

# FastReport 4.6

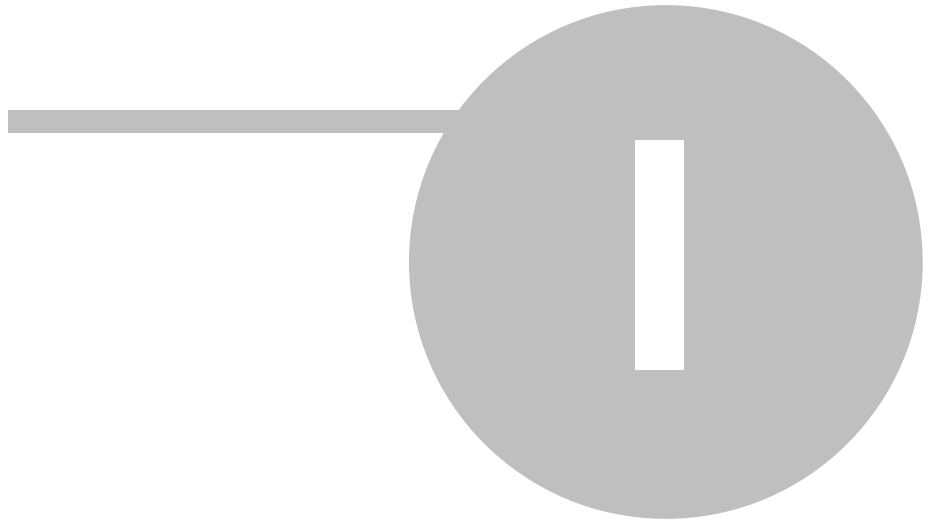
		I
<b>I</b>		<b>2</b>
1	.....	3
2	.....	3
3	.....	4
	.....	4
	"        " .....	5
	"    " .....	6
	"        " .....	7
	"        " .....	8
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design-time

TfrxReport.

Delphi design-time.

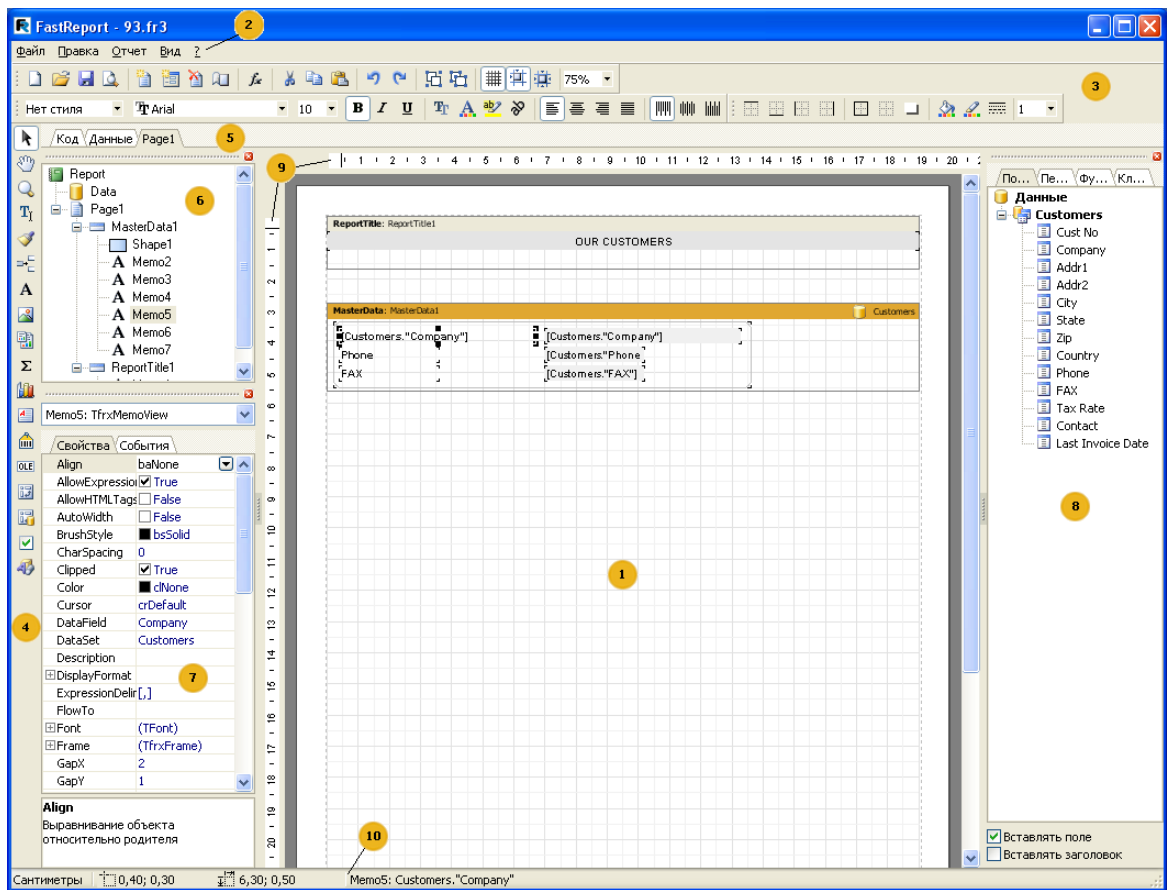
TfrxDesigner

frxDesgn.

FastReport,

run-time

uses



1 -

;



2- ;  
 3- ;  
 4- ;  
 5- ;  
 6- " ;  
 7- " ;  
 8- " ;  
 9- ;  
 10- ;

## 1.1

Ctrl+O	"   ..."
Ctrl+S	"   "
Ctrl+P	"   "
Ctrl+Z	"   "
Ctrl+C	"   "
Ctrl+V	"   "
Ctrl+X	"   "
Ctrl+A	"   "
, Tab	
Del	
Enter	
Shift+	
Ctrl+	
Alt+	

## 1.2



--	--




	;	;	(	);
			,	).
			.	
			"	"
			.	
Shift +			,	,
			.	
Ctrl +			;	;
			,	,
			,	,
			,	,
			,	,
Alt +			"	"
			,	,

### 1.3

#### 1.3.1

:










		,
		,
		.











		100%, 100%. , , , .
		" " , , " " .
		" " " " , " "

1.3.2

" "

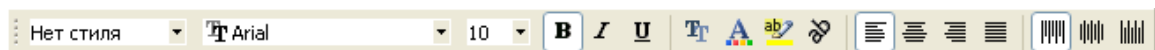


		.
		- Ctrl+O.
		Ctrl+S.
		- Ctrl+P.
		.
		.
		.
		.
		.









		- Ctrl+X.
		- Ctrl+C.
		- Ctrl+V.
		- Ctrl+Z.
		- Ctrl+Y.
		
		
		
		/
		/
75% ▾		

## 1.3.3

" "







		“   ... ”
<b>Arial</b>		
<b>10</b>		







<b>B</b>		/
<i>I</i>		/
<u>U</u>		/
<b>Tt</b>		
<b>A</b>		
ab		" "
		
		
		
		
		
		
		
		

1.3.4

" "















		/
		/
		/
		/

		
		
		/
		
		
		
<b>1</b>		

## 1.3.5

" "



## 1.4

" | ...".

**Настройки дизайнера**

**Сетка**

Тип                      Размер

Сантиметры:      0,1    см       Показывать сетку

Дюймы:            0,1    in       Выравнивать по сетке

Точки:             4      pt

Диалоговая форма: 4    pt

**Шрифты**

Редактор кода      Courier New    Размер 10

Редактор текста    Arial          Размер 10

Использовать шрифт объекта

**Цвета**

Рабочее поле      [ ]

Окна                [ ]

Цвет сетки для LCD-монитора

**Прочее**

Вызывать редактор после вставки

Показывать заголовки бэндов

Показывать выпадающий список полей

Свободное размещение бэндов

Промежуток между бэндами: 4    pt

Восстановить настройки      ОК      Отмена

),

" . "

" " " " "

" " ' " LCD- " " "

" " " " "

" " " " "

" " " " "

" " " " "

" " " " "

" " " " "

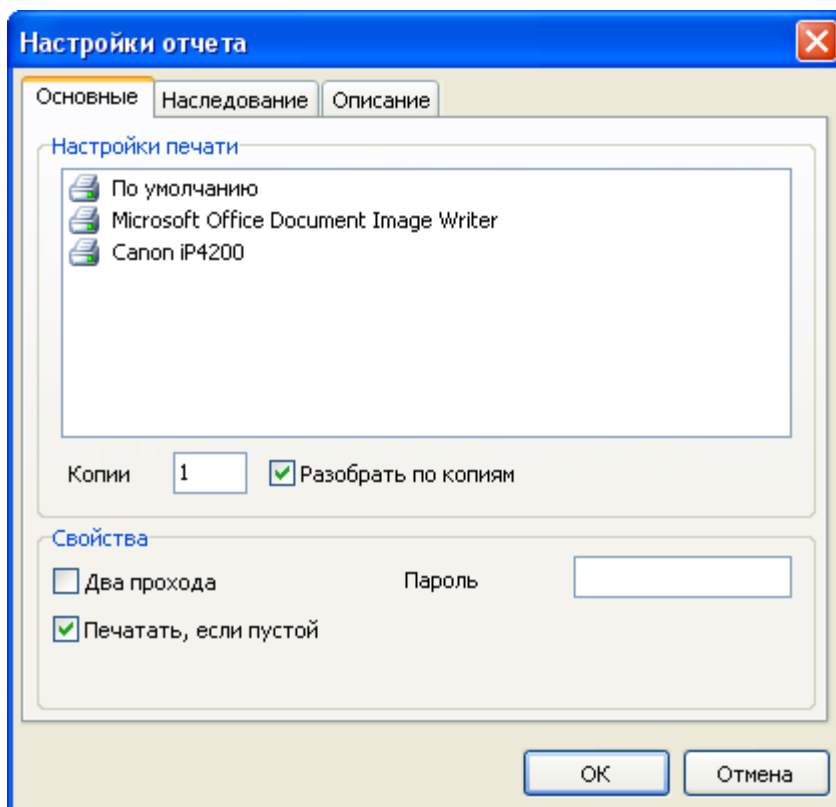
" " " " "

**1.5**

" | ..."

- :

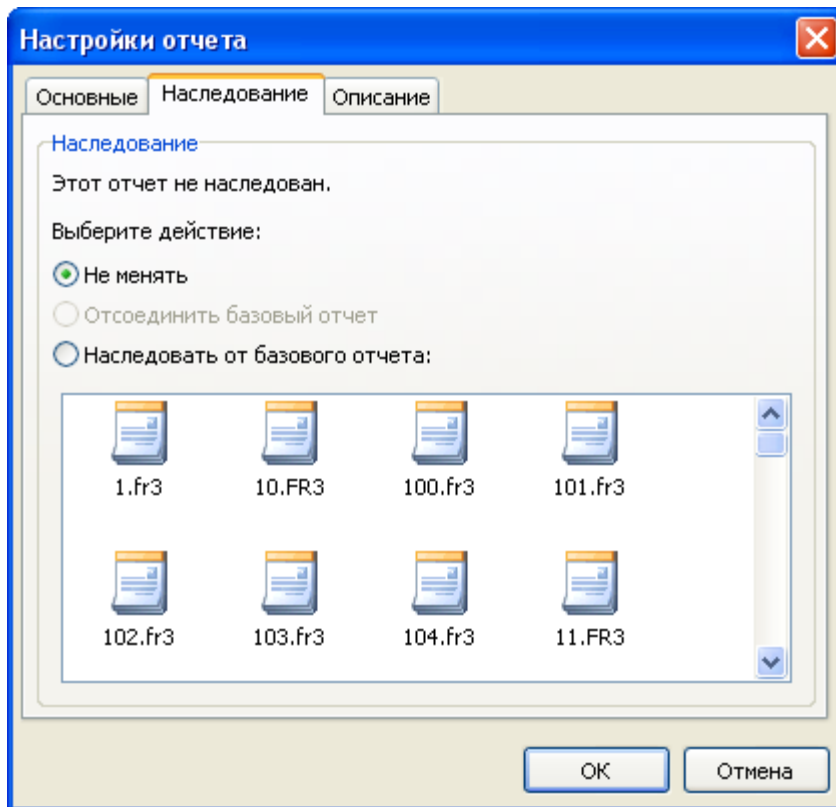




TOTALPAGES.

