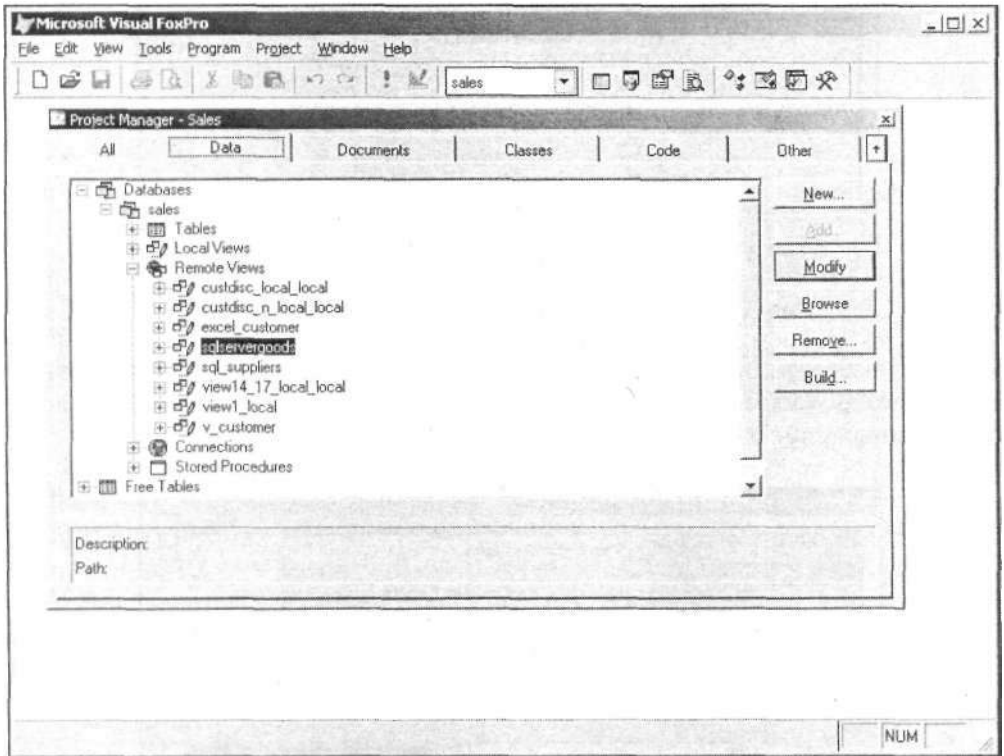
Add ().



. 22.13.

Remote

Views () (. 22.14).



. 22.14.

Remote Views ()
Browse (). . 22.15

Замечание

Microsoft Visual FoxPro

File Edit View Tools Program Window Help

sales

All Data Documents Classes Code Other

Sqlservergoods

lcdgoods	lcdgroup	Cnmgoods	Cunit	Nunitprice	lcdgroup1
2303	3	Видеокамера Panasonic NV-A3E 9999999		697.00	3
2302	3	Видеомагнитофон Toshiba V-212		255.00	3
2109	1	Газовая плита "Indesit"		6800.00	1
2331	2	Журнальный стол	шт	1200000.00	2
2330	4	Кресло руководителя	шт	2500000.00	4
2308	3	Микроволновая печь Bosch HMT 812A		293.00	3
2304	3	Музыкальный центр Panasonic SC-CH40 8888		438.00	3
2326	4	Набор мебели руководителя	комплект	15000000.00	4
2108	1	Стиральная машина "Electrolux"		13700.00	1
2306	3	Стиральная машина Bosch WFB 1070		469.00	3
2301	3	Телевизор Panasonic 21GF10R		619.00	3
2300	3	Телевизор Toshiba 2140KS		369.00	3
2110	1	Факс-модем ZyXEL U-1496E+		435.00	1
2305	3	Холодильник Bosch KGS 4101 (350 л)		939.00	3
2107	1	Холодильник "Indesit"	комплект	7900.00	1
2105	1	Холодильник "Атлант МХМ"	комплект	1030.00	1
2101	1	Холодильник "Смоленск"	комплект	1970.00	1
2104	1	Холодильник "Стинол 102L"	комплект	6850.00	1
2103	1	Холодильник "Стинол 110L"	комплект	5900.00	1
2102	1	Холодильник "Стинол 116L"	комплект	4820.00	1
2106	1	Холодильник DAEWOO ERF-340M	комплект	13500.00	1
2307	3	Электроплита Bosch 662N		1469.00	3
2310	3	Электрочайник Moulinex LT3 (без шнура)		42.00	3

NUM

. 22.15.

Databases ()

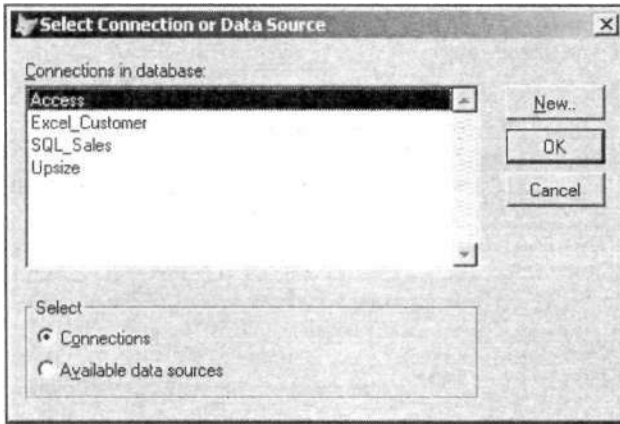
Remote Views (),

New ().

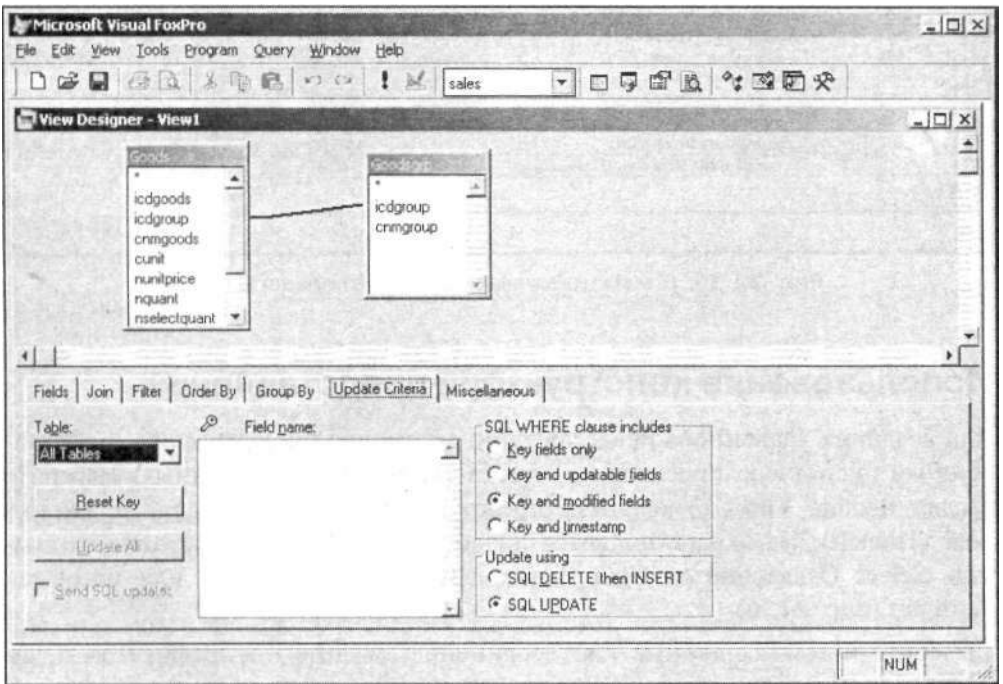
Select Connection or Data Source () (. 22.16).

(. 22.17).

Update Criteria (),



. 22.16. Select Connection or Data Source



. 22.17.

Table () ,
 Update Criteria () .
 Send SQL updates () ,
 SQL ()

SQL WHERE clause includes (
WHERE)
 WHERE (. 22.7).

22.7.

SQL WHERE clause includes

Key fields only (, **WHERE,**
) , **'** , **'** -
Field name (**)** , **'** , **'** -
Key and updateable , **WHERE,**
fields (**)** , **'** , **'** -
Field name (**),** , **'** , **'** -
Key and modified , **WHERE,**
fields (**)** , **'** , **'** -
Field name (**),** , **'** , **'** -
Key and timestamp , **WHERE,**
(**)** , **'** , **'** -
Field name (**),** , **'** , **'** -

Update using (**)**
(**. 22.8).**

22.8.

Update using

SQL DELETE then
INSERT

SQL UPDATE

CREATE SQL VIEW

CREATE SQL VIEW, :

CREATE SQL VIEW [] [REMOTE]
 [CONNECTION
 [CONNECTION]

REMOTE.

CONNECTION.

SQL

SQL SELECT,

Goods,

Microsoft SQL Server

SQLServer,

OPEN DATABASE SALES

CREATE SQL VIEW SQLServerGoods

CONNECTION SQLServer

AS SELECT * FROM GOODS

Microsoft Excel

ODBC

Microsoft Excel

Visual FoxPro

cel.

Microsoft Ex-
Visual FoxPro

Memo (. 22.18).

ODBC

255

Visual FoxPro

254

Memo

Memo

REPLACE ALL sqlchar WITH TRIM(sqlmemo)

Замечание

TABLEUPDATE

Microsoft Visual FoxPro

File Edit View Format Tools Program Window Help

sales

Excel_customer

Icdcustomer	Ccompany	Clastname	Cfirstname	Csecondname	Czip	Ccountry	Cregion	Ccity	Caddress	Ycreditlimit
1.00	Memo	Memo	Memo	Memo	Memo	Memo	memo	Memo	Memo	4.00
2.00	Memo	Memo	Memo	Memo	Memo	Memo	memo	Memo	Memo	200000.00
3.00	Memo	Memo	Memo	Memo	Memo	Memo	memo	Memo	Memo	100000.00
4.00	Memo	Memo	Memo	Memo	Memo	Memo	memo	Memo	Memo	
5.00	Memo	Memo	Memo	Memo	Memo	Memo	memo	Memo	Memo	
6.00	Memo	Memo	Memo	Memo	Memo	Memo	memo	Memo	Memo	
7.00	Memo	Memo	Memo	Memo	Memo	Memo	memo	Memo	Memo	
8.00	Memo	Memo	Memo	Memo	Memo	Memo	memo	Memo	Memo	
9.00	Memo	Memo	Memo	Memo	Memo	Memo	memo	Memo	Memo	
10.00	Memo	Memo	Memo	Memo	Memo	Memo	memo	Memo	Memo	
11.00	Memo	Memo	Memo	Memo	Memo	Memo	memo	Memo	Memo	200000.00
12.00	Memo	Memo	Memo	Memo	Memo	Memo	memo	Memo	Memo	50000.00
13.00	Memo	Memo	Memo	Memo	Memo	Memo	memo	Memo	Memo	200000.00
14.00	Memo	Memo	Memo	Memo	Memo	Memo	memo	Memo	Memo	100000.00
15.00	Memo	Memo	Memo	Memo	Memo	Memo	memo	Memo	Memo	200000.00
16.00	Memo	Memo	Memo	Memo	Memo	Memo	memo	Memo	Memo	800000.00
17.00	Memo	Memo	Memo	Memo	Memo	Memo	memo	Memo	Memo	25000.00
18.00	Memo	Memo	Memo	Memo	Memo	Memo	memo	Memo	Memo	300000.00
19.00	Memo	Memo	Memo	Memo	Memo	Memo	memo	Memo	Memo	250000.00
20.00	Memo	Memo	Memo	Memo	Memo	Memo	memo	Memo	Memo	140000.00
21.00	Memo	Memo	Memo	Memo	Memo	Memo	memo	Memo	Memo	300000.00
22.00	Memo	Memo	Memo	Memo	Memo	Memo	memo	Memo	Memo	20000.00

Excel_customer.ccompany
АО Интерсервис

NUM

. 22.18.

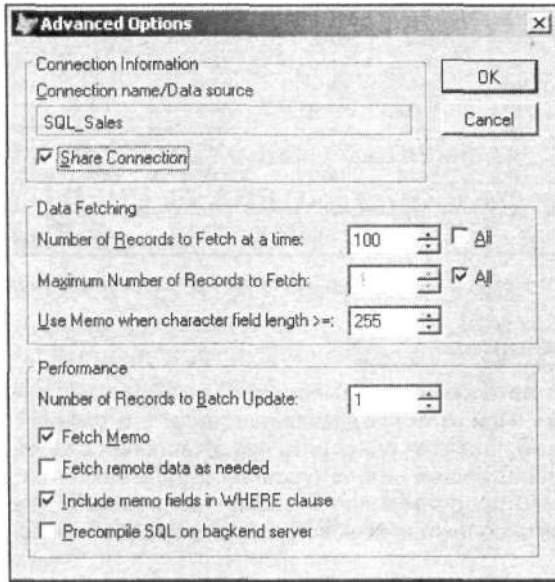
Microsoft Excel

Замечание

Visual FoxPro

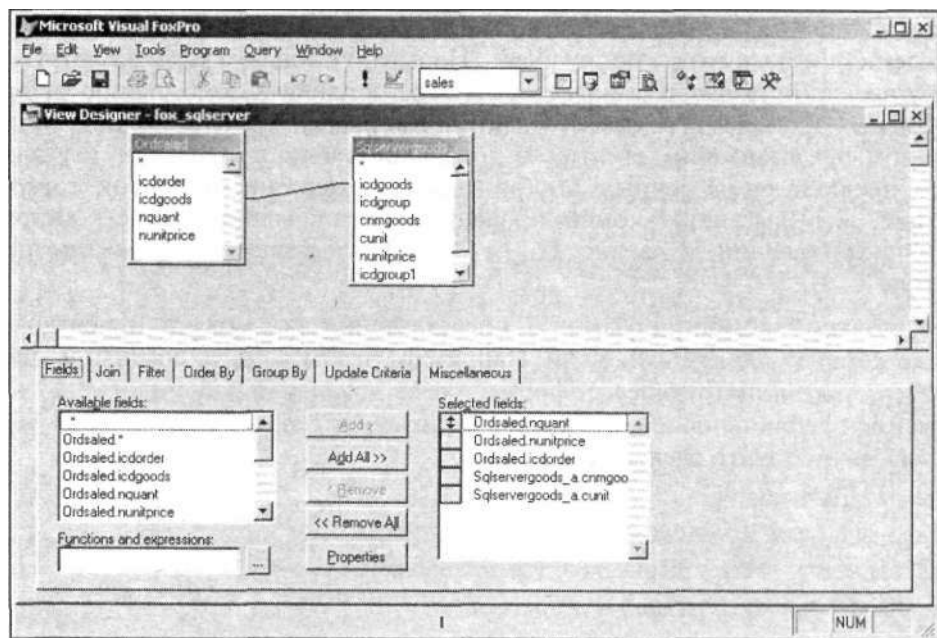
TABLEUPDATE

- Tools () Options ()
 () Remote Data (),
 Share Connection (),
 Remote View Defaults (),
- Query ()
 Advanced Options ()
 Advanced Options ()
 Share Connection () (. 22.19).
- CREATE SQL VIEW SHARE.



. 22.19.

Advanced Options



. 22.20.

Visual FoxPro Microsoft SQL

The screenshot shows a data table in Microsoft Visual FoxPro. The table has five columns: Nquant, Nunitprice, Icdorder, Cnmgoods, and Cunit. The data is as follows:

Nquant	Nunitprice	Icdorder	Cnmgoods	Cunit
6	369.00	69	Телевизор Toshiba 2140KS	
6	619.00	68	Телевизор Panasonic 21GF10R	
6	820.00	4	Холодильник "Стинол 102L"	КОМПЛЕКТ
7	939.00	69	Холодильник Bosch KGS 4101 (350 л)	
7	1350.00	2	Холодильник DAEWOOD ERF-340M	КОМПЛЕКТ
8	255.00	68	Видеомагнитофон Toshiba V-212	
8	469.00	69	Стиральная машина Bosch WFB 1070	
8	619.00	69	Телевизор Panasonic 21GF10R	
9	735.00	68	Холодильник "Стинол 110L"	КОМПЛЕКТ
9	1350.00	68	Холодильник DAEWOOD ERF-340M	КОМПЛЕКТ
9	2176.00	68	Газовая плита "Indesit"	
10	255.00	69	Видеомагнитофон Toshiba V-212	
10	1070.00	3	Холодильник "Indesit"	КОМПЛЕКТ
10	1469.00	69	Электроплита Bosch 662N	
11	389.00	69	Стиральная машина "Electrolux"	
11	1070.00	68	Холодильник "Indesit"	КОМПЛЕКТ
12	42.00	69	Электрочайник Moulinex L13 (без шнура)	
12	435.00	3	Факс-модем ZyXEL U-1496E+	
12	1030.00	68	Холодильник "Атлант МХМ"	КОМПЛЕКТ
13	435.00	68	Факс-модем ZyXEL U-1496E+	
14	1350.00	4	Холодильник DAEWOOD ERF-340M	КОМПЛЕКТ
16	435.00	69	Факс-модем ZyXEL U-1496E+	
19	369.00	68	Телевизор Toshiba 2140KS	

. 22.21.

Local Views (

New (),

Ordsaled

Microsoft SQL,

. 22.20

. 22.21 —

CREATE SQL VIEW.

Ordsalem
SQL-

Customer (

Server), :

OPEN DATABASE SALES

CREATE SQL VIEW localORDSALEM_remoteCUSTOMER;

AS SELECT * FROM SQLSERVERCUSTOMER, ORDSALEM

WHERE SQLSERVERCUSTOMER.iCdCustomer =

ORDSALEM. iCdCustomer

- ;
- ;
- , ;
- .

Fields ()

Prop-

erties ().

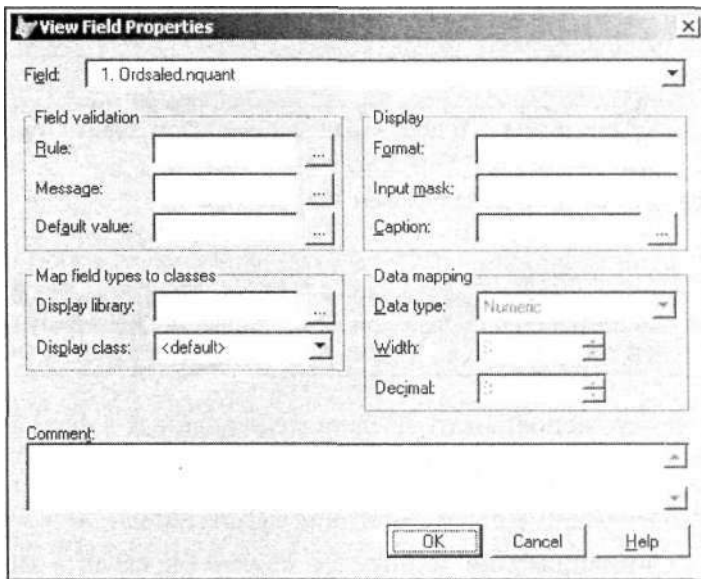
View Field Properties (

) (. 22.22).

Field ()

Field validation ()

(. 22.9).



. 22.22.

22.9. *Field validation*

Rule ()

Message ()

Default value ()

:

- ;
- ;
- .

Visual FoxPro

Display ()

(. 22.10).

Format

()

Browse,

Input mask

(-
)

Caption

()

128

Map field type to classes ()

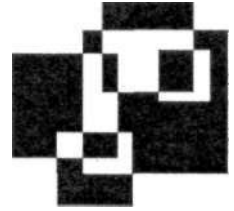
mapping ().

Comment ()

Data

Замечание

DBSETPROP ().



Visual FoxPro



Visual FoxPro, -

/ . , -

SQL Server, ,

Visual

FoxPro. :

- ;
- ;
- — .



; -
-
-

Visual FoxPro SQL Server.

SQL Server

Visual FoxPro SQL

Server, , -

Server Visual FoxPro (. 23.1): SQL

23.1.

	Visual FoxPro	SQL Server
	Character	char
Y	Currency	money
D	Date	datetime
	DateTime	datetime
	Double	float
F	Float	float
G	General	image
I	Integer	int
L	Logical	bit
	Memo	text
(binary)	Memo binary	image
(binary)	Character binary	binary
N	Numeric	float

Visual FoxPro**SQL Server**

Visual FoxPro Transact SQL
 Visual FoxPro SQL Server.
 Visual FoxPro,
 ,
 ,
 SQL, . 23.2.
 Transact

23.2.

Visual FoxPro SQL Server

Visual FoxPro	SQL Server
(. .)	1
(.F.)	0

Visual FoxPro	SQL Server
#	<>
.AND.	AND
.NOT.	NOT
.NULL.	NULL
.OR.	OR
= <	< =
= >	> =
ASCO	ASCII()
AT()	CHARINDEX()
CDOW()	DATENAME(dw, ...)
CHR()	CHAR()
CMONTH()	DATENAME(mm, ...)
CTOD()	CONVERT(datetime, ...)
CTOT()	CONVERT(datetime, ...)
DATE()	GETDATE()
DATETIME()	GETDATE()
DAY()	DATEPART(dd, ...)
DOWO	DATEPART(dw, ...)
DTOC()	CONVERT(varchar, ...)
DTOR()	RADIANS()
DTOT()	CONVERT(datetime, ...)
HOUR()	DATEPART(hh, ...)
LIKE()	PATINDEX()
MINUTE()	DATEPART(mi, ...)
MONTH()	DATEPART(mm, ...)
MTON()	CONVERT(money, ...)
NTOM()	CONVERT(float, ...)
RTOD()	DEGREES()
SUBSTR()	SUBSTRING()
TTOC()	CONVERT(char, ...)
TTOD()	CONVERT(datetime, ...)
YEAR()	DATEPARTfyy, ...)

Server. Visual FoxPro, SQL

CEILING()	LOG()	LOWER()
LTRIM()	RIGHT()	RTRIM()
SOUNDEX()	SPACE()	STR()
STUFF()	UPPER()	

SQL Server Visual FoxPro . 23.3
 SQL Server. Visual FoxPro

23.3. *Visual FoxPro
SQL Server*

Visual FoxPro	SQL Server
----------------------	-------------------

SQL Server. Visual FoxPro -
 " - " , -

Замечание

SQL Server -
 Visual FoxPro -
 ;

. 23.4 , Visual FoxPro SQL Server:

23.4.

Visual FoxPro	SQL Server
---------------	------------

23.4 ()

Visual FoxPro	SQL Server
	SQL Server, UPDATE INSERT
	SQL Server, UPDATE INSERT
(, -)	Update, Insert Delete

23.5 , .
() Visual FoxPro -
23.5. ,

FoxPro	Visual
UPDATE	(
INSERT	((
DELETE ()	

ODBC

ODBC

-

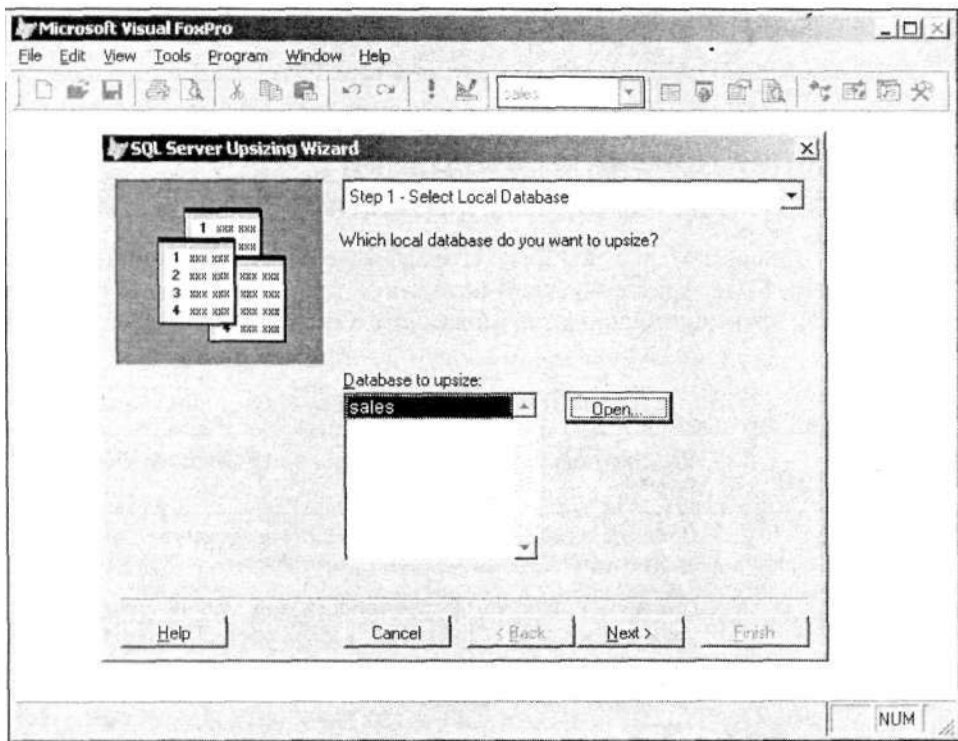
Замечание

ODBC,

22.

Wizards (), Tools (), Upsizing ().