0.

FR.



The image shows a Windows-style dialog box titled "Настройки отчета" (Report Settings). It has three tabs: "Основные" (General), "Наследование" (Inheritance), and "Описание" (Description), with the "Описание" tab selected. The "Описание" section contains a text area with the text "This report demonstrates the ability to draw diagrams on the 'Data' tab." Below this is a "Картинка" (Image) field with a "Выбрать..." (Choose...) button. The "Версия" (Version) section includes input fields for Major, Minor, Release, and Build, and a "Выбрать..." button. At the bottom, it shows the creation and modification dates: "Создан 20.09.2006 22:13:43" and "Изменен 21.09.2006 18:27:19". The dialog has "OK" and "Отмена" (Cancel) buttons at the bottom right.

Настройки отчета

Основные Наследование Описание

Описание

Имя

Автор

Описание This report demonstrates the ability to draw diagrams on the "Data" tab.

Картинка

Версия

Major  Minor  Release  Build

Создан 20.09.2006 22:13:43 Изменен 21.09.2006 18:27:19

## 1.6

**Настройки страницы** ✕

Страница Прочее


**Формат**

А4 ▼

Ширина  см

Высота  см

**Ориентация**

Портретная 

Альбомная

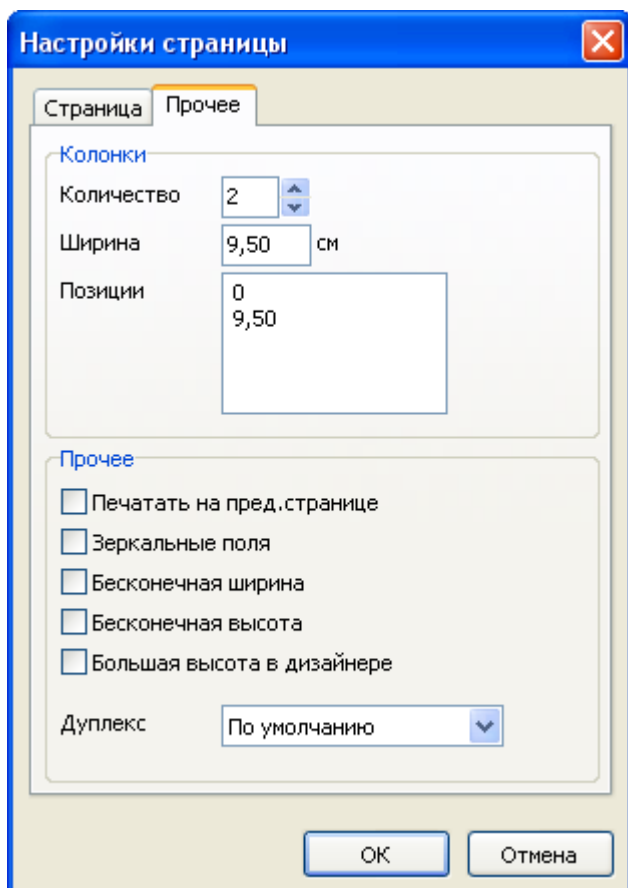
**Поля**

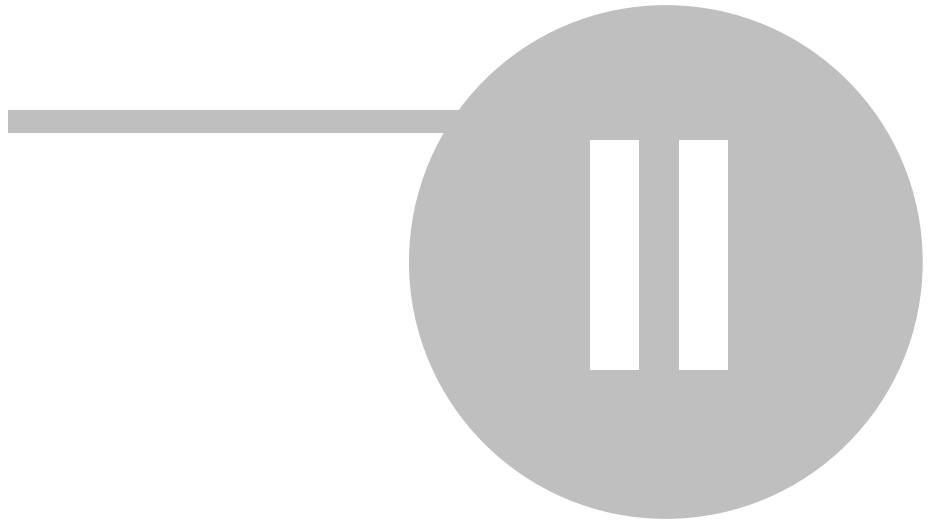
Левое	<input type="text" value="1"/> см	Правое	<input type="text" value="1"/> см
Верхнее	<input type="text" value="1"/> см	Нижнее	<input type="text" value="1"/> см

**Источник бумаги**

Для первой страницы  ▼

Для остальных  ▼





2.1

FastReport

( , )  
FastReport,

	<b>A</b>	
		BMP, JPEG, ICO, WMF, EMF.
	$\Sigma$	( , , )
		" " - , , .
		( , .).
RichText		Rich text (RTF).
-		
CheckBox		-
		( ).
OLE	<b>OLE</b>	OLE.

" " " " ' ,

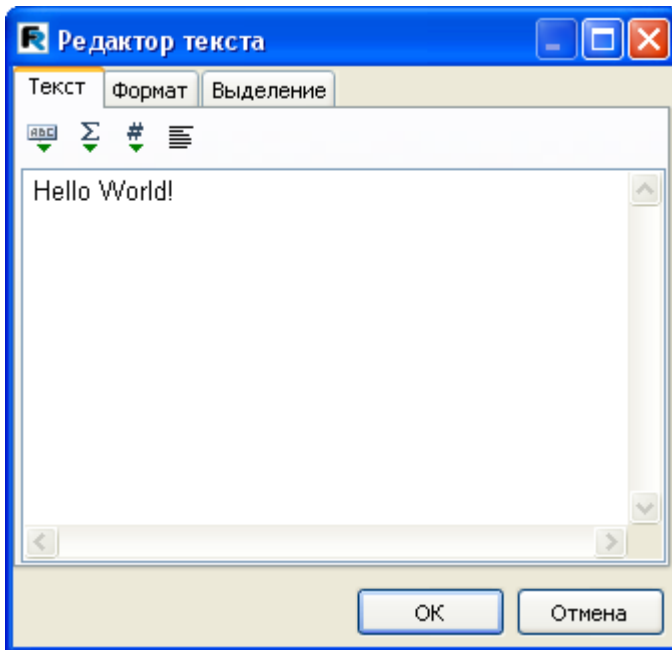
## 2.2 "Hello, World!"

"Hello, World!".

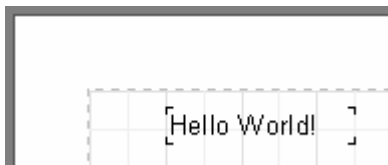
' FastReport.

" "

( ),



"Hello World!"



" | ",

"Hello World!".



### 2.3

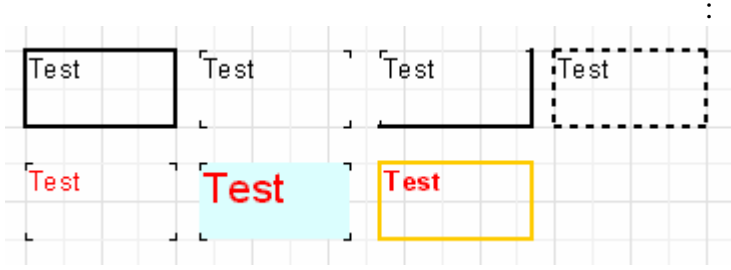
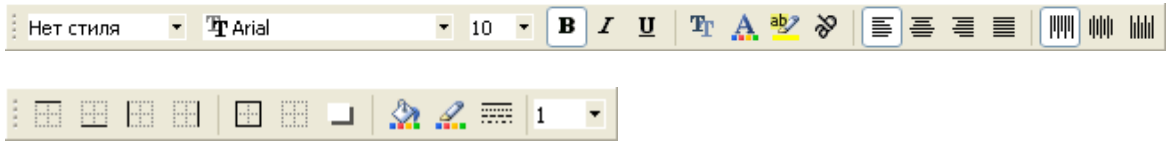
" "

" "

,

,

:



" "

2 :

,

,

,

3 .

5 .

9

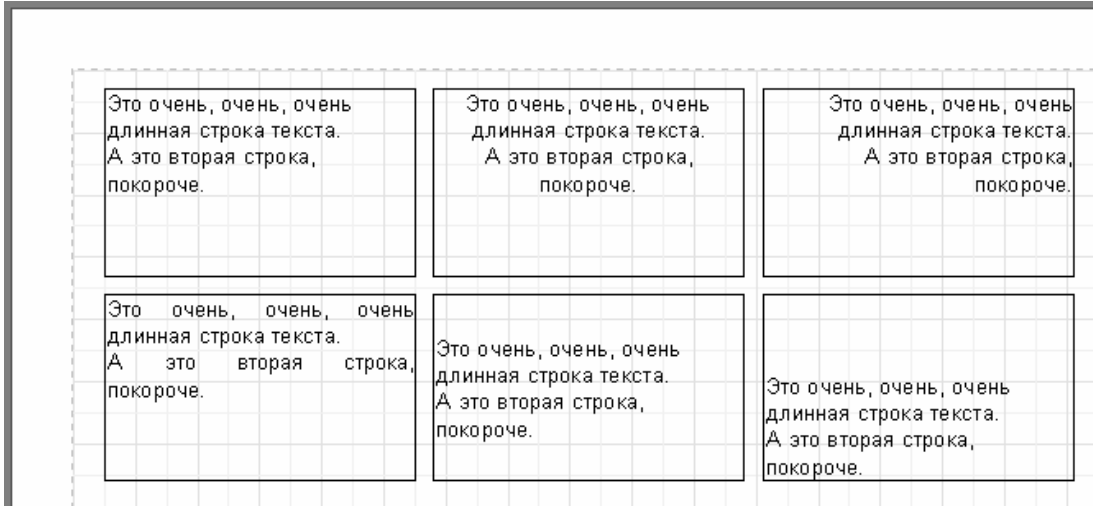
WordWrap, " )

" "

" "

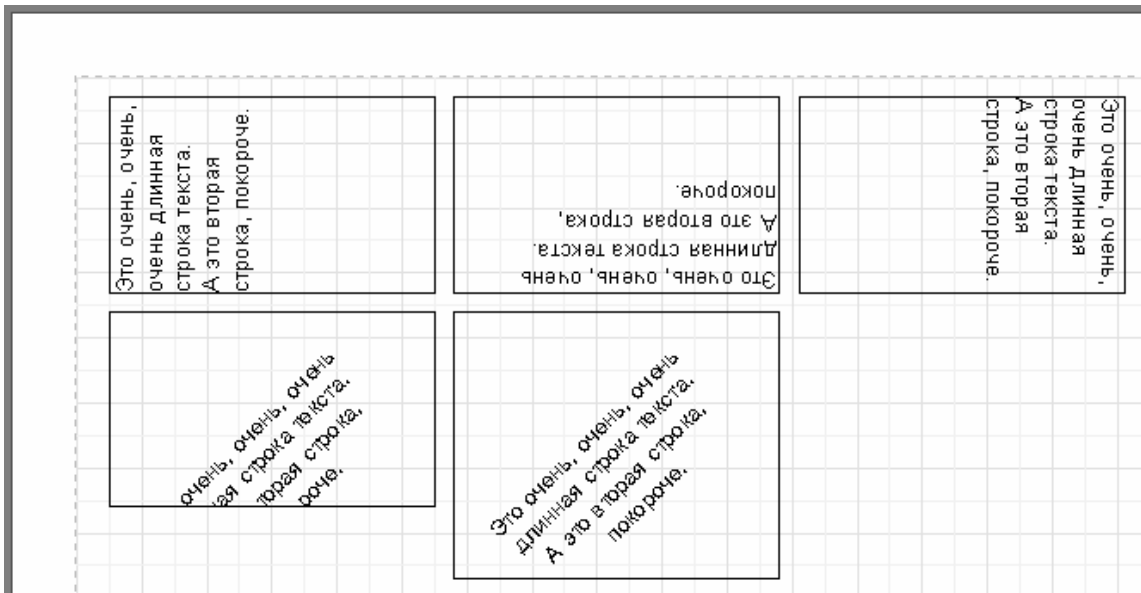
" "

" "



0..360

ab " " 45,  
 90, 180 270 .  
 , Rotation  
 90, 180, 270,  
 ( . ). ,



" "

- BrushStyle - ;
- CharSpacing - ;

- GapX, GapY - , ;
- LineSpacing - ;
- ParagraphGap - , .