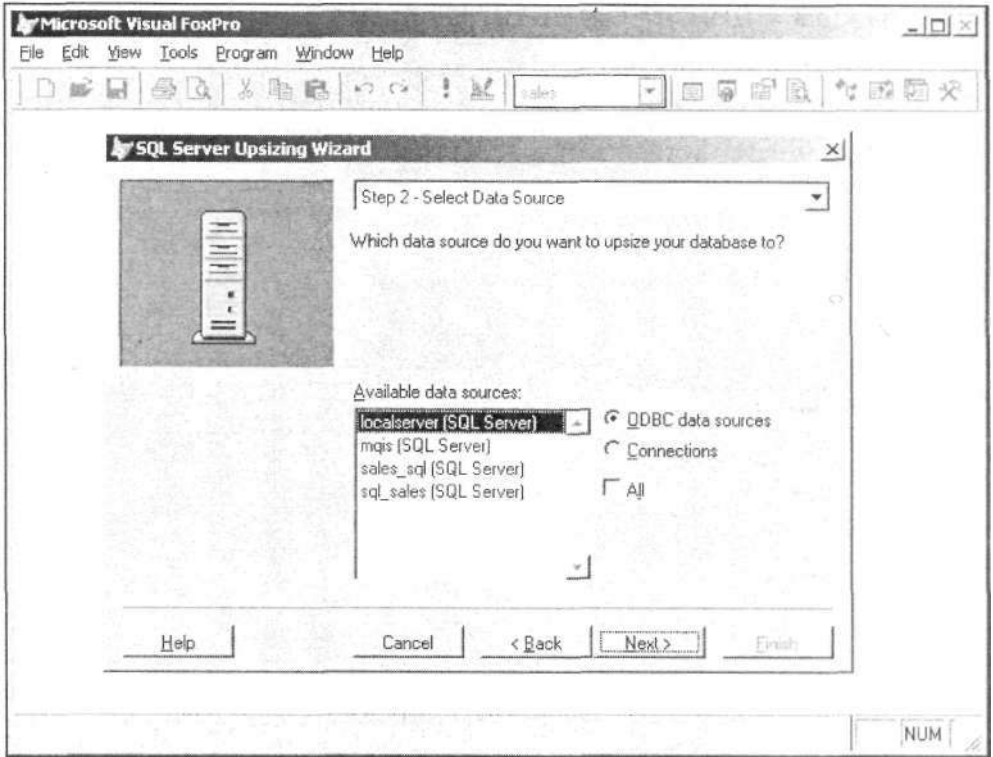
SQL Server (. 23.1).



. 23.1.

(. 23.2).

Upsize (Upsize2, Upsize3).



. 23.2.

Next ()

ODBC

Login (ODBC).

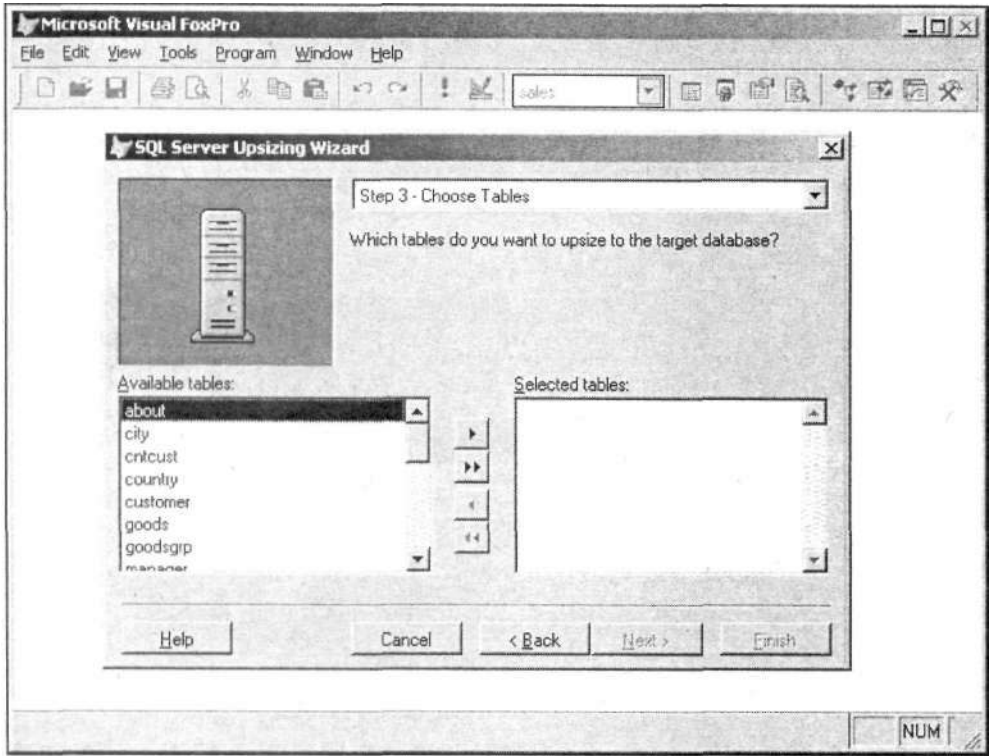
SQL

Server,

ODBC.

(. 23.3).

SKIP.



. 23.3.

SQL Server

. Visual FoxPro

Visual FoxPro.

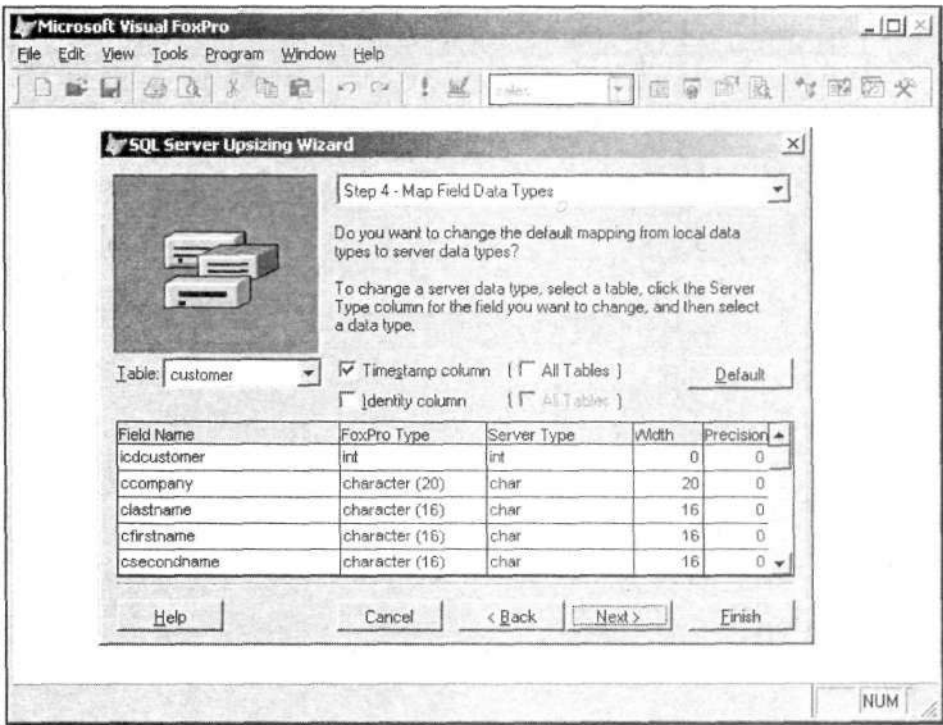
Reset To Defaults () ;

Visual FoxPro,
SQL Server.

(. 23.4).

Server Type

().



.23.4.

(.23.5).

Visual FoxPro

SQL Server,

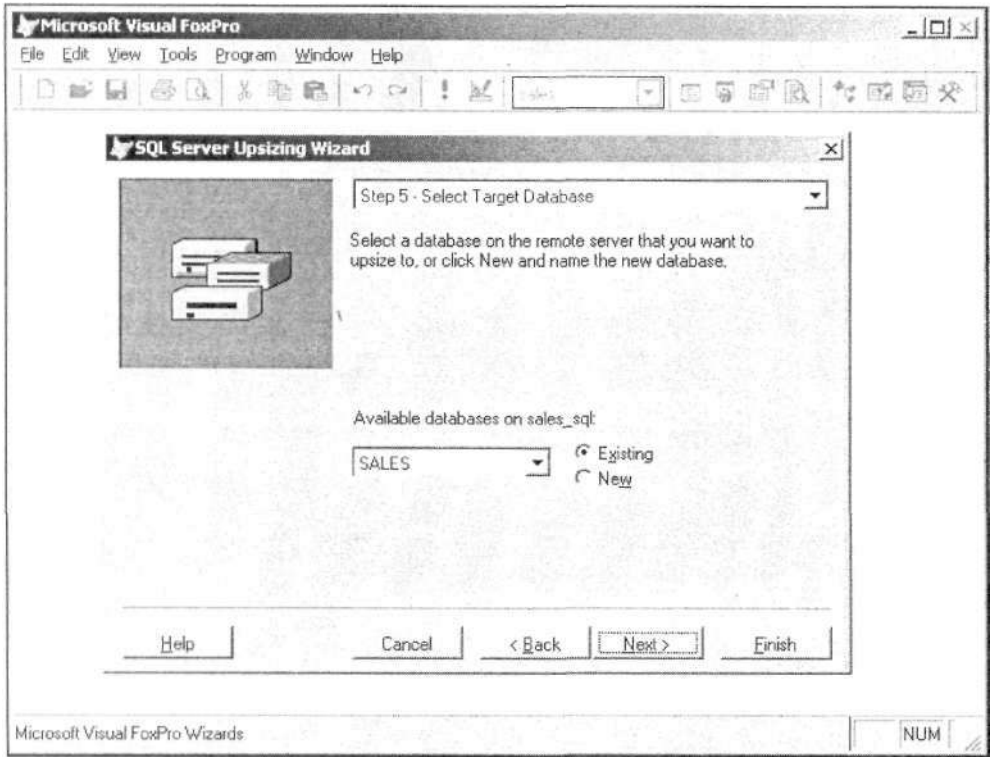
30

"#",

"\$" "_".



SQL Server.



. 23.5.

2 : , SQL Server. SQL Server ,

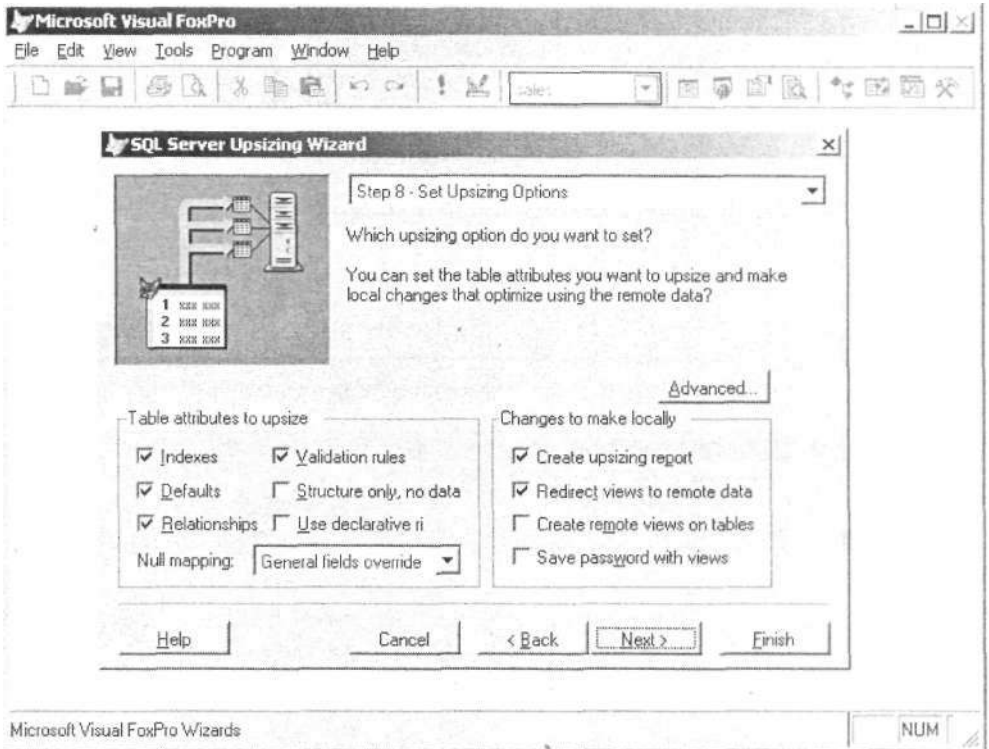
(. 23.6).

Visual FoxPro SQL Server.

SQL Server

SQL Server.

Замечание



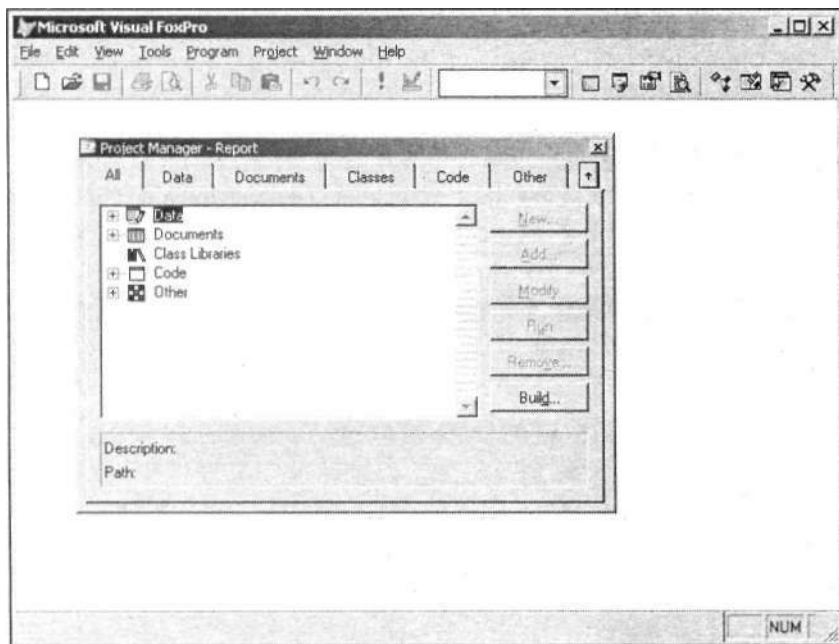
. 23.6.

SQL DUMP TRANSACTION.

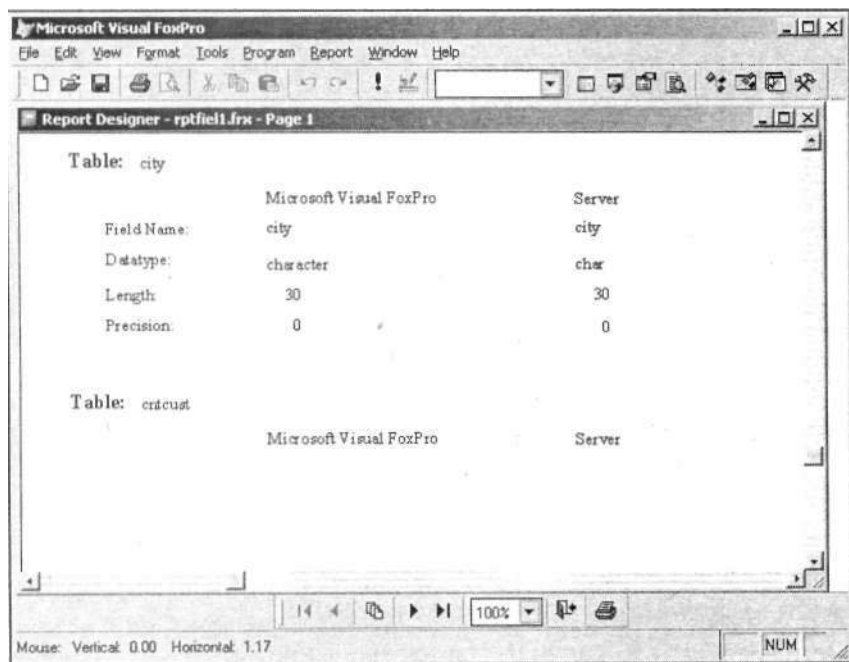
SQL;

SQL

SQL.



. 23.7.



. 23.8.

SQL CREATE TABLE. SQL, -
, SQL, , SQL, -
.
Report () (. 23.7), -
, Visual
FoxPro, (. 23.8).

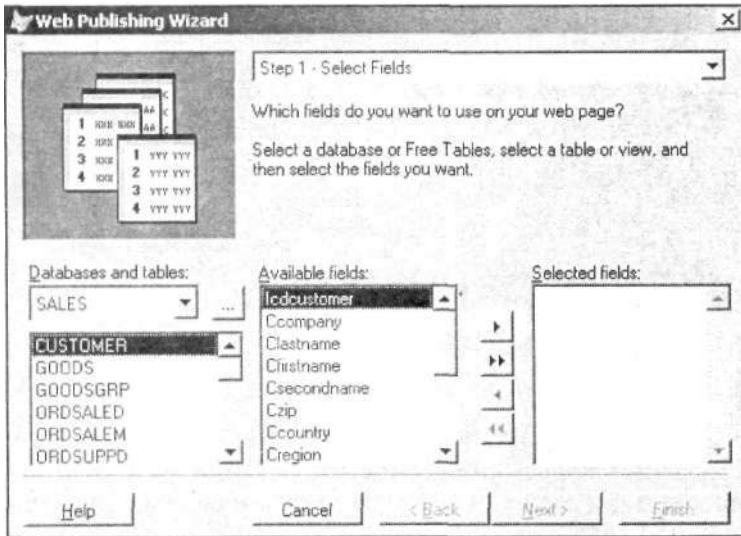


Web

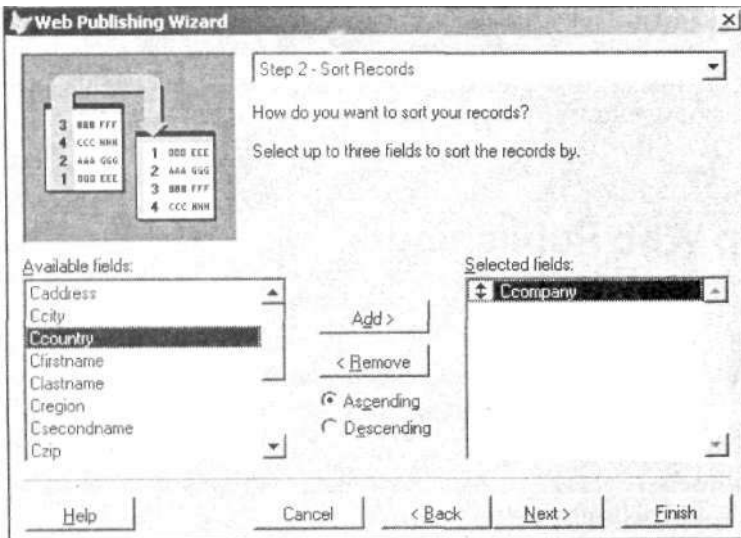
(Web), FoxPro. Visual FoxPro Web Web Publishing
 , Web
 Web

Web Publishing

- 1. Web
- 2. Tools () Wizards (),
 — Web Publishing (Web) .
- 3. and tables () Web Databases
 — Available fields ()
 (. 24.1).



. 24.1.



. 24.2.

4. Available fields () Selected fields (-
) , Web .
 Next ().
5. (. 24.2). ,

Selected fields ().

Available fields or index tag ()

Selected fields Add () .

Ascending () Descending () -

6. Next ().

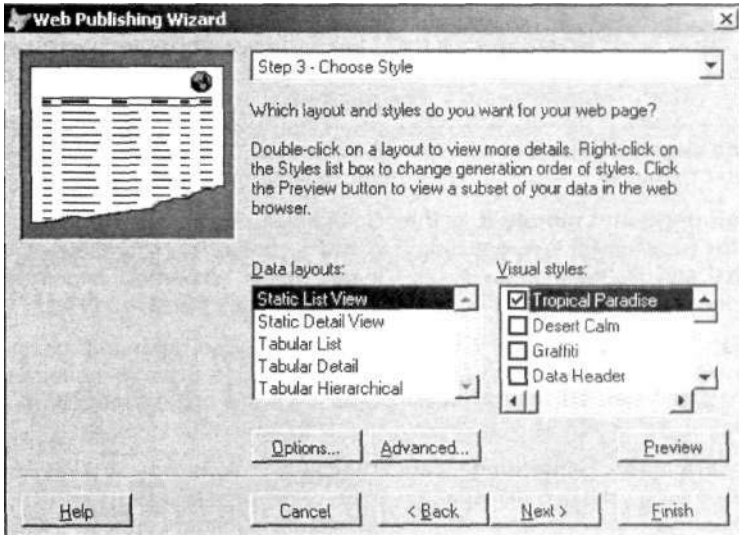
Web -

(. 24.3). -

Data layouts (),

Visual styles () -

Web



. 24.3.

- Options () — Web ;
- Advanced () — Web ,

- **Preview** () — Web Internet Explorer
- Web
- Next ().

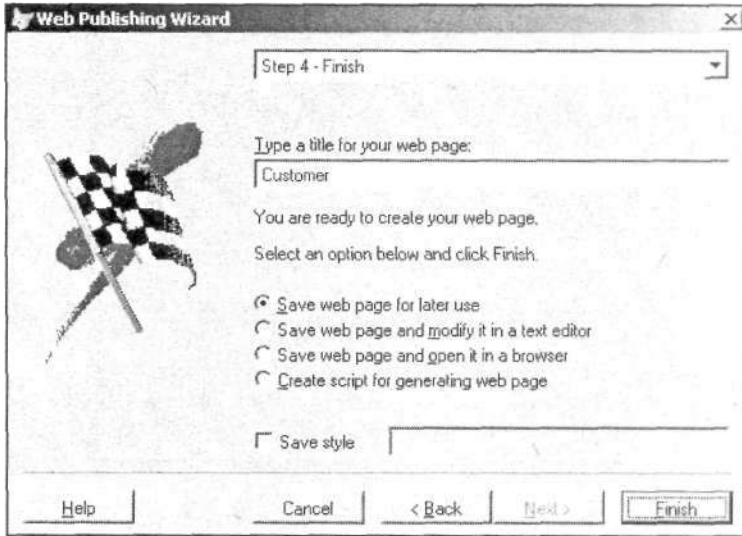
Замечание

7. (. 24.4) Web . 24.1.

24.1. Web Publishing Wizard — Step 4

-
- Save web page for later use** (Web) Web
 - Save web page and modify it in the text editor** (Web) Web
 - Save web page and open it in a browser** (Web Web Web) Web
 - Create script for generating web page** (Web) Web PRG, Web
-

- Type a title for your web page** (Web Web) Web
- Save style** () Web



. 24.4.

8. **Save As** (, **Finish** ()).
 Web

Web

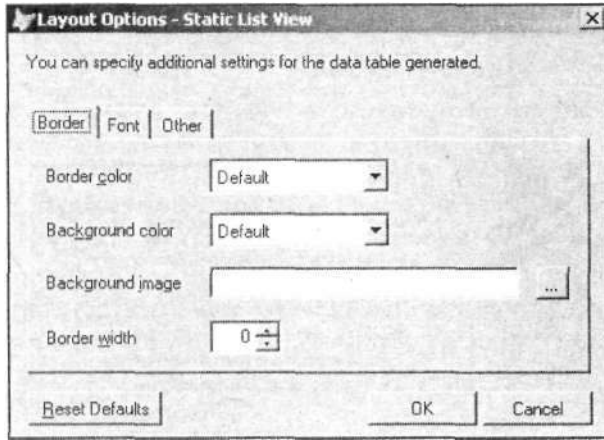
(Web) . Web **Web Publishing**
 (. . 24.3).

Layout Options

Layout Options () (. 24.5)
 Web

Options () -
Layout Options (

Data layouts () , . .

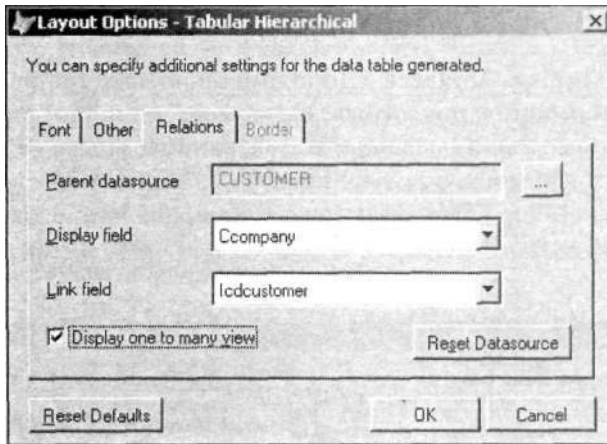


. 24.5. Layout Options

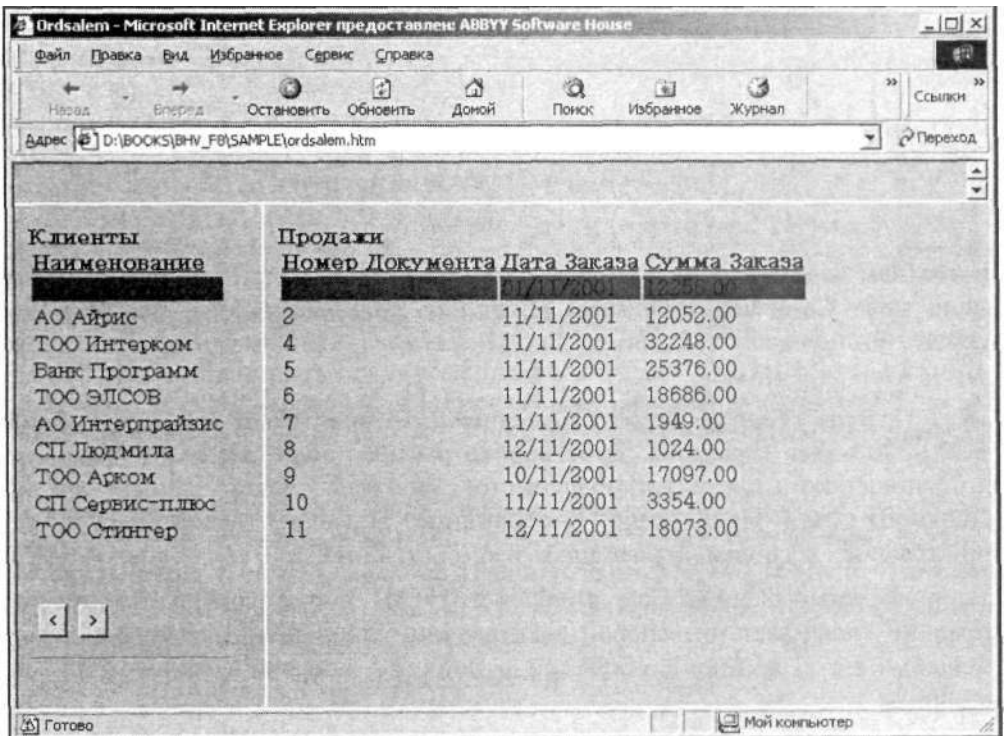
Layout Options ()

Web :

- **Border** () — , , **Background image** () ;
- **Font** () — (Web ,) ;
- **Other** () — HTML .
- **Relations Options** () (. 24.6) — **Tabular Hierarchical** () .
- **Relations** () , . Web , . 24.7.