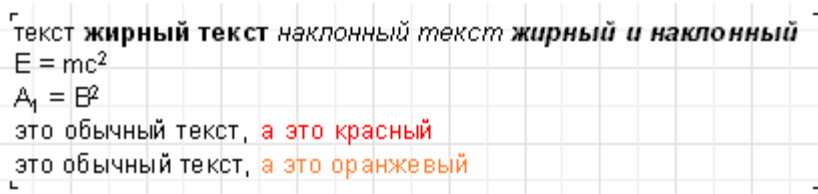
## 2.4 HTML-

HTML.  
 ;  
 "HTML  
 "AllowHTMLTags"  
 :

- <b> -
- <i> -
- <u> -
- <strike> -
- <sub> -
- <sup> -
- <font color> -
- <nowrap> -

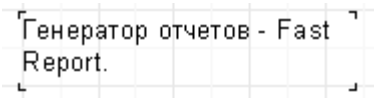
"WordWrap",

<b> </b> <i> </i> <b><i>  
 </b></i>  
 E = mc<sup>2</sup>  
 A<sub>1</sub> = B<sup>2</sup>  
 , <font color=red> </font>  
 , <font color="#FF8030"> </font>



<nowrap>.

- Fast Report.



- `<nowrap>Fast Report.</nowrap>`

```
Генератор отчетов -
Fast Report.
```

## 2.5

*Hello, World! Today is [DATE].*

*Hello, World! Today is 01.01.2004.*

*a[1] := 10*

FastReport [1] :

*a1 := 10*

AllowExpressions (" " ),

*a[1] := [myVar]*

ExpressionDelimiters, FastReport  
"["].

*a[1] := <myVar>*

ExpressionDelimiters "<>".

.. "%,%"  
"<%,%>".

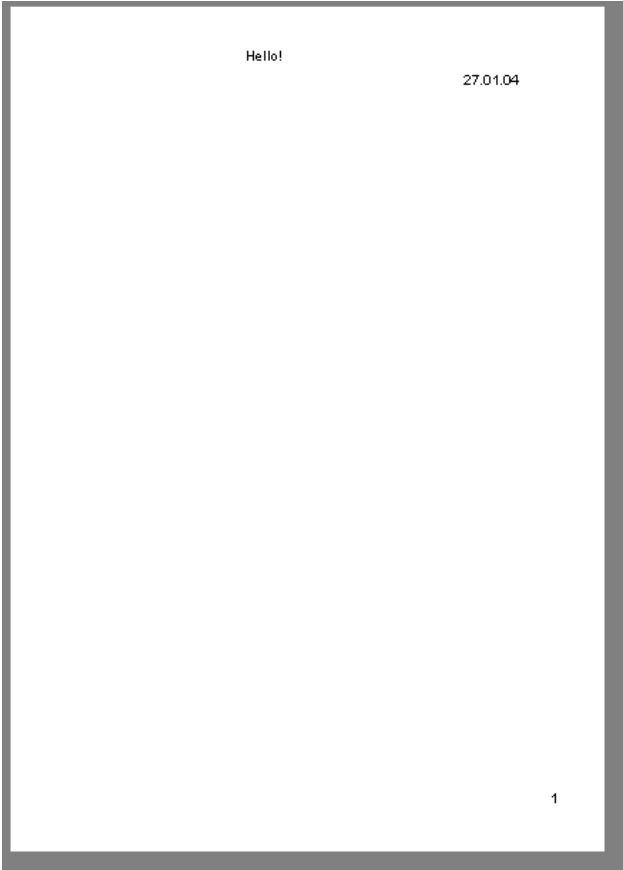
*a[1] := <%myVar%>*

## 2.6

" " (band) - " ".  
" ", FastReport,  
" "  
"Hello!"  
FastReport " "  
" ", " 1 " " "  
" 1 " - " "  
Delete "  
" "  
FastReport  
" "

```
"      "      "      "[DATE]"  
(      ,      "      "      "  
      "[DATE]").      "      "  
      "      "      "Hello!".      "  
      ,      ,      ,  
      .
```

<b>ReportTitle:</b> ReportTitle1
[Hello!]
<b>PageHeader:</b> PageHeader1
[DATE]
<b>PageFooter:</b> PageFooter1
[Page#]



```

    ,
    ,
    , . , .
    , :
-   "         "           ;
-   "         "           ;
-   "         "           ,
    "         " (
TitleBeforeHeader,           );
-   "         "
    ,

```

**2.7**

```

    -
    ,
    .
    (      ),
    (      ),
FastReport
    "      xxx    ".
    , - - .
    .

```

```



, :
- - ;
- - ;
- - " " ,
FastReport
,
,

```

## 2.8

### TfrxDBDataSet

```

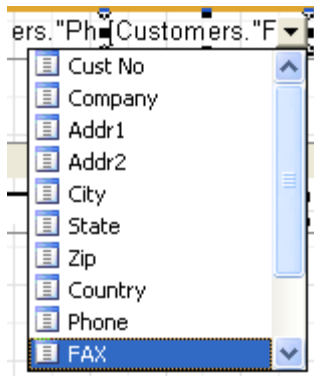
(
- TfrxDBDataSet 
FastReport.
FastReport.
FastReport - BDE, IB_Objects
. FastReport TDataSet),
(
, TfrxDBDataSet
, TDataSet ( BDE, ADO, IBX
). IB_Objects
TfrxIBODataSet,
( , .) - TfrxUserDataSet 
TfrxDBDataSet
DataSet (
) DataSource ( TDataSource).
TDataSource.
FastReport " | ..."

```









<b>ReportTitle:</b> ReportTitle1			
[ Список клиентов ]			
<b>MasterData:</b> MasterData1			frDBDataSet1
[frDBDataSet1]	[frDBDataSet1."Company"]	[frDBDataSet1."Pho"]	[frDBDataSet1."FAX"]
<b>PageFooter:</b> PageFooter1			
			[Page#]

Список клиентов			
1221	Kauai Dive Shoppe	808-555-0269	808-555-0278
1231	Unisco	809-555-3915	809-555-4958
1351	Sight Diver	357-6-876708	357-6-870943
1354	Cayman Divers World Unlimited	011-5-697044	011-5-697064
1356	Tom Sawyer Diving Centre	504-798-3022	504-798-7772
1380	Blue Jack Aqua Center	401-609-7623	401-609-9403
1384	VIP Divers Club	809-453-5976	809-453-5932
1510	Ocean Paradise	808-555-8231	808-555-8450
1513	Fantastique Aquatica	057-1-773434	057-1-773421
1551	Marmot Divers Club	416-698-0399	426-698-0399
1560	The Depth Charge	800-555-3798	800-555-0353
1563	Blue Sports	610-772-6704	610-772-6898
1624	Makai SCUBA Club	317-649-9098	317-649-6787
1645	Action Club	813-870-0239	813-870-0282
1651	Jamaica SCUBA Centre	011-3-697043	011-3-697043
1680	Island Finders	713-423-5675	713-423-5676

## 2.10

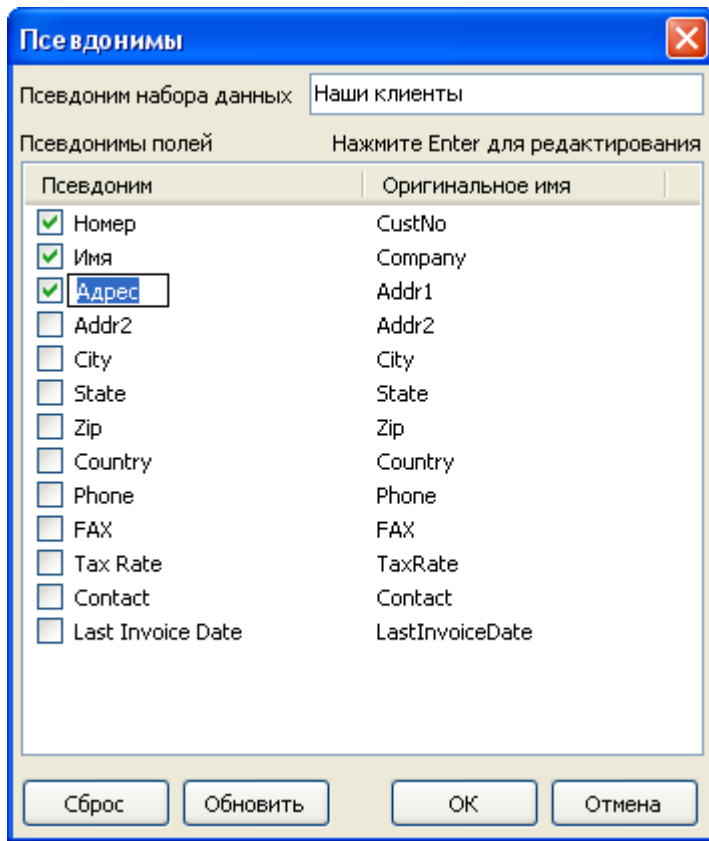
```

        , " " ,
    ,
    :
        DataSet, DataField.
    , -
    . :
        : [frxDBDataSet1."Contact_Person"]
    , :
    - - " - " ,
    .
    - :
        : [<frxDBDataSet1."Length_in"> * 2.54]
    ,
    ,
    " " ( ."
    ").
        FastReport
    : [<frxDBDataSet1."Contact_Person">]
    : [frxDBDataSet1."Contact_Person"]
    , . . FastReport
    , /
    :
        : [<frxDBDataSet1."Length_in"> * 2.54]