24.6. Relations Layout Options



24.7. Web Relations

Advanced

Advanced ()

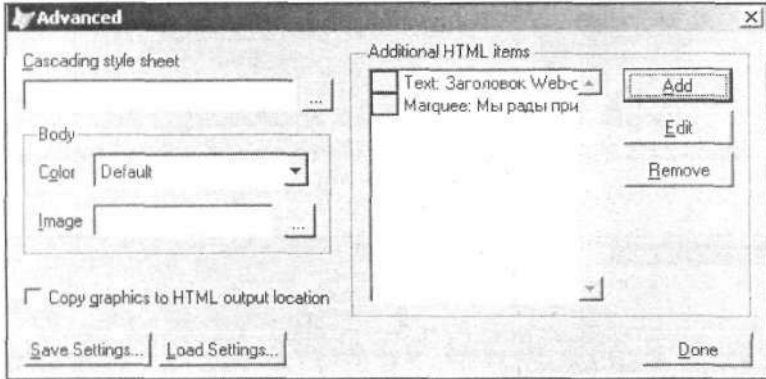
. 24.8.

Web

(css),

Web

HTML



. 24.8.

Advanced

Advanced ()

Cascading style sheet (),

Web

Body ()

Color ()

Web

Image ()

Copy graphics to HTML output location ()

Web

Additional HTML items (HTML)

Web

. 24.2.

24.2.

Additional HTML Items

Add () (. 24.9), **HTML Item** (HTML)
 Web

Edit () **HTML Item** (HTML)
 Web

Remove () HTML

(. 24.3).

24.3.

Advanced

Save Settings () , **Save Settings** () -

Load Settings () , **Load Settings** () -

Done () Web -

Additional HTML items (HTML Web),

HTML Item (HTML) (. 24.9), **Add**
 () .

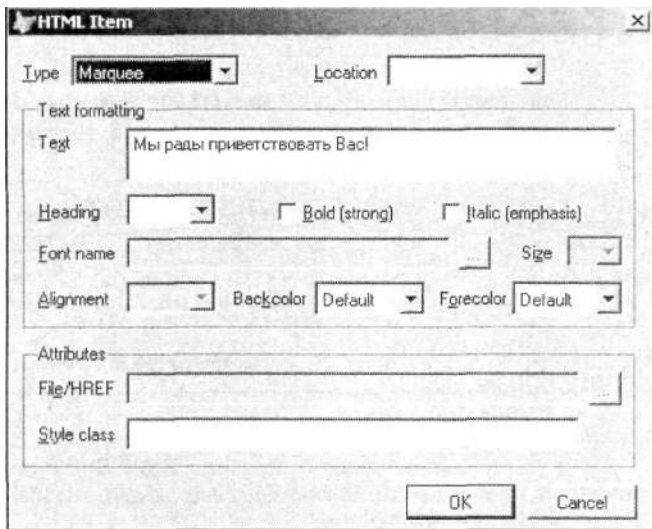
HTML (), Web -

Location () — **HTML Item** (HTML) -

. Web :

- **Text** — ;
- **Hyperlink** — ;
- **Image** — ;
- **Marquee** — ;
- **Horizontal Rule** — ;

- **Line Break** — ;
- **Tag** — .



. 24.9. HTML Item

HTML Item (HTML)

Web

Web Publishing (Web).

Web ,

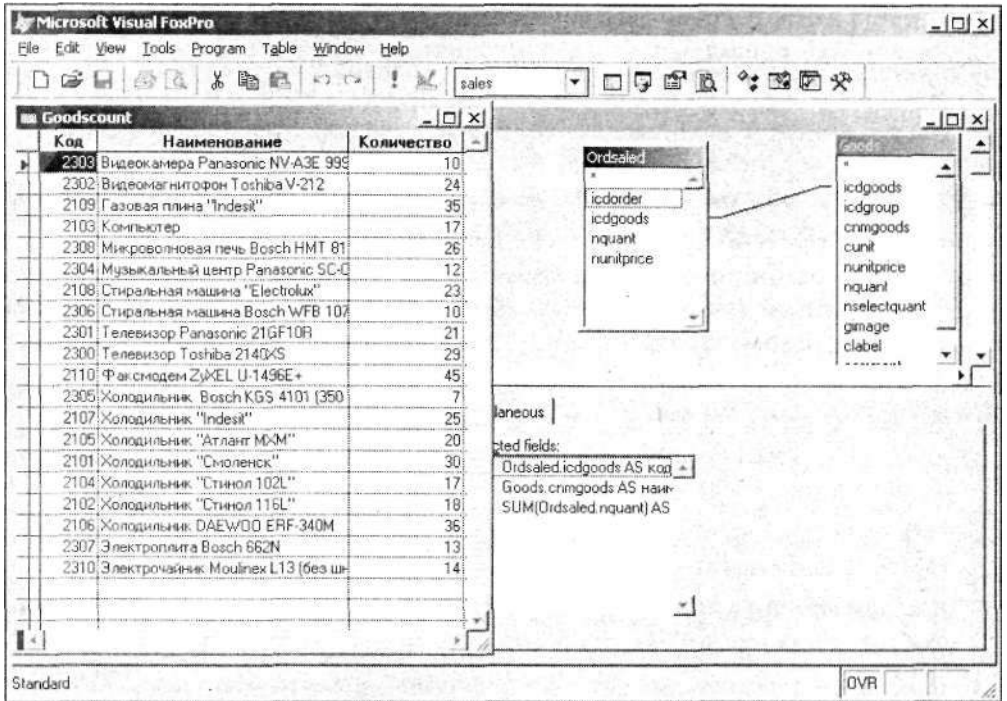
GoodsCount.

Web ,

GoodsCount,

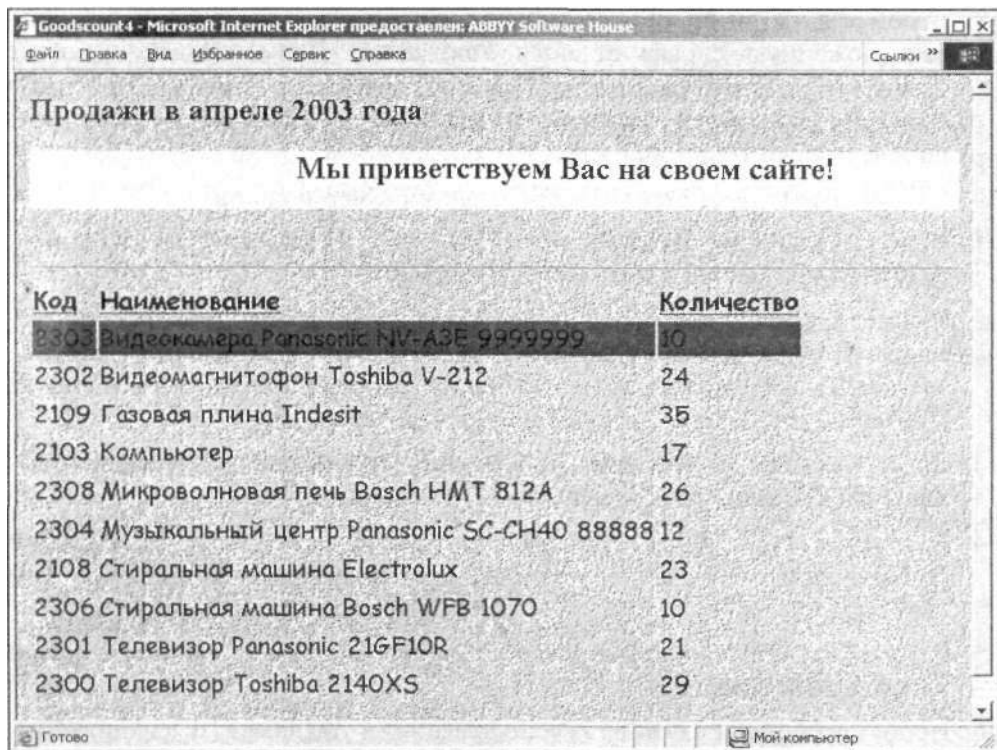
Ordsaled Goods.

1. () Data Local Views (-)
New ().
2. Ordsaled Goods,
- 3.
4. Selected fields ()
5. Selected fields ()
SUM(Ordsaled.nQuant)
6. Group By ()



- 7. **Order By** ().
 - 8. **File** () -
Save As (). **View Name** () -
Save () -
GoodsCount
 - 9. (. 24.10), -
Run ()
 - 10.
- Web :
- 1. *GoodsCount*.
 - 2. **Tools** () **Wizards** (), -
— **Web Publishing** (Web).
 - 3. **Databases and tables** -
() *GoodsCount*. -
Available fields (-
) **Selected fields** (). -
, **Next** ().
 - 4. Web -
(. . 24.3). , -
Data layouts () **Tabular List** ()
).
 - 5. Web ,
Advanced ().
(. . 24.8).
 - 6. **Add** (), **Additional**
HTML Items (HTML).
 - 7. () **HTML Item**
(HTML) **Marquee** ().
 - 8. **Text** () , -
!

- 9. **Font name** ().
Pick Font ().
- 10. **Size** ().
- 11. **BackColor** () **ForeColor** (),
- 12. **HTML Item** (HTML)
Additional HTML Items (HTML)
- 13. **Add** (), **Additional HTML Items** (HTML).
- 14. () **HTML Item Text** (HTML) ().
- 15. **Text** ()
2003
- 16. **Location** () **Alignment** (),
- 17. **Heading** ()
- 18. **ForeColor** (),
- 19. **HTML Item** (HTML)
Additional HTML Items (HTML Web)
- 20. **Advanced** (),
Done ().
- 21. **Next** ().
- 22. **Finish** ().
- 23. **Save As** ()
Web
Web



. 24.11. Web

Web

Publishing (Web), **Web**

Visual FoxPro. (. 24.12)

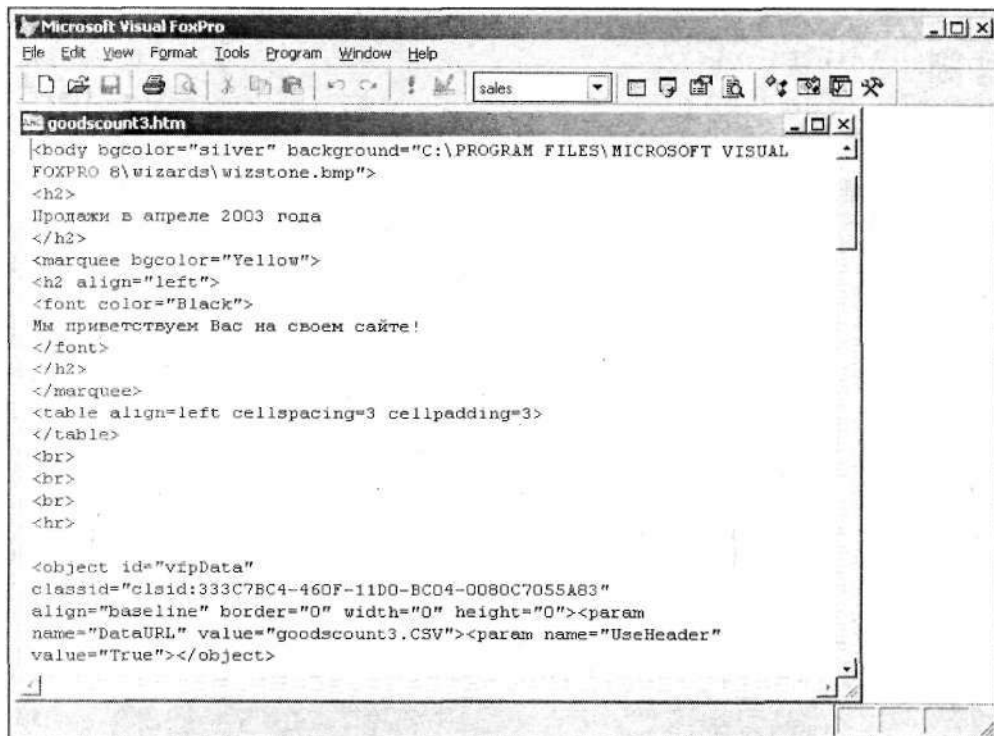
File () **Open** (),

htm,

Save (),

Web

Internet Explorer

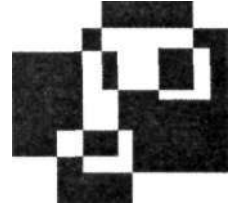


```
Microsoft Visual FoxPro
File Edit View Format Tools Program Window Help
sales
goodscount3.htm
<body bgcolor="silver" background="C:\PROGRAM FILES\MICROSOFT VISUAL
FOXPRO 8\wizards\wizstone.bmp">
<h2>
Продажи в апреле 2003 года
</h2>
<marquee bgcolor="Yellow">
<h2 align="left">
<font color="Black">
Мы приветствуем Вас на своем сайте!
</font>
</h2>
</marquee>
<table align="left" cellspacing=3 cellpadding=3>
</table>
<br>
<br>
<br>
<hr>

<object id="vfpData"
classid="clsid:333C7BC4-460F-11D0-BC04-0080C7055A83"
align="baseline" border="0" width="0" height="0"><param
name="DataURL" value="goodscount3.CSV"><param name="UseHeader"
value="True"></object>
```

. 24.12.