```

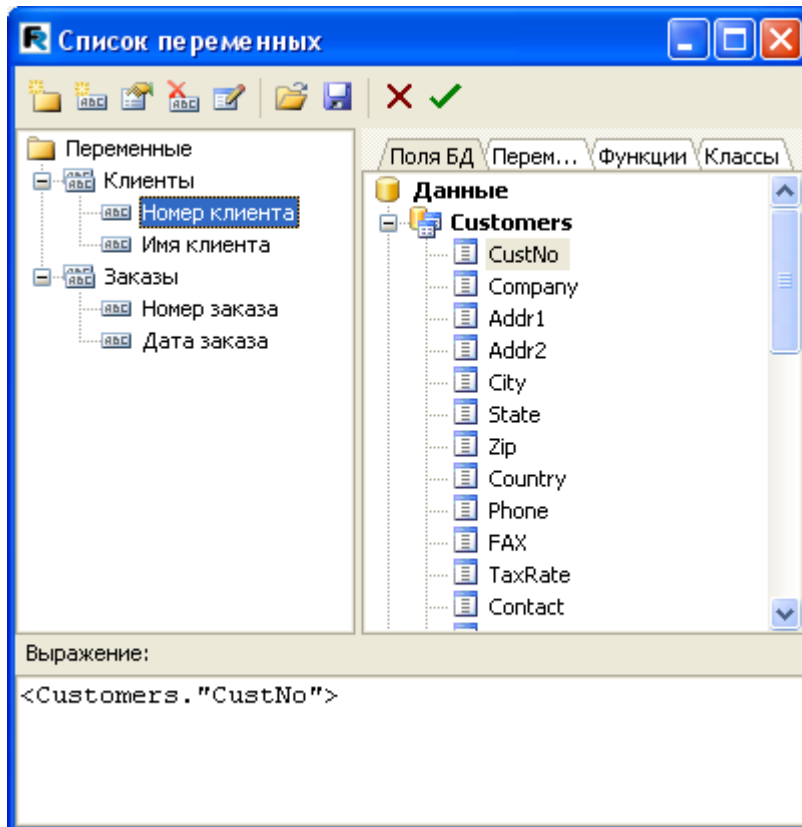
## 2.11

frxDBDataSet1 CustNo, Company, Phone, FAX.  
"[frxDBDataSet1."CustNo"]".  
FastReport.  
Delphi.  
FastReport frxDBDataSet1,



frxDBDataSet1. UserName

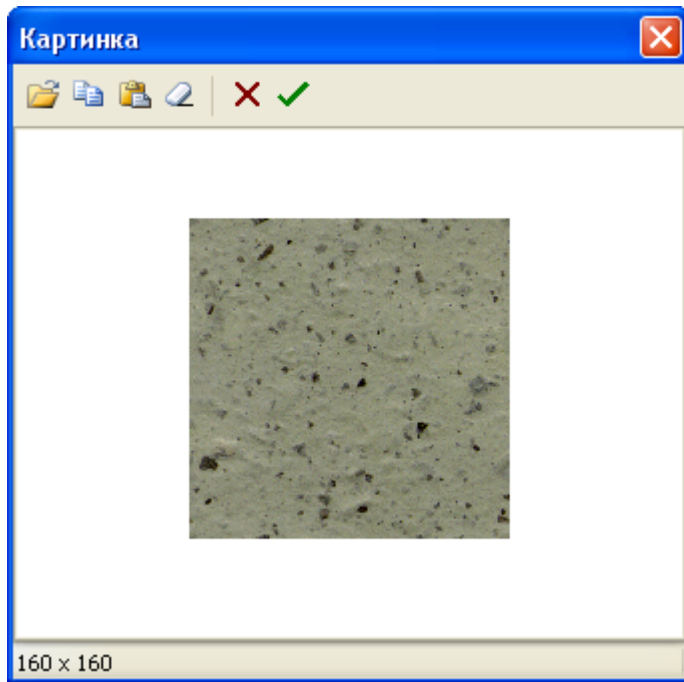




## 2.13

JPEG, ICO, WMF, EMF.

BMP,



- (AutoSize)
- (Stretch) -
- (Center)
- (KeepAspectRatio) -

```

" " ,
,
,
" " ,
,
" " ,
,
" " ,
:
" "

```



```
        - FileLink,
        : c:\picture.bmp.
FastReport ( [picture_file]. )
```

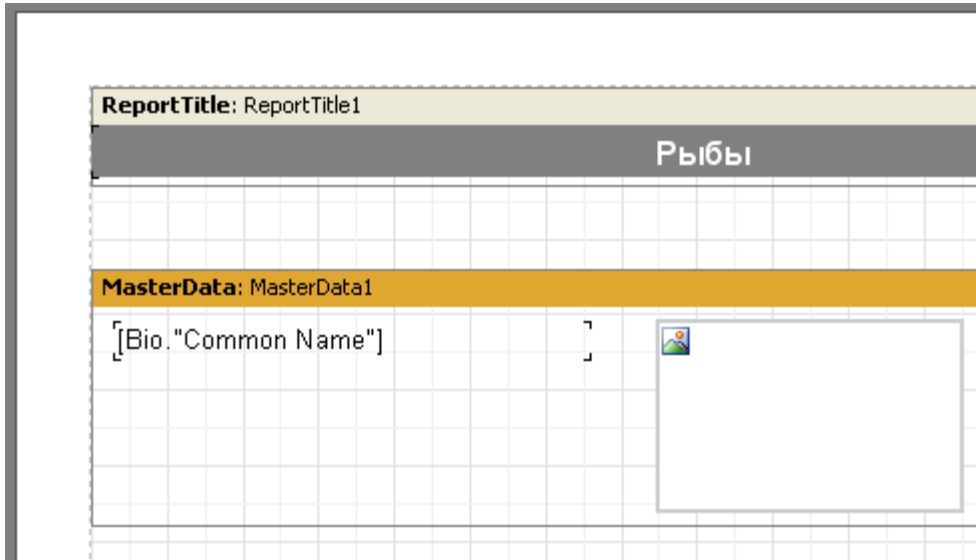
2.14

```
" ";
FastReport,
DataSet, DataField
" ";
Delphi. DBDEMOS,
Delphi. TTable
:
DatabaseName = 'DBDEMOS'
TableName = 'Biolife.db'
TfrxDBDataSet : FastReport,
DataSet = Table1
UserName = 'Bio'
TfrxReport.
FastReport
" | ...".
" " " " " 1 " "
( "Bio" ). " "
3 , "CommonName",
```

"Graphic".

*DataSet = Bio*  
*DataField = 'Graphic'*

4 2.5 .



, ( . ):



2.15

Biolife

"Notes",

"Notes"

" " - 8 2.5 "

РЫБЫ	
Clown Triggerfish	Also known as the big spotted triggerfish. Inhabits outer reef areas and feeds upon crustaceans and mollusks by crushing them with powerful teeth. They are voracious eaters, and divers report seeing the clown triggerfish devour beds of pearl oysters.
Red Emperor	Called seaperch in Australia. Inhabits the areas around lagoon coral reefs and sandy bottoms.  The red emperor is a valuable food fish and considered a great sporting fish that fights with fury when hooked. The flesh of an old fish is just as



"Notes", FastReport

"Notes"

" "

?

FastReport

" (Stretch).

" (AutoWidth) "

" (StretchMode).

" "

smDontStretch -  
 smActualHeight -  
 smMaxHeight -

smActualHeight.

StretchMode =

## Рыбы

### Clown Triggerfish

Also known as the big spotted triggerfish. Inhabits outer reef areas and feeds upon crustaceans and mollusks by crushing them with powerful teeth. They are voracious eaters, and divers report seeing the clown triggerfish devour beds of pearl oysters.



Do not eat this fish. According to an 1878 account, "the poisonous flesh acts primarily upon the nervous tissue of the stomach, occasioning violent spasms of that organ, and shortly afterwards all the muscles of the body. The frame becomes rocked with spasms, the tongue thickened, the eye fixed, the breathing laborious, and the patient expires in a paroxysm of extreme suffering."

Not edible.

### Red Emperor

Range is Indo-Pacific and East Africa to Somoa.

Called seaperch in Australia. Inhabits the areas around lagoon coral reefs and sandy bottoms.

The red emperor is a valuable food fish and considered a great sporting fish that fights with fury when hooked. The flesh of an old fish is just as tender to eat as that of the very young.



### Giant Maori Wrasse

Range is from the Indo-Pacific to East Africa.

This is the largest of all the wrasse. It is found in



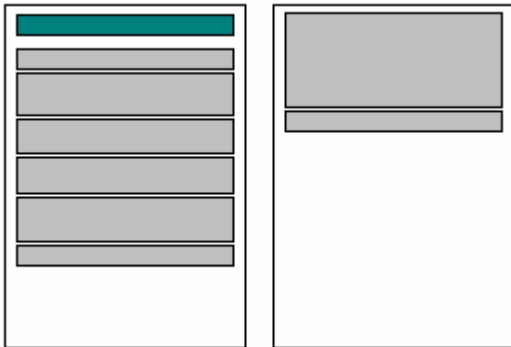
FastReport

## 2.16

FastReport

FastReport

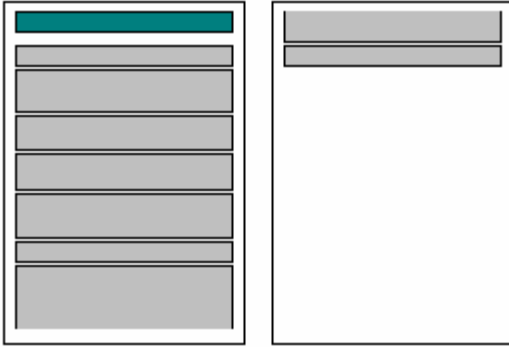
FastReport



FastReport

" (AllowSplit)

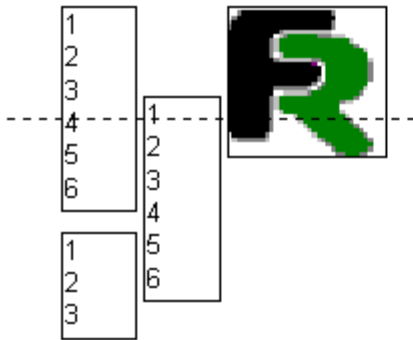
1



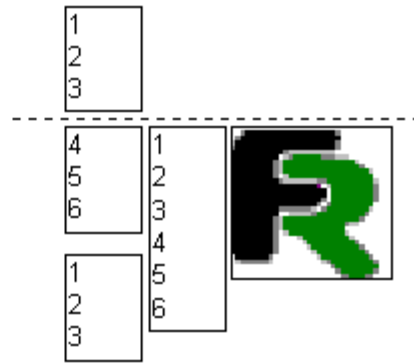
```

? FastReport
" ", " ", "RichEdit".
FastReport
:
- ;
- ( );
- ;
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- ;
- ;
.
, :
    
```

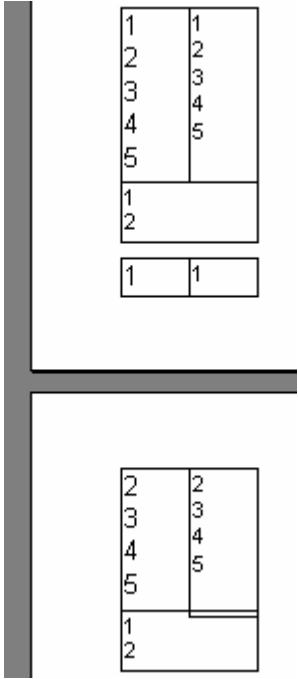
До разрыва:



После разрыва:



100%



2.17

FastReport ( ) .  
" " ( )  
:

ReportTitle: ReportTitle1

РЫБЫ

MasterData: MasterData1

[Bio. "Common Name"]

[Bio. "Notes"]

[ ]

Bio."Notes"

Bio."Notes"

Bio."Notes"  
FlowTo.

## РЫБЫ

**Clown Triggerfish**

Also known as the big spotted triggerfish. Inhabits outer reef areas and feeds upon crustaceans and mollusks by crushing them with powerful teeth. They are voracious eaters, and divers report seeing the clown triggerfish devour beds of pearl oysters.



Do not eat this fish. According to an 1878 account, "the poisonous flesh acts primarily upon the nervous tissue of the stomach, occasioning violent spasms of that organ, and shortly afterwards all the muscles of the body. The frame becomes rocked with spasms, the tongue thickened, the eye fixed, the breathing laborious, and the patient expires in a paroxysm of extreme suffering."