Web



Visual FoxPro

Visual FoxPro

Options () (. 25.1),

Options () **Tools** ().

. 25.1.

25.1.

Options

General ()

View ()

Data ()

Remote Data
()

File Locations
() FoxPro

Visual

Forms ()

Reports ()

Projects ()

Controls
() OLE

Regional

()

Debug ()

IDE ()

Editor ()

Field Mapping ()

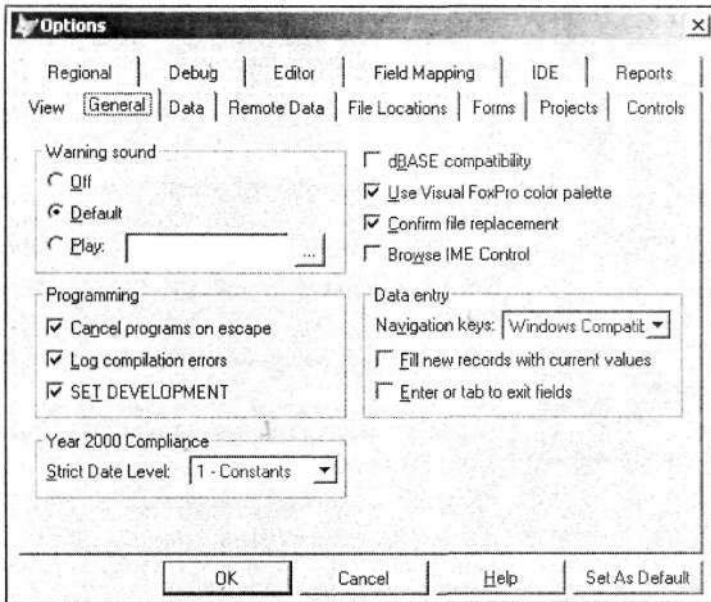
Visual FoxPro
Visual FoxPro

Set As

Default () .

Visual FoxPro,

Set As Default () —



Options

General

General () (. 25.1)

Warning sound ()

(. 25.2).

25.2.

Warning sound

Off (.)

Default (- (512 , —2)

Play ()

Play ()

WAV.

(. 25.3).

25.3.

dBASE compatibility

(Xbase .

Visual FoxPro

Visual FoxPro . 25.4

Use Visual FoxPro color palette (

Visual FoxPro)

Visual FoxPro

SET PALETTE

Confirm file replacement (

)

SET SAFETY

Browse IME Control

()

25.4.

SET COMPATIBLE

	On	Off
@...GET...RANGE		,
@...SAY	CHR(7)	CHR(7) -
@...SAY		-
@...SAY		
	PICTURE	PICTURE -
ACTIVATE SCREEN		, - ,
	0,0	
ACTIVATE WINDOW		, - ,
	0,0	
APPEND MEMO		
DECLARE		(DIMENSION)
DIMENSION		:
F SIZE		
GO/GOTO (-
SET TALK ON)		-
INKEY()	< > <Shift>+<Home> 26. 1	< > <Shift>+<Home> 1. <Ctrl>+<←> 26 -
LASTKEY()		(INKEY()) -
LIKE ()		- -
MENU POPUP		, - , -

25.4 ()

On

Off

-

CLEAR GETS

GETS

, ' - , ' -

PLAY MACRO

<Alt>+<F10>

A Z.

<F1>—<F9>

<Alt>

READ

VALID
<Esc>

- <Esc>
- VALID

RUN

24

3

SELECT()

SET COLOR TO

, (- COLOR OF SCHEME)

SET BORDER

SET FIELDS

SET MEMOWIDTH

Memo

SET MESSAGE

SET STATUS

ON

SET PRINTER TO

PRT

25.4 ()

On

Off

STORE He -

SUM -

SET DECIMALS

SYS(2001,'COLOR') -

SET COLOR COLOR TO SET

TRANSFORM

USE VFP VFP

, ;

- ;

—

Programming () General () -

, (. 25.5).

25.5.

General

Cancel programs on escape (-

<Esc>

<Esc>)

Log compilation errors (-

() ,

SET DEVELOPMENT -

(Visual FoxPro , -

Data entry () General ()

, :

• Navigation keys () SET

KEYCOMP;

- **Fill new records with current values (**)

SET CARRY;

- **Enter or tab to exit fields (** <Enter> <Tab>

<Enter> < b>.

SET CONFIRM.

Замечание

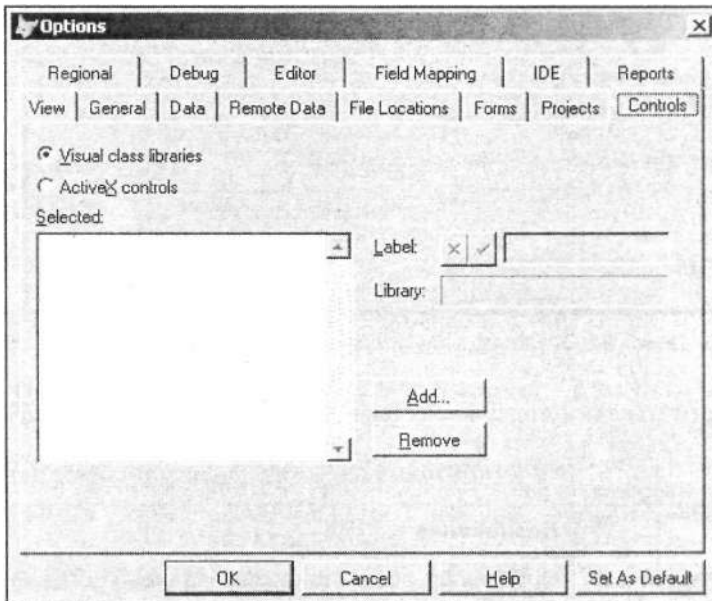
SET CARRY

- **Year 2000 Compliance (** 2000) **General**
- () **Strict Date Level (**

"), " "

Controls

- **Controls (**) (. 25.2)
- ActiveX



FoxPro. ActiveX

OLE.

ActiveX

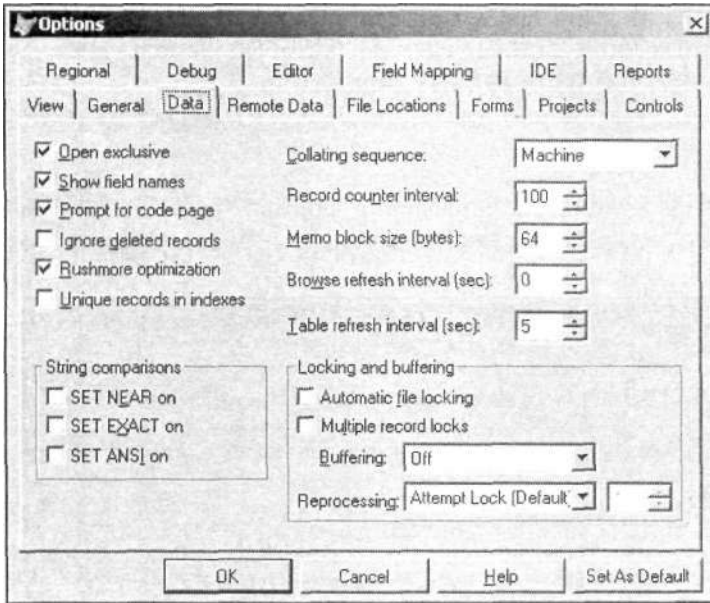
Form Controls (

View Classes (

Data

Data () (. 25.3)

Memo



. 25.3.

Data

Options

. 25.6.

25.6.

Data

Open exclusive (

, Visual FoxPro

)

25.6 ()

Show field names (- SET HEADINGS ,
) , AVERAGE,
 DISPLAY, LIST SUM

Prompt for code page (- , -
) , -

Ignore deleted records (- , Visual FoxPro -
) SET DELETED -

Rushmore optimization () Rushmore. SET
 OPTIMIZE

**Unique records in in-
 dexes** (- , -
) SETUNIQUE

Collating sequence ()

ASCII . SET COLLATE.
 . 25.7.

25.7.

Data

Record counter interval (- REINDEX, PACK.
) SET ODOMETER

Memo block size (bytes) (Memo) Memo
 SET BLOCKSIZE

**Browse refresh interval
 (sec)** (- **Browse** (,), -
) SET

Browse) REFRESH

**Table refresh interval
 (sec)** (- , -
)

comparisons (), , . **String** 25.8.

25.8. String comparisons

SET NEAR on , FoxPro ,

SET EXACT on , -
-
-

SET ANSI on , -
,

Locking and buffering () -
 , . 25.9.

25.9. Locking and buffering

Automatic file locking , -
() - , SET
LOCK

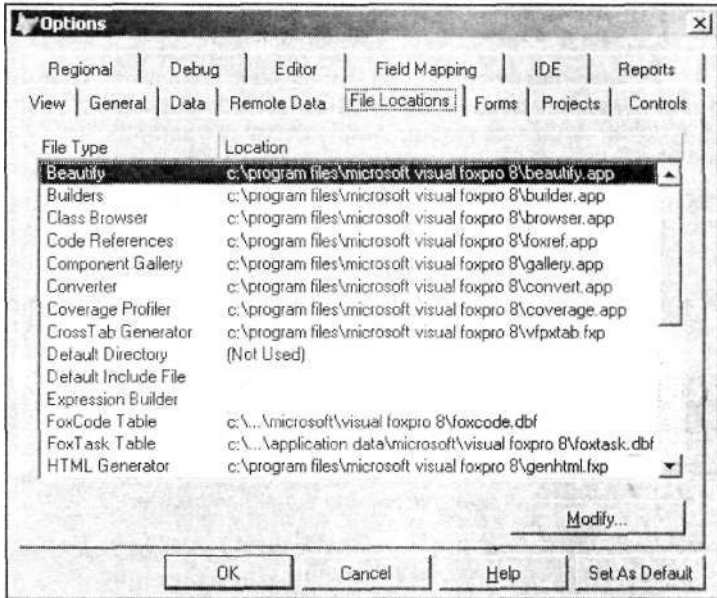
Multiple record locks , -
() - SET MULTILOCKS

Buffering (), -
— **Reprocessing** ().

File Locations

FoxPro , -

File Locations () (. 25.4).



25.4. File Location Options

25.9

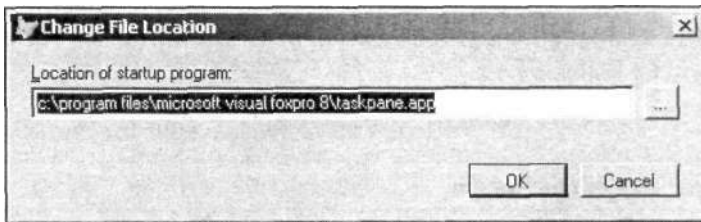
25.9. File Location

Beautify	-	Beautify.
Builders	-	Builder.app
Class Browser	-	Browser.app
Code References	-	FoxRef.app

Beautify ()	Tools ()
Builders ()	Tools ()
Class Browser ()	Tools ()
Code References ()	Tools ()

Component Gallery		-	Gallery.
Converter		-	Converter.
	,		
	FoxPro,		Visual FoxPro 8.0
Coverage Profiler		,	- Coverage.
Cross tab Generator		-	Vfpxtab.fxp
Default Directory		,	-
	Visual FoxPro		
Default Include File		,	
Expression Builder		-	
FoxCode		,	Foxcode.dbf
	IntelliSense.		-
	FoxCode		
FoxTask			Foxcode.dbf
		.	-
			FoxTask
HTML Generator		-	Gethtml.app
	,		
	—		HTML.
			-
Help File			Foxhelp.chm
IntelliSense Manager	Man-		- Foxcode.app
	,		Visual FoxPro Intelli-
	Sense		
Menu Builder		-	
Object Browser			Object
	Browser ()

Resource File	-
Samples Directory	Visual FoxPro
Search Path	-
Startup Program	- Vfp6strt.app Visual FoxPro
Task List	- Tasklist.app _TASKLIST
Temporary Files	-
Toolbox	- Toolbox.app Tools ()
Wizards	- Wizard.app Visual FoxPro



. 25.5.

Change File Location

Location ()

:

• Modify () ;

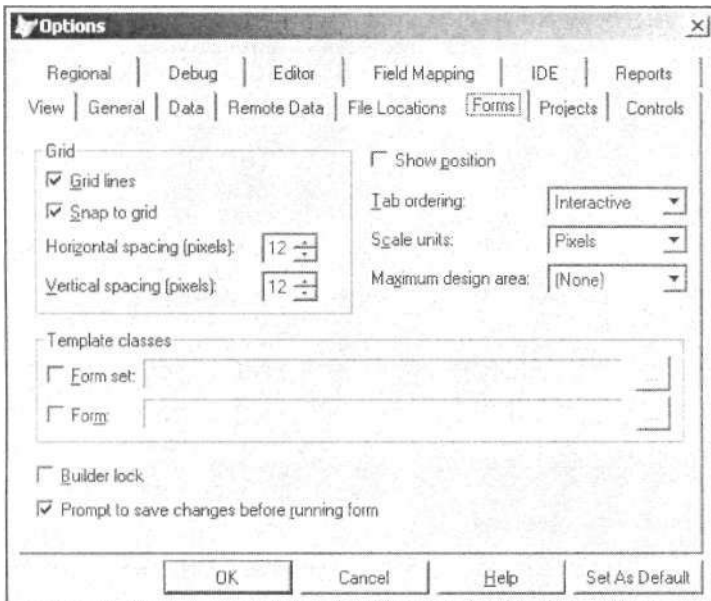
Change File Location (

) (. 25.5),

Forms

Forms ()

Options () (. 25.6)



. 25.6.

Forms

Options

Grid ()
(. 25.10).

25.10.

Grid

Grid lines ()

Snap to grid (-)

(. 25.11).

25.11.

Grid

Horizontal spacing (pixels) ()	-
Vertical spacing (pixels) ()	-

Show position ().

Tab ordering (Interactive () By List (< b>), -

, < b>: -

< Shift>; -

• Interactive () — -

< Shift>; -

• By List () — -

Visual FoxPro -

: -

Scale units (-

). -

Maximum design area () -



Template classes (-

Form set () Form (-

) -

Controls ().

Builder lock () -

Prompt to save changes before running form () -
) -

Projects

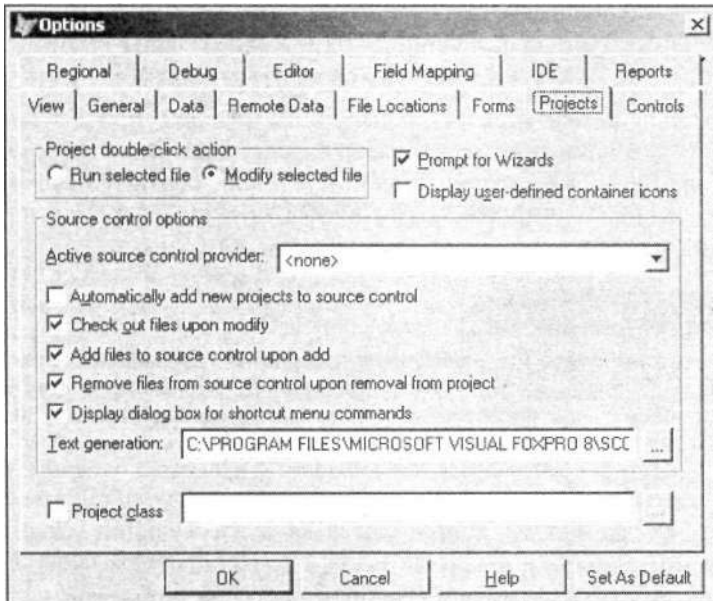
Projects () (. 25.7) -

Project double click action () :

- Run selected file () —

;

- Modify selected file () —



Prompt for Wizards ()

Display user defined container icons ()

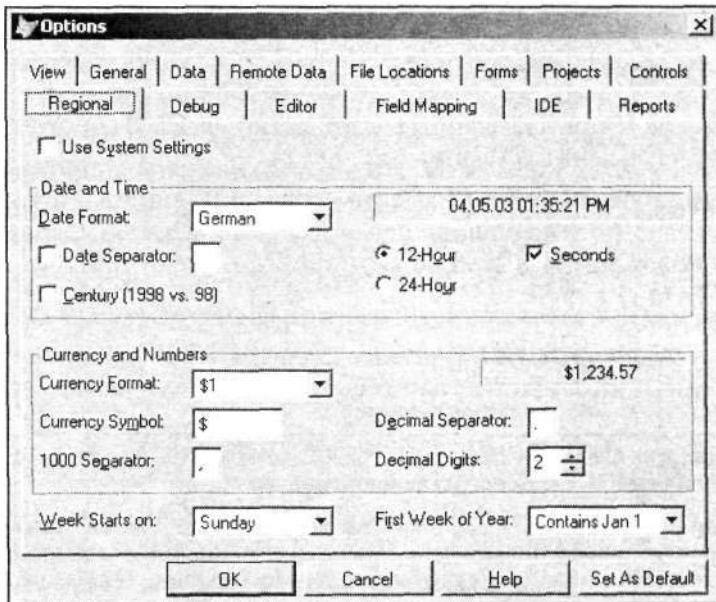
Project class ()

13.

Regional

Regional () (. 25.8)

Use System Settings ()



(). **Date Format** () **Date and Time** -

and Numbers (). **Currency Format** () **Currency** -

SET CURRENCY LEFT SET CURRENCY RIGHT. **unenc** -

Symbol () -

SET CURRENCY TO. **1000** -

Separator () -

SET SEPARATOR. -

Decimal Separator () -

Decimal Digits () -

0 18. SET

DECIMALS

Week Starts on () **First Week of Year** () -

Remote Data

Remote Data () (. 25.9)
Visual FoxPro

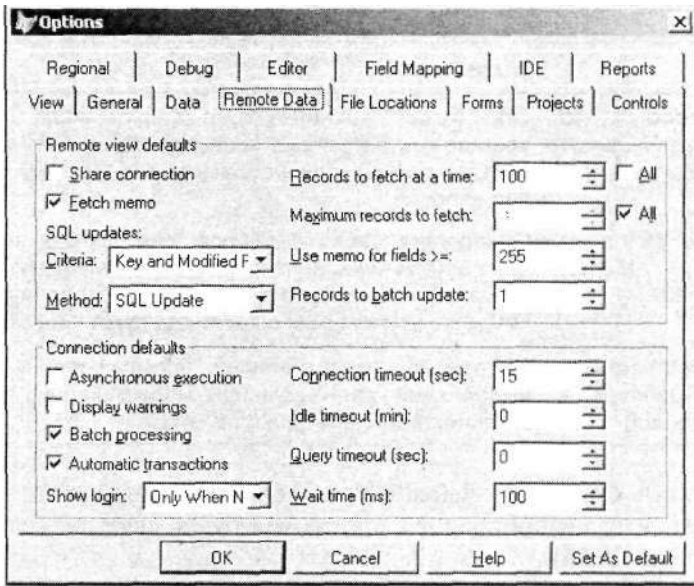
Remote view defaults () -

. 25.12. -

25.12. *Remote view defaults*

Share connection () - ODBC

Fetch memo () Memo
Memo Memo -



. 25.9. Remote Data Options

Criteria ()

:

- Key Fields Only () —
- Key and Updatable Fields () —
- Key and Modified Fields () —
- Key and Timestamp () —

Method ()

. 25.13 Remote Data

25.13.

Remote Data

Records to fetch at a time ()

25.13 ()

Maximum records to fetch () , -
) -
) -

Use memo for fields >= (Memo) Memo . -
) 254
 , 255

Records to batch update () , -
) , -

Connection defaults ()
 (. 25.14).

25.14.

Connection defaults

Asynchronous execution () , -
) -
) -
 , -

Display warnings (-) -
) -

Batch processing (-)

Automatic transactions () , -
) - SQLCOMMIT SQLROLLBACK

Show login () -

Connection defaults ()
 , . 25.15.

25.15.

Connection defaults

Connection timeout ()	-	-
Idle timeout ()	-	0 -
Query timeout ()	-	-
Wait time ()	-	-

View

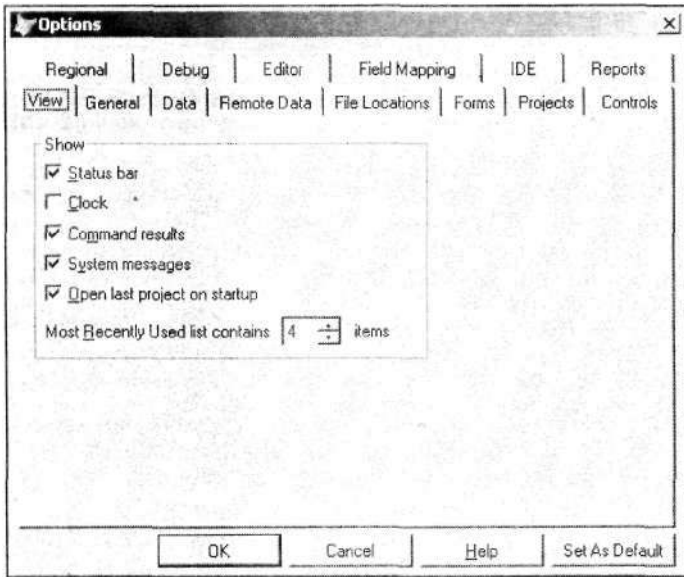
View () (. 25.10)
(. 25.16).

25.16.

View

Status bar ()	-	-
	FoxPro	Wait ()
Clock ()	-	-
Command results ()	-	-
System messages ()	-	SET
	NOTIFY	
Open last project on startup ()	-	Visual FoxPro
	-	

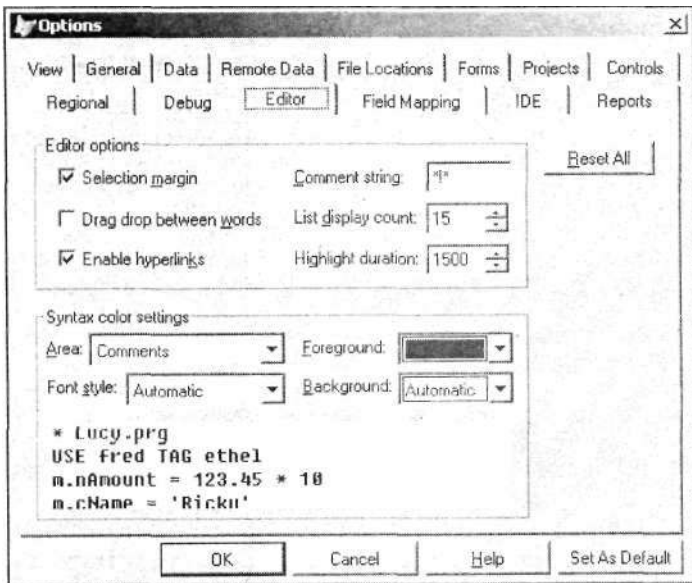
Most Recently Used list contains ()
,
File ().



. 25.10. View Options

Editor

Editor () (. 25.11) Options ()
Visual FoxPro.



. 25.11. Editor Options

- **Selection margin** () — ;
- **Drag drop between words** () — ;
- **Enable hyperlinks** () — "http:/" ;
- **Comment string** () ;
- **List display count** () ;
- **Highlight duration** () ;
- **Area** () ;
- **Syntax color settings** () ;
- **Visual FoxPro** () ;
- **Font style** () ;
- **Background** () — ;
- **Reset All** () ;
- **Foreground** () ;

Debug

- **Debug** () (. 25.12) ;
- **Options** () ;
- **Debug Output** () ;
- **Environment** () ;
- **Debug Frame** () — ;

FoxPro

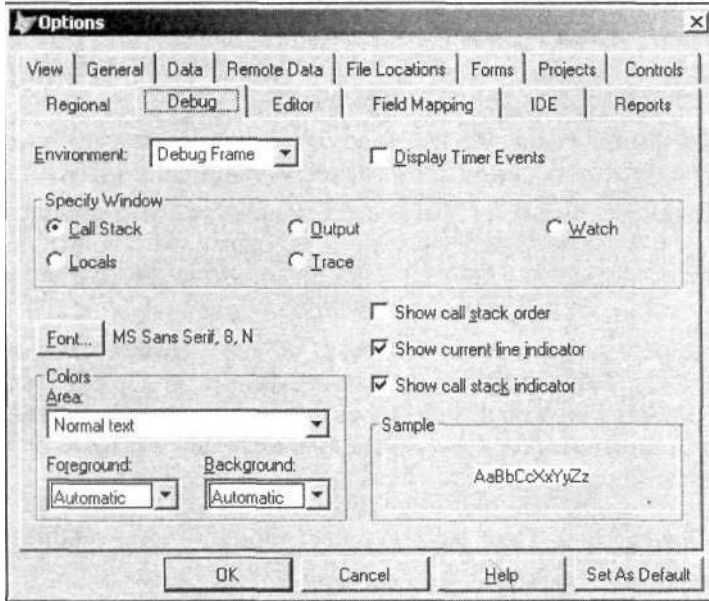
Debugger ()

Tools ();

- **FoxPro Frame** (FoxPro) —
Visual FoxPro.

Tools ()

Debugger ()



. 25.12.

Debug

Options

Trace ()

Display Timer Events ().