Not edible.

Range is Indo-Pacific and East Africa to Somoa.

**2.18**

FastReport,



:

MasterData: MasterData1		
[Bio."Specie"]	[Bio."Common Name"]	[Bio."Length"]

,

.

-

:

90020	Clown Triggerfish	50
90030	Red Emperor	60
90050	Giant Maori Wrasse	229
90070	Blue Angelfish	30
90080	Lunartail Rockcod	80

-

-

,

.

90020	Clown Triggerfish	50
90030	Red Emperor	60
90050	Giant Maori Wrasse	229
90070	Blue Angelfish	30
90080	Lunartail Rockcod	80

,

:

,

**PageHeader:** PageHeader1

**MasterData:** MasterData1

[Bio."Specie" [Bio."Common Name" [Bio."Length]

**ReportSummary:** ReportSummary1

90020	Clown Triggerfish	50
90030	Red Emperor	60
90050	Giant Maori Wrasse	229
90070	Blue Angelfish	30
90080	Lunartail Rockcod	80
90090	Firefish	38
90100	Ornate Butterflyfish	19
90110	Swell Shark	102
90120	Bat Ray	56
90130	California Moray	150
90140	Lingcod	150
90150	Cabezon	99
90160	Atlantic Spadefish	90
90170	Nurse Shark	400
90180	Spotted Eagle Ray	200
90190	Yellowtail Snapper	75
90200	Redband Parrotfish	28
90210	Great Barracuda	150
90220	French Grunt	30
90230	Dog Snapper	90
90240	Nassau Grouper	91
90250	Bluehead Wrasse	15
90260	Yellow Jack	90
90270	Redtail Surfperch	40
90280	White Sea Bass	150
90290	Rock Greenling	60
90300	Senorita	25
90310	Surf Smelt	25

Bio.Notes.

90020	Clown Triggerfish	50	Also known as the big spotted triggerfish. Inhabits outer reef areas and feeds upon crustaceans and mollusks by crushing them with powerful teeth. They are voracious eaters, and divers report seeing the clown triggerfish devour beds of pearl oysters.  Do not eat this fish. According to an 1878 account, "the poisonous flesh acts primarily upon the nervous tissue of the stomach, occasioning violent spasms of that organ, and shortly afterwards all the muscles of the body. The frame becomes rocked with spasms, the tongue thickened, the eye fixed, the breathing laborious, and the patient expires in a paroxysm of extreme suffering."  Not edible.  Range is Indo-Pacific and East Africa to Somoa.
90030	Red Emperor	60	Called seaperch in Australia. Inhabits the areas around lagoon coral reefs and sandy bottoms.  The red emperor is a valuable food fish and

. FastReport

smMaxHeight

" ( StretchMode = FastReport

90020	Clown Triggerfish	50	<p>Also known as the big spotted triggerfish. Inhabits outer reef areas and feeds upon crustaceans and mollusks by crushing them with powerful teeth. They are voracious eaters, and divers report seeing the clown triggerfish devour beds of pearl oysters.</p> <p>Do not eat this fish. According to an 1878 account, "the poisonous flesh acts primarily upon the nervous tissue of the stomach, occasioning violent spasms of that organ, and shortly afterwards all the muscles of the body. The frame becomes rocked with spasms, the tongue thickened, the eye fixed, the breathing laborious, and the patient expires in a paroxysm of extreme suffering."</p> <p>Not edible.</p> <p>Range is Indo-Pacific and East Africa to Somoa.</p>
90030	Red Emperor	60	<p>Called seaperch in Australia. Inhabits the areas around lagoon coral reefs and sandy bottoms.</p>

## 2.19

MasterData: MasterData1	
Номер:	[Bio."Specie"]
Категория:	[Bio."Category"]
Название:	[Bio."Common Name"]
Длина:	[Bio."Length"]

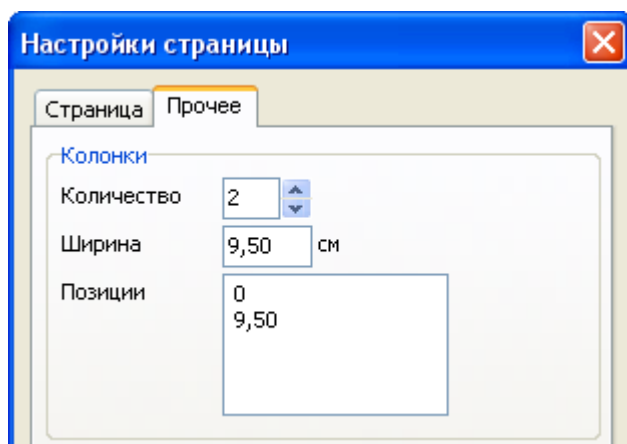
---

Номер:	90020
Категория:	Triggerfish
Название:	Clown Triggerfish
Длина:	50

---

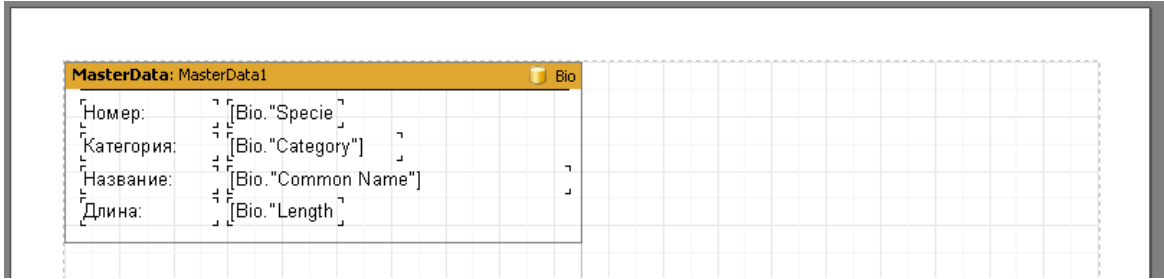
Номер:	90030
Категория:	Snapper
Название:	Red Emperor
Длина:	60

---



FastReport

= 2,



. FastReport

FastReport

Номер:	90020	Номер:	90130
Категория:	Triggerfish	Категория:	Eel
Название:	Clown Triggerfish	Название:	California Moray
Длина:	50	Длина:	150
Номер:	90030	Номер:	90140
Категория:	Snapper	Категория:	Cod
Название:	Red Emperor	Название:	Lingcod
Длина:	60	Длина:	150

Columns

1) 2) Columns . FastReport  
 ColumnWidth ( ) =

MasterData: MasterData1		Bio
Номер:	[Bio."Specie"]	
Категория:	[Bio."Category"]	
Название:	[Bio."Common Name"]	
Длина:	[Bio."Length"]	

### 2.20 Child-

```

,
"
,
"
Bio."Common Name" 2.5
"
1
"
:

```

Номер:	90020
Категория:	Triggerfish
Название:	Clown
Длина, см:	Triggerfish
	50
Номер:	90030
Категория:	Snapper
Название:	Red Emperor
Длина, см:	60

```

Bio."Length (cm)",
" ( ShiftMode = smAlways
).
( " " " " ").

```

" , : " FastReport

Child-

MasterData: MasterData1	
Номер:	[Bio."Specie
Категория:	[Bio."Category"]
Название:	[Bio."Comm
Child: Child1	
Длина:	[Bio."Length

Child = Child1.

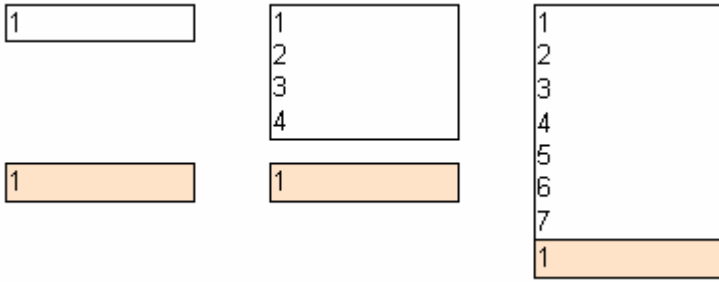
Номер:	90020
Категория:	Triggerfish
Название:	Clown Triggerfish
Длина:	50

(KeepChild child- "child")

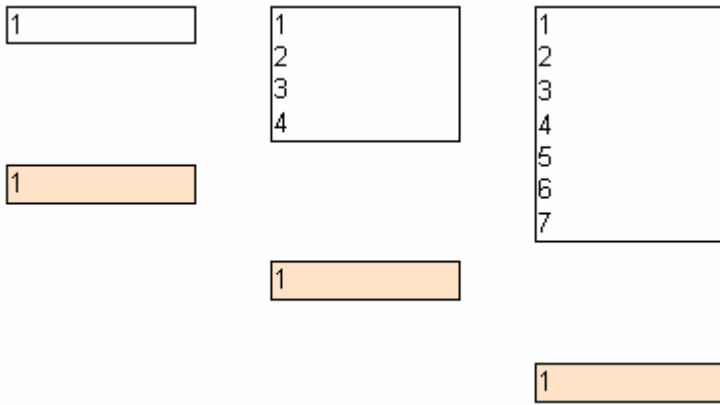
## 2.21

ShiftMode = smWhenOverlapped.

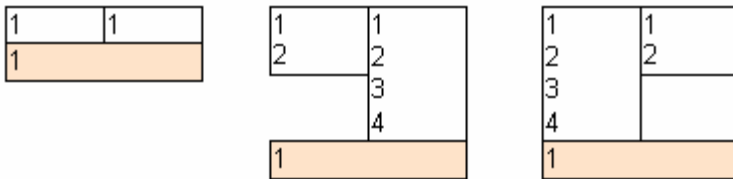




: " "



“ ” , . , , : , , .



“ ” , . , .

## 2.22

## (master-detail)

- " 1 ".  
 . FastReport  
 ( , " , " , 6 ).  
 ; , 1-3 .  
 Customer Orders. - , -  
 , . :

**Customer:**

<u>CustNo</u>	<u>Company</u>
1221	Kauai Dive Shoppe
1231	Unisco
1351	Sight Diver
....	

**Orders:**

<u>OrderNo</u>	<u>CustNo</u>	<u>SaleDate</u>
1003	1351	12.04.1988
1023	1221	01.07.1988
1052	1351	06.01.1989
1055	1351	04.02.1989
1060	1231	28.02.1989
1123	1221	24.08.1993
....		

, , ,  
 . , , CustNo = ,  
 , ,  
 :

1221	Kauai Dive Shoppe
1023	01.07.1988
1123	24.08.1993
1231	Unisco
1060	28.02.1989
1351	Sight Diver
1003	12.04.1988

1052 06.01.1989  
1055 04.02.1989

TfrxDBDataSet TTable, TDataSource, Delphi,  
TfrxReport.