Specify Window ()

- **Call Stack** ().
(. 25.17);

Call Stack (

- **Output** ().
(. 25.18);

Debug Output (-

- **Trace** ().
(. 25.19).

Trace ()

25.17.**Call Stack**

Show call stack order () -

Show current line indicator () - Call Stack ()

Show call stack indicator () Trace () , -

25.18.**Debug Output**

Log Debug Output () -

Append () Debug Output () -

Overwrite () Debug Output ()

25.19.**Trace**

Show line numbers () -

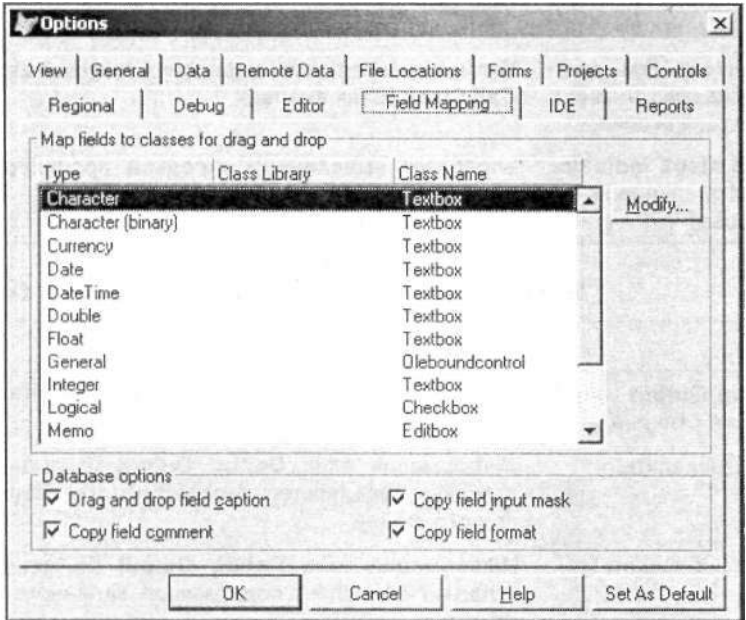
Trace between breakpoints ()

Pause between line execution ()

Colors () Font () , .

Field Mapping

Field Mapping () (. 25.13) ,



. 25.13. Field Mapping Options

- () — ;
- **Class Library** () — , -
- **Class Name** () — , -
- **Modify** () -
- **Modify Field Mapping** () -
- **Database options** () **Field Mapping** ()
- (. 25.20).

25.20.

Database options

Drag and drop field caption (

)

Copy field comment

(- comment ())

Copy field input mask

(inputMask ())

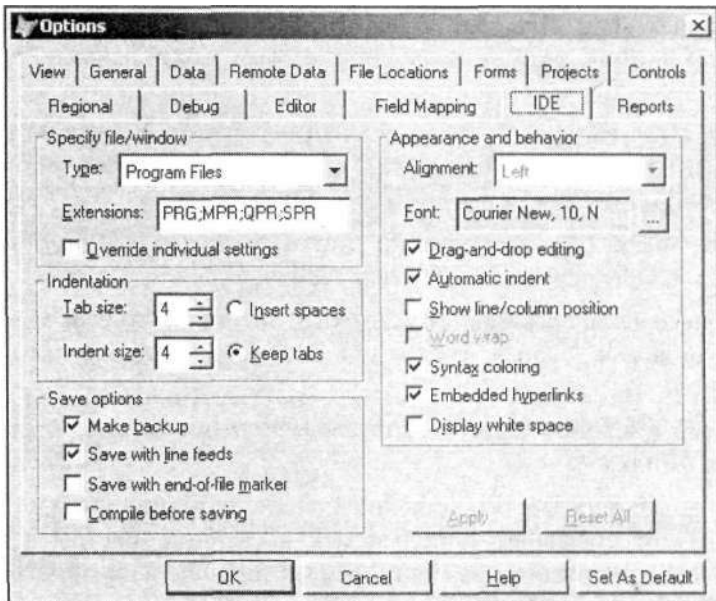
Copy field format

(())

Format

IDE

IDE (. 25.14)

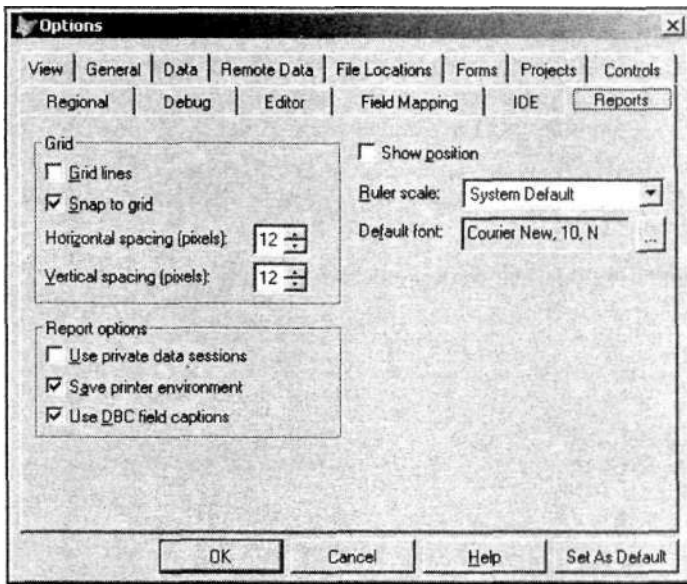


- Specify file/ window (/)
- () Extensions () -
- Override individual settings () Over-
- Indentation () -
- Save options () -
- Make backup () — -
- Save with line feeds — -
- CHR(13)+CHR(10);
- Save with end of file marker () — -
- Ctrl+Z ;
- Compile before saving () — -
- Appearance and behavior () -
- ment () : Align-
- Font () , -
- Drag and drop editing () — -
- "; -
- Automatic indent () — -
- ; -
- Show line/ column position () — -
- Memo ;
- Word wrap () — -
- ; -
- Syntax coloring () — -
- ; -
- Embedded hyperlinks () — , -
- ; -

- **Display white space** () — (, - . .))
 Apply ()
 IDE, Reset All ()
 Visual FoxPro.

Reports

Reports () Options () (. 25.15)



. 25.15. Reports Options

Grid () (. 25.21).

25.21. Grid

Grid lines ()

Snap to grid ()

(. 25.22).

25.22.

Grid

Horizontal spacing (pixels)

()

Vertical spacing (pixels)

()

-

Show position ().

Visual FoxPro

-

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()

-

Ruler scale ().

Default font ()

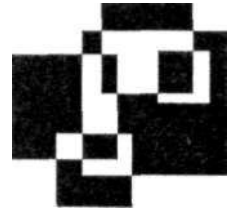
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Report Options ()

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Visual FoxPro

Visual FoxPro,

Visual FoxPro.

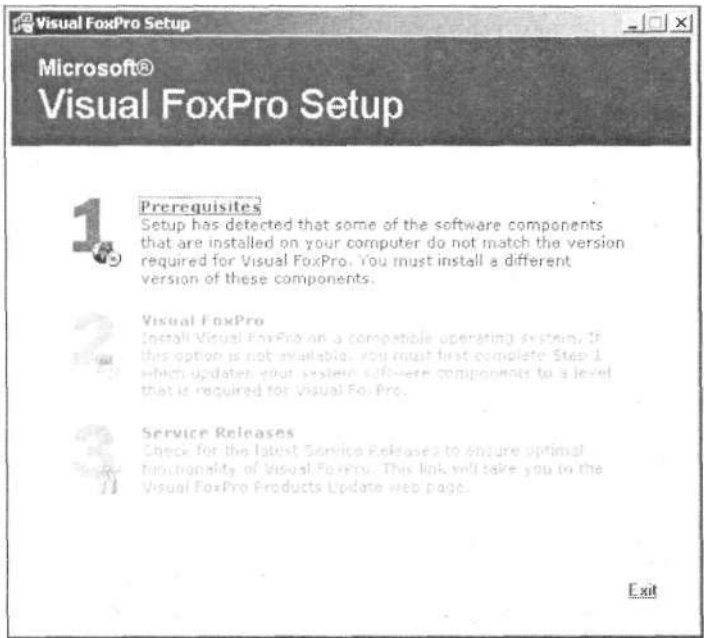
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- — 128
- — 64
- 165
- MS Windows 98, Windows ME, Windows XP, Windows 2000 ().
- —
- : 800 600 -
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-
- Visual FoxPro 8.0 -
- Windows 2000 -
- Windows 2000 Service Pack 2.

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Visual FoxPro 8.0

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- , -
- Visual FoxPro 8.0 ,
- 1. -
- 2. Visual FoxPro 8.0 -
- CD ROM.
- 3. CD ROM ,
- Setup.
- CD ROM ,
- 4. -
- CD -
- 5. Visual FoxPro 8.0, -
- Windows
- (. 1).



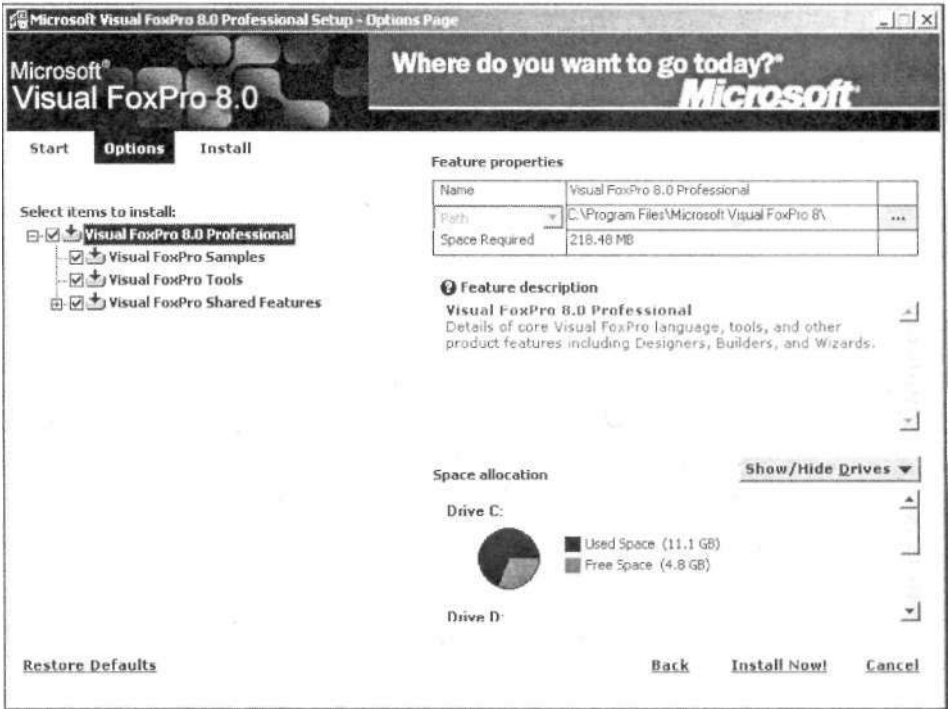
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7. Visual FoxPro 8.0 (. 2).

8.



. 2. Microsoft Visual FoxPro 8.0

Visual FoxPro

Visual FoxPro

Visual FoxPro

Visual FoxPro

1. Microsoft Visual FoxPro 8.0.

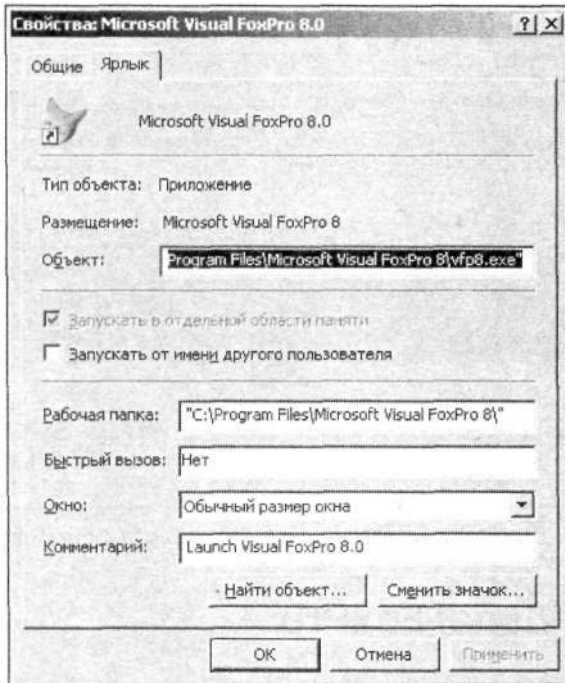
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3. : Microsoft Visual FoxPro 8.0

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. 3.

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CONFIG.FPW

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CONFIG.FPW.

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SET

Visual FoxPro

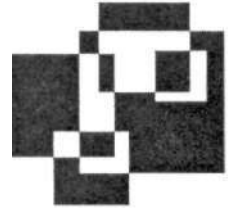
Visual FoxPro

Visual FoxPro

SET

CONFIG.FPW

SET



ANSI. American National Standards Institute ().

API. Application Program Interface (). API Visual FoxPro , Visual FoxPro.

ASCII. American Standard Code for Information Interchange (0 255). ASCII

BOF.

EOF.

Escape ESC. Escape

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