Table1:  
DatabaseName = 'DBDEMOS'  
TableName = 'Customer.db'

Table2:  
DatabaseName = 'DBDEMOS'  
TableName = 'Orders.db'

DataSource1:  
DataSet = Table1

frxDBDataSet1:  
DataSet = Table1  
UserName = 'Customers'

frxDBDataSet2:  
DataSet = Table2  
UserName = 'Orders'

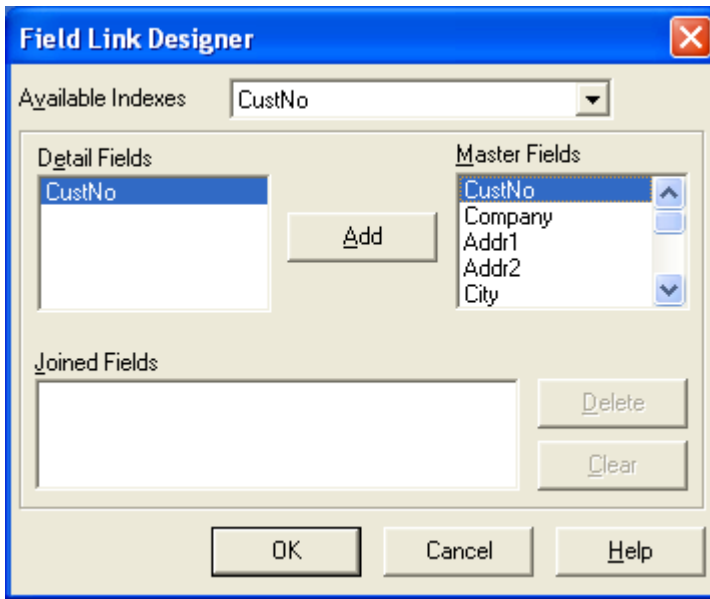
" | ...". " 1 " " 2  
":

<b>MasterData:</b> MasterData1		Customers
[Customers."Cust No"]	[Customers."Company"]	
<b>DetailData:</b> DetailData1		Orders
[Orders."Cust No"]	[Orders."Order No"]	[Orders."Sale Date"]

- " 1 " !  
" 2 ", FastReport  
Orders.  
Orders.  
Table2 MasterSource =  
DataSource1. " - "

MasterFields

Table2:

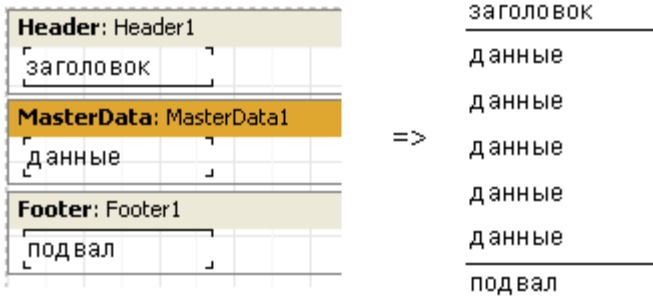


CustNo CustNo "Add".

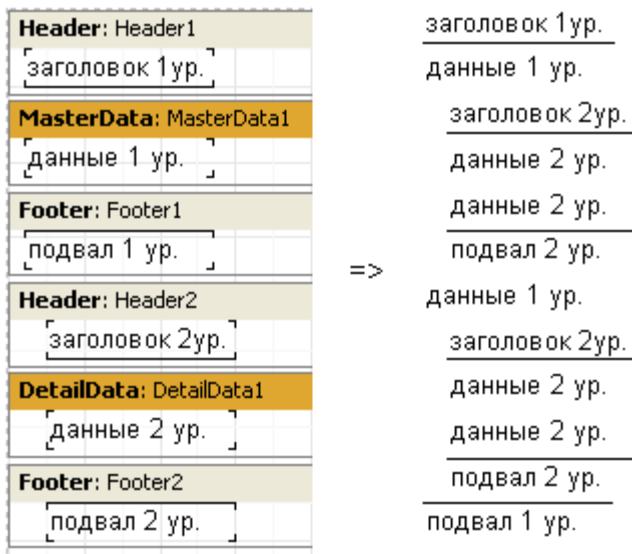
FastReport  
(Customer),  
(Orders).  
Orders.CustNo = Customer.CustNo. . .  
:

<b>1645</b>	<b>Action Club</b>	
1645	1014	25.05.1988
1645	1029	18.07.1988
1645	1038	26.08.1988
1645	1129	19.10.1993
<b>3158</b>	<b>Action Diver Supply</b>	
3158	1039	29.08.1988
<b>1984</b>	<b>Adventure Undersea</b>	
1984	1017	12.06.1988
1984	1037	26.08.1988
1984	1074	19.04.1989

### 2.23



master-detail:



" 1 " ,  
 " 2 " - " ,  
 " 1 " ,

FooterAfterEach (

```

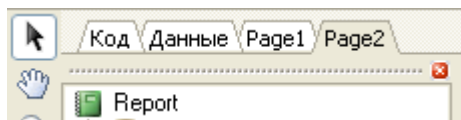
"Footer
"),
master-detail.
FooterAfterEach : " 1 "

заголовок 1ур.
даные 1 ур.
заголовок 2ур.
даные 2 ур.
даные 2 ур.
подвал 2 ур.
подвал 1 ур.
даные 1 ур.
заголовок 2ур.
даные 2 ур.
даные 2 ур.
подвал 2 ур.
подвал 1 ур.

```

## 2.24

### FastReport



(drag&drop),

Page2

- Новая страница
- Новая форма
- Удалить страницу
- Настройки страницы...

Наш отчет

Customers				
Company	Address	Contact	Phone	Fax
Action Club	PO Box 6481-P	Michael Spurling	813-870-0230	813-870-0282
Action Diver Supply	Blue Spar Box 83	Melenna Miles	23-44-800-211	23-44-800-898
Adventure Undersea	PO Box 744	Gloria Gonzalez	011-34-00-054	011-34-00-054
American SCUBA Supply	1739 Atlantic Avenue	Lynn Cincinnati	213-854-0062	213-854-0066
Aquatic Diving	921 Everglades Way	Gillian Oren	813-442-7854	813-442-7878
Blue Ocean Equipment	6345 W. Shores Lane	Christina Taylor	213-855-1884	213-855-1566
Blue Jack Aqua Center	23-7511 Reddington Lane	Ernest Barnek	401-859-7423	401-859-8403
Blue Sports	203 12th Ave. Box 746	Theresa Kuncic	810-772-6704	810-772-6388
Blue Sports Club	63998 Naz Ranco Street	Henry Balthans	812-807-0342	812-807-0348
Calamian Dive Club	Box 294 Pleasants Point	Nicole Dupont	213-223-0941	213-223-2324
Cayanan Divers World Unlimited	PO Box 541	Jas Bailey	011-5-897044	011-5-897054
Central Underwater Supplies	PO Box 737	Maria Evertash	27-13-443-246	27-13-443-3259
Dive Jamar Lodge	248 South 18th Place	Tanya Wilgner	803-699-0112	803-699-0383
Dive's Grotto	24801 Universal Lane	Peter Oren	213-832-0063	213-832-4821
Divers of Blue-green	634 Complex Ave.	Nancy Bean	205-855-7184	205-855-8059
Divers of Corfu, Inc.	Wiermoat Place 54	Charles Lopez	30-951-83394	30-951-85943
Divers of Varos	220 Elm Street	Simona Green	813-443-2399	813-443-9342
Divers-for-Hire	G.O. P Box 61	Jas Hektor	879-804-878	879-899-346
Florida's Aquatics	232 669 #5A-77 A.A.	Susan Wong	887-1-773-434	887-1-773-421
Fluorimeter's Eye	PO Box 7542	Bethan Lewis	803-855-4880	803-855-4880
Frank's Divers Supply	1485 North 44th St.	Lloyd Fulvous	803-855-2778	803-855-2766
George Bean & Co.	#73 King Salmon Way	Bill Wyers	803-433-2771	803-433-3003
Gold Coast Supply	225-B Houston Place	Elaine Falls	205-855-2940	205-855-4094
Island Finders	6133 1/2 Stone Avenue	Diamond Ortega	713-423-6876	713-423-6876
Jamaica SCUBA Centre	PO Box 88	Barbara Harvey	011-3-897043	011-3-897043
Jamaica Sun, Inc.	PO Box 543	Jonathan West	809-855-2746	809-855-0323
Kauai Dive Shops	4378 Superstief Hwy	Erica Norman	808-855-0280	808-855-0278
Ki's Enterprises	42 Aqua Lane	Rudolph Claus	713-895-6437	713-895-1073
Larry's Diving School	3992 NW Buca Street	Iskell e Nassos	803-403-7777	803-403-0059
Makal SCUBA Club	PO Box 8834	Danna Skies	317-846-0068	317-846-8787
Melina SCUBA Center	PO Box 82433 Zulu 7831	Stephan Boyert	88-33-881222	88-33-881040
Milner's Divers Club	872 Queen St.	Joyce Marsh	416-895-0369	416-895-0369
Napua's Trident Supply	PO Box 128	Louise Francis	778-897-3546	778-897-6943
Nonsantier SCUBA Limited	PO Box 8354	Angela Jones	778-123-1746	778-123-2765
Ocean Adventurism	PO Box 488 Kihul	Paul Sell	778-893-0234	778-893-8383
Ocean Paradise	PO Box 8748	Paul Gardner	809-855-8231	809-855-8480
On-TARGET SCUBA	7-737 83 Naniakawa Road	Brian Phillips	416-448-0283	416-448-0223
Princess Island SCUBA	PO Box 32 Waikevo	Anne Mielachi	879-3111623	879-3111203
Professional Divers, Ltd.	4794 Malinda St.	Shirley Michens	205-855-8333	205-855-4054
Starfish Under the Sea	PO Box 7485	Anne Pack	809-402-4233	809-403-3002
San Pablo Dive Center	1701-D N Broadway	Patricia O'Brien	825-344-2110	825-344-2160
SCUBA Heaven	PO Box O-3874	Robert Michalant	011-32-09-485	011-32-09-485
Shang-La Sports Center	PO Box O-6466	Frank Pariquea	011-32-08-874	011-32-04-628
Sight Diver	1 Napua Lane	Phyllis Spooner	387-8-878703	387-8-870943
The Depth Charge	18243 Underwater Hwy.	Sam Witherspoon	800-855-3768	800-855-0383
The Diving Company	PO Box 8235	Brian Miles	22-44-80-088	22-44-80-878
Tam Sawyer Diving Centre	685-7 The # Pfydshej	Chris Thomas	804-765-3022	804-765-7772
Tona Tona Tona	PO Box 1-487a	Kovsh Rider	809-888-0043	809-888-0384
Underwater Fantasy	PO Box 842	Gwen Atkinson	809-855-2214	809-855-2294

Page 2 of 2

PrintToPreviousPage

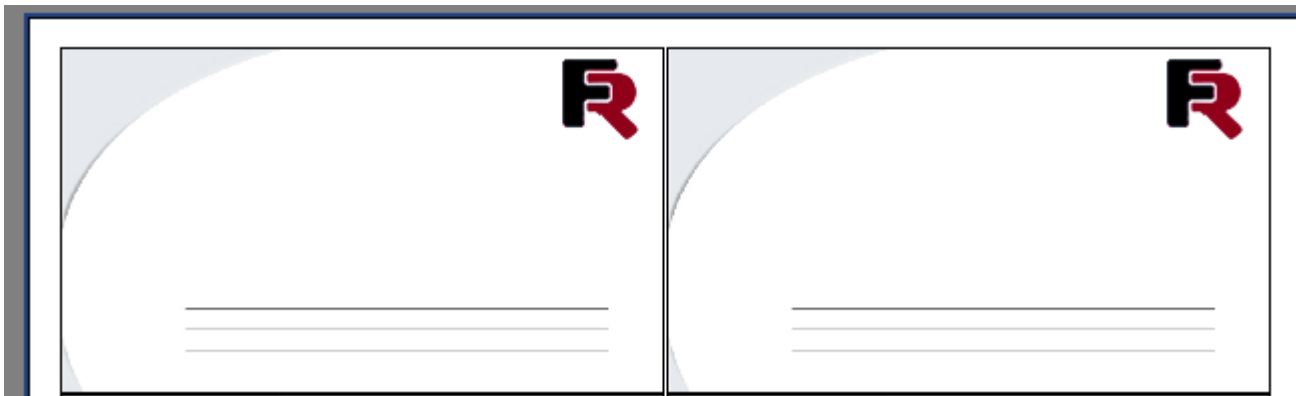
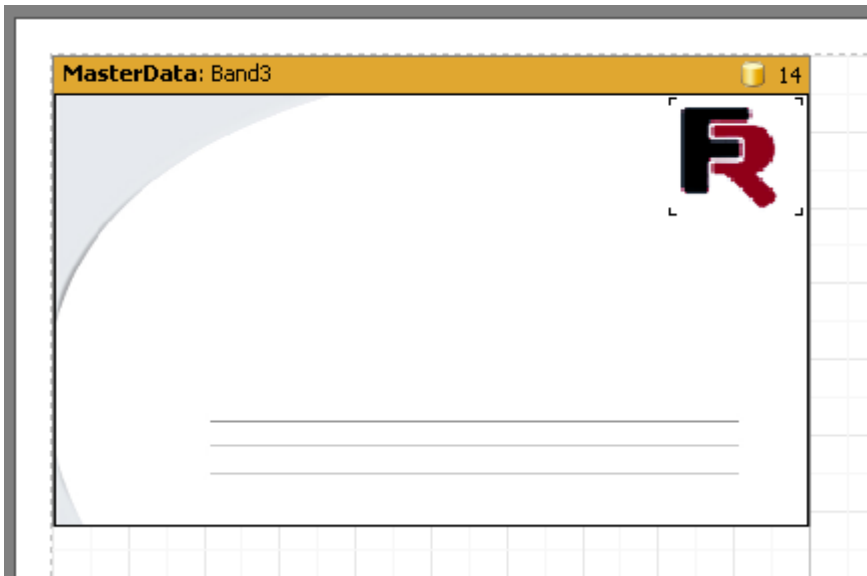
" "

### 2.25

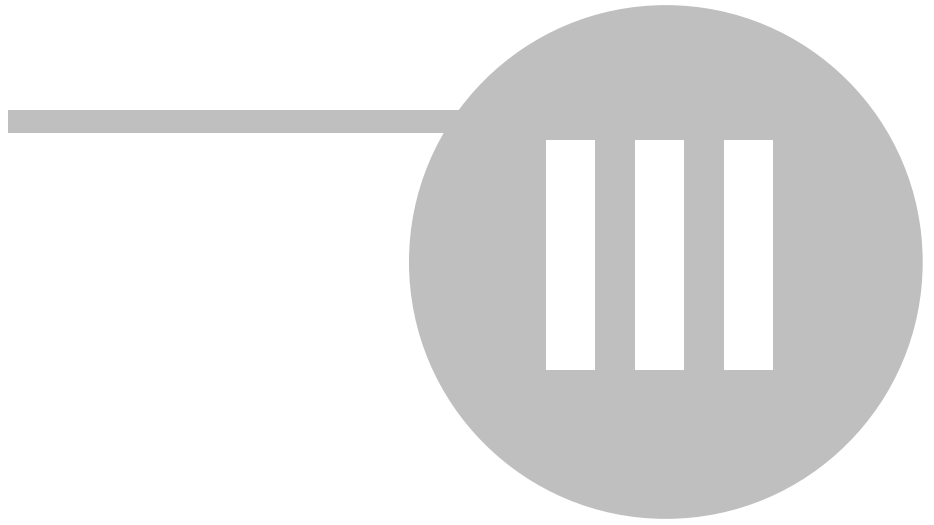
### RowCount PageCount

RowCount, PageCount.  
/

14, 14 RowCount







,

## 3.1

```

        . FastReport
        ,
        .
        SQL,
        ,
        CustNo
        . SQL-
        :

select * from customer, orders
where orders.CustNo = customer.CustNo
order by customer.CustNo

        "order by"
        CustNo.
        :

CustNo    Company    ...    OrderNo    SaleDate
1221      Kauai Dive Shoppe    1023    01.07.1988
1221      Kauai Dive Shoppe    1123    24.08.1993
1231      Unisco                1060    28.02.1989
1351      Sight Diver           1003    12.04.1988
1351      Sight Diver           1052    06.01.1989
1351      Sight Diver           1055    04.02.1989

        ? FastReport
        - "
        "
        (
        ),
        .

        Delphi,
        TQuery,

TfrxReport, TfrxDBDataSet.
:

Query1:
DatabaseName = 'DBDEMOS'
SQL =
    select * from customer, orders
    where orders.CustNo = customer.CustNo
    order by customer.CustNo

frxDBDataSet1:
DataSet = Query1
UserName = 'Group'

```

Group.CustNo:

**Группа**

Условие

Поле БД

Group CustNo

Выражение

Свойства

Выводить группу на одной странице

Формировать новую страницу

Показывать в дереве отчета

Разворачиваемый

Сбрасывать номер страницы

OK Отмена

Group

<b>GroupHeader:</b> GroupHeader1	Group."CustNo"
[Group."CustNo"] [Group."Company"]	
<b>MasterData:</b> MasterData1	Group
[Group."OrderNo"] [Group."SaleDate"]	

1221	Kauai Dive Shoppe
1076	16.12.1994
1123	24.08.1993
1169	06.07.1994
1176	26.07.1994
1269	16.12.1994
1023	01.07.1988
1231	Unisco
1160	01.06.1994
1302	16.01.1995

master-detail,

SQL:

```
select * from customer, orders
where orders.CustNo = customer.CustNo
order by customer.CustNo, orders.OrderNo
```

master-detail:

```
- ( ) ;
- ;
- ;
- -
```

SQL

SQL.

### 3.2

1380	Blue Jack Aqua Center
1006	06.11.1994
1079	03.05.1989
1106	23.09.1992
1153	16.04.1994
1253	26.11.1994
1384	VIP Divers Club
1124	01.09.1993
1207	11.11.1994

, ,  
, FastReport  
(  
) , " "  
) " ( " "  
) ReprintOnNewPage  
:

1380	Blue Jack Aqua Center
1006	06.11.1994
1079	03.05.1989

1106	23.09.1992
1153	16.04.1994
1253	26.11.1994

1384	VIP Divers Club
1124	01.09.1993
1207	11.11.1994

), " " ( KeepTogether  
) , :  
.:

1356	Tom Sawyer Diving Centre
------	--------------------------

1105	21.07.1992
1305	20.01.1995
1280	26.12.1994
1180	06.08.1994
1080	05.05.1989
1072	11.04.1989
1059	24.02.1989
1005	20.04.1988
1266	15.12.1994

1380	Blue Jack Aqua Center
------	-----------------------

1006	06.11.1994
------	------------

" (StartNewPage)

### 3.3

" ResetPageNumbers ( " ) , ?

, 50, 51, 52 (

49

```

?)
ResetPageNumbers
StartNewPage ("
[Page], [TotalPages],
"
```

### 3.4 (drill-down)

```

DrillDown ( "
ShowFooterIfDrillDown).
:
```

Customers				
Company	Address	Contact	Phone	Fax
<b>A</b>				
<b>B</b>				
<b>C</b>				
Catamaran Dive Club	Box 264 Pleasure Point	Nicole Dupont	213-223-0941	213-223-2324
Cayman Divers World Unlimited	PO Box 541	Joe Bailey	011-5-697044	011-5-697064
Central Underwater Supplies	PO Box 737	Maria Eventosh	27-11-4432458	27-11-4433259
				Count: 3
<b>D</b>				
<b>F</b>				

```

ExpandDrillDown.
True.
"
```



### 3.5

( [Line] N / ). ( " " ) drag&drop  
 " " ( " ").

GroupHeader: GroupHeader1		
[Line]	[Group."CustNo"]	[Group."Company"]
MasterData: MasterData1		
[Line]	[Group."OrderNo"]	[Group."SaleDate"]

<b>1</b>	<b>1221</b>	<b>Kauai Dive Shoppe</b>
1	1076	16.12.1994
2	1123	24.08.1993
3	1169	06.07.1994
4	1176	26.07.1994
5	1269	16.12.1994
6	1023	01.07.1988
<b>2</b>	<b>1231</b>	<b>Unisco</b>
1	1160	01.06.1994
2	1302	16.01.1995
3	1278	23.12.1994
4	1202	06.10.1994

Line : Line#

<b>1</b>	<b>1221</b>	<b>Kauai Dive Shoppe</b>
1	1076	16.12.1994
2	1123	24.08.1993
3	1169	06.07.1994
4	1176	26.07.1994
5	1269	16.12.1994
6	1023	01.07.1988
<b>2</b>	<b>1231</b>	<b>Unisco</b>
7	1160	01.06.1994
8	1302	16.01.1995
9	1278	23.12.1994

### 3.6

FastReport

SUM	
MIN	
MAX	
AVG	
COUNT	

( - SUM): ( COUNT)

SUM(expression, band, flags)  
 SUM(expression, band)  
 SUM(expression)

expression – ,  
 band – - ,  
 flags – ,  
 :  
 1 –

2 -

(

)

expression,

band,

COUNT

COUNT(band, flags)  
 COUNT(band)

GroupHeader: GroupHeader1		
[Group."CustNo"]	[Group."Company"]	
MasterData: MasterData1		
[Group."OrderNo"]	[Group."SaleDate"]	[Group."ItemsTotal"]
GroupFooter: GroupFooter1		
[SUM(<Group."ItemsTotal">,MasterData1)]		

Group."ItemsTotal"

1221	Kauai Dive Shoppe	
1076	16.12.1994	17781
1123	24.08.1993	13945
1169	06.07.1994	9471,95
1176	26.07.1994	4178,85
1269	16.12.1994	1400
1023	01.07.1988	4674
		51450,8

```

FastReport
- ( SUM MasterData1).
Group."ItemsTotal".
flags
Visible
:
[SUM(<Group."ItemsTotal">,MasterData1,1)]

```

1221	Kauai Dive Shoppe	51450,8
1231	Unisco	85643,6
1351	Sight Diver	261575,8

flags = 2

```

[SUM(<Group."ItemsTotal">,MasterData1,3)]

```

1221	Kauai Dive Shoppe	51450,8
1231	Unisco	137094,4
1351	Sight Diver	398670,2

## 3.7

**Служебный текст** ✕

Системная переменная

**Агрегатная функция**

Функция: SUM

Дата-бэнд: MasterData1

Набор данных: Group

Поле БД: ItemsTotal

Выражение:

Учитывать невидимые бэнды

Нарастающим итогом

SUM(<Group."ItemsTotal">,MasterData1)

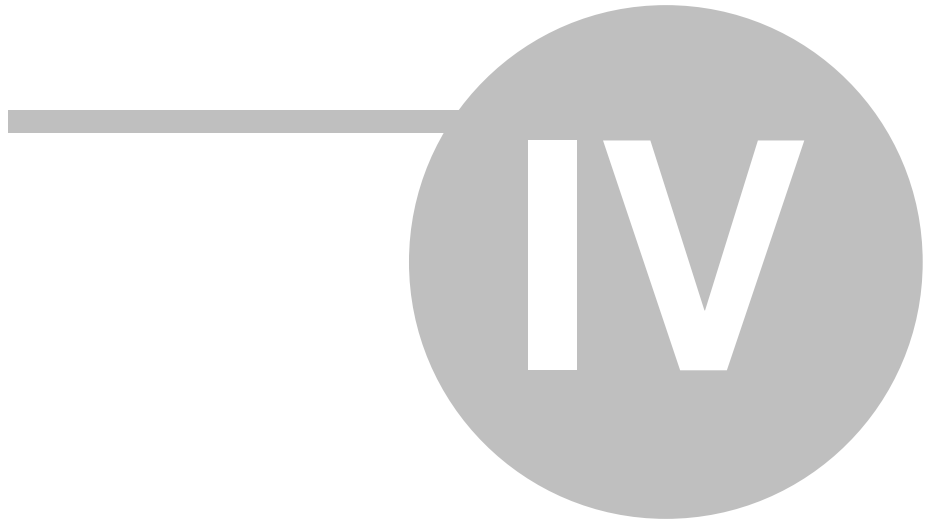
Текст

OK Отмена

## 3.8

<b>GroupHeader:</b> GroupHeader1		
[Group."CustNo"]	[Group."Company"]	
<b>MasterData:</b> MasterData1		
[Group."OrderNo"]	[Group."SaleDate"]	[Group."ItemsTotal"]
<b>GroupFooter:</b> GroupFooter1		
	[SUM(<Group."ItemsTotal">,MasterData1)]	
<b>ReportSummary:</b> ReportSummary1		
	Всего: [SUM(<Group."ItemsTotal">,MasterData1)]	
<b>PageFooter:</b> PageFooter1		
	На этой странице: [SUM(<Group."ItemsTotal">,MasterData1)]	

9841	Neptune's Trident Supply	
1149	14.03.1994	12900,75
1045	16.10.1988	787,8
1049	13.12.1988	1809,85
1145	17.01.1994	4229,8
		19728,2
	Всего:	2922666,1
	На этой странице:	320872,8



,

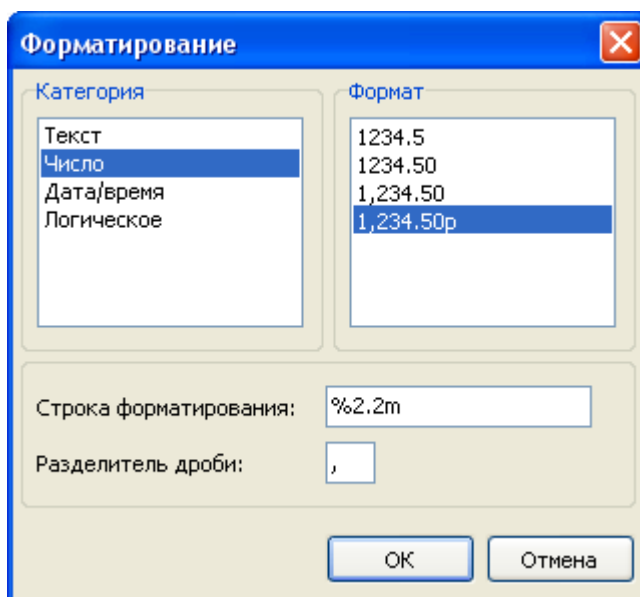
## 4.1

1176	26.07.94	4 178,85р.
1269	16.12.94	1 400,00р.
		51450,8

SUM

FastReport

DisplayFormat



234,50 .".

Format,

FastReport



"\_"  
,  
.).

:

1176	26.07.94	4 178,85p.
1269	16.12.94	1 400,00p.
		<hr/>
		51 450,80p.

## 4.2

, ... ?

:

:

: [SUM(<Group."ItemsTotal">,MasterData1)]  
- : [COUNT(MasterData1)]

,

( , ) :

1269	16.12.94	1 400,00p.
		<hr/>
		Сумма: 51 450,80p. Кол-во: 6,00p.

-

" ( )". ( -  
, ... )  
,

:

: [SUM(<Group."ItemsTotal">,MasterData1) #n%2,2m]  
- : [COUNT(MasterData1)]

,

1269	16.12.94	1 400,00р.
		Сумма: 51 450,80р.
		Кол-во: 6

[expression #tag]

– # !  
:  
#n –  
#d – /  
#b , –

Format, / –  
FormatDateTime.  
Delphi, FastReport:

:  
%g –  
%2.2f –  
%2.2n –  
%2.2m – , Windows,

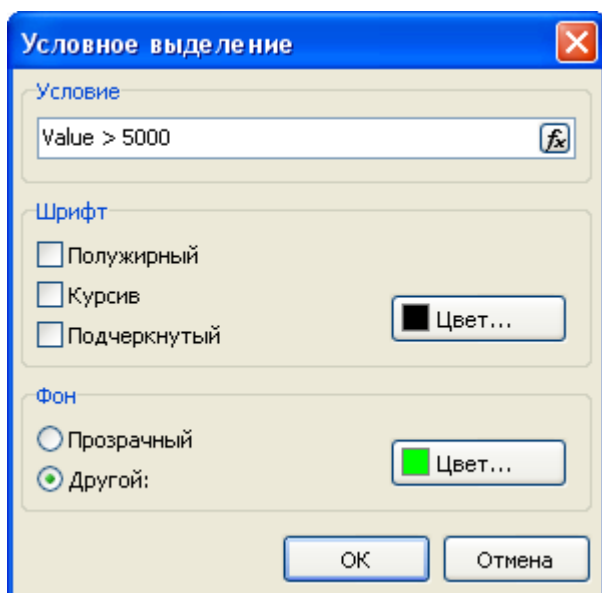
/ :  
dd.mm.yyyy – 23.12.2003  
dd mmm yyyy – 23 2003  
dd mmmm yyyy – 23 2003  
hh:mm – 23:12  
hh:mm:ss – 23:12:00  
dd mmmm yyyy, hh:mm – 23 2003, 23:12

#b ( ),  
False, – True.




## 4.3

Group."ItemsTotal"



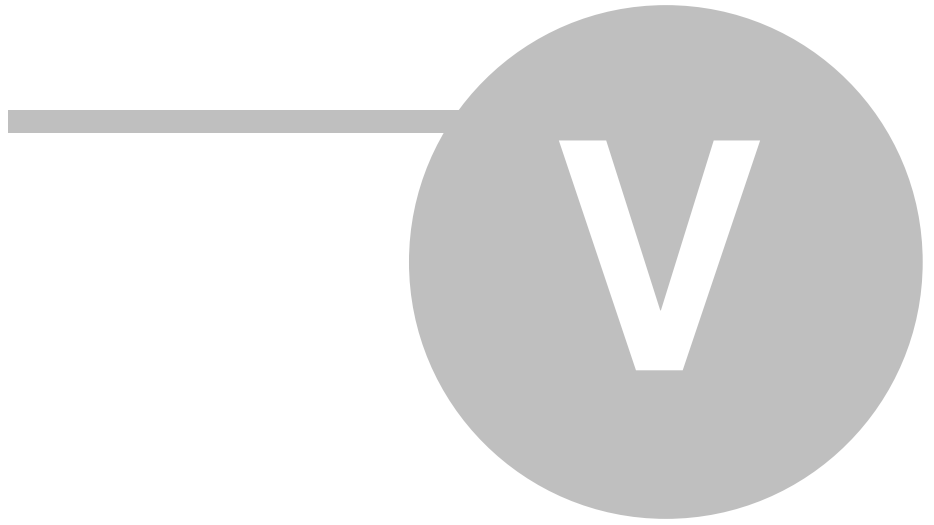
1221	Kauai Dive Shoppe	
1076	16.12.1994	17 781,00p.
1123	24.08.1993	13 945,00p.
1169	06.07.1994	9 471,95p.
1176	26.07.1994	4 178,85p.
1269	16.12.1994	1 400,00p.
1023	01.07.1988	4 674,00p.
		51 450,80p.



<b>ReportTitle:</b> ReportTitle1		
[ Список клиентов ]		
<b>MasterData:</b> MasterData1 		
[Customers."Company"]	[Customers."Phone"]	[Customers."FAX"]

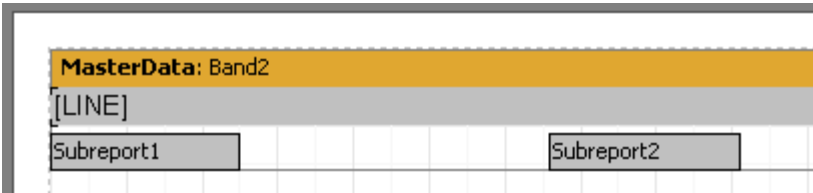
### Список клиентов

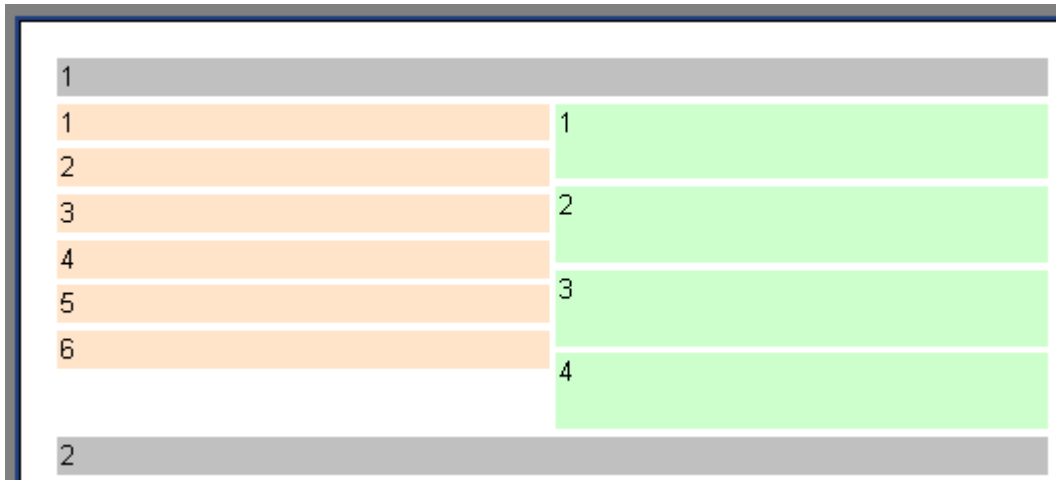
Action Club	813-870-0239	813-870-0282
Action Diver Supply	22-44-500211	22-44-500596
Adventure Undersea	011-34-09054	011-34-09064
American SCUBA Supply	213-654-0092	213-654-0095
Aquatic Drama	613-442-7654	613-442-7678
Blue Glass Happiness	213-555-1984	213-555-1995



```
FastReport,
" " " "
FastReport
" "
"Subreports".
FastReport
" "
```

5.1





, FastReport

5.2

" / / " , " : " / ' " , " , ( , ) , - " " :

MasterData: Band4  
Company  
*[Customers."Comp*  
Subreport1  
Так делать нельзя!

Company  
*Action Club*  
Order No 1014 Da  
Так делать нельзя!  
Part  
7612 Куп



(child) :

MasterData: Band4
Company
[Customers."Comp
Subreport1
Child: Child1
А так можно.

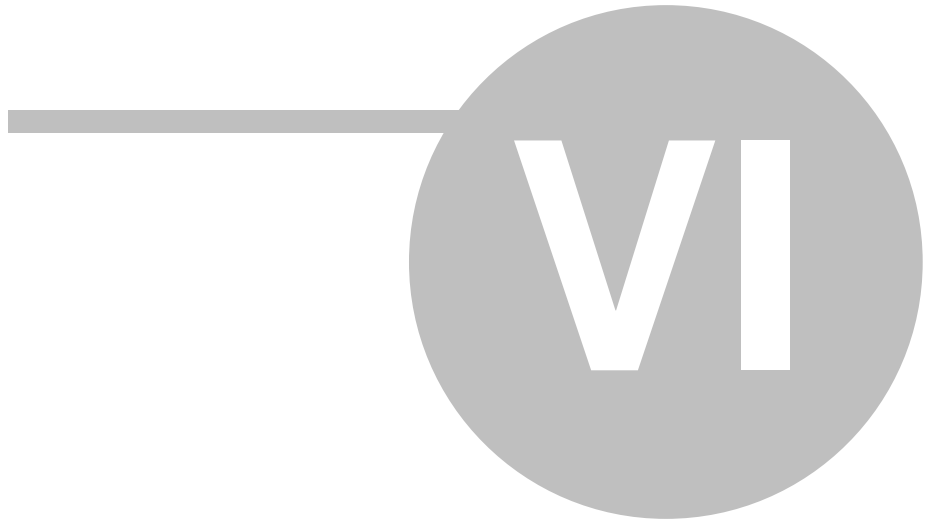
### 5.3

### " (PrintOnParent)

" " – PrintOnParent,

False.

	1
	2
	3
	4
	5
	6



```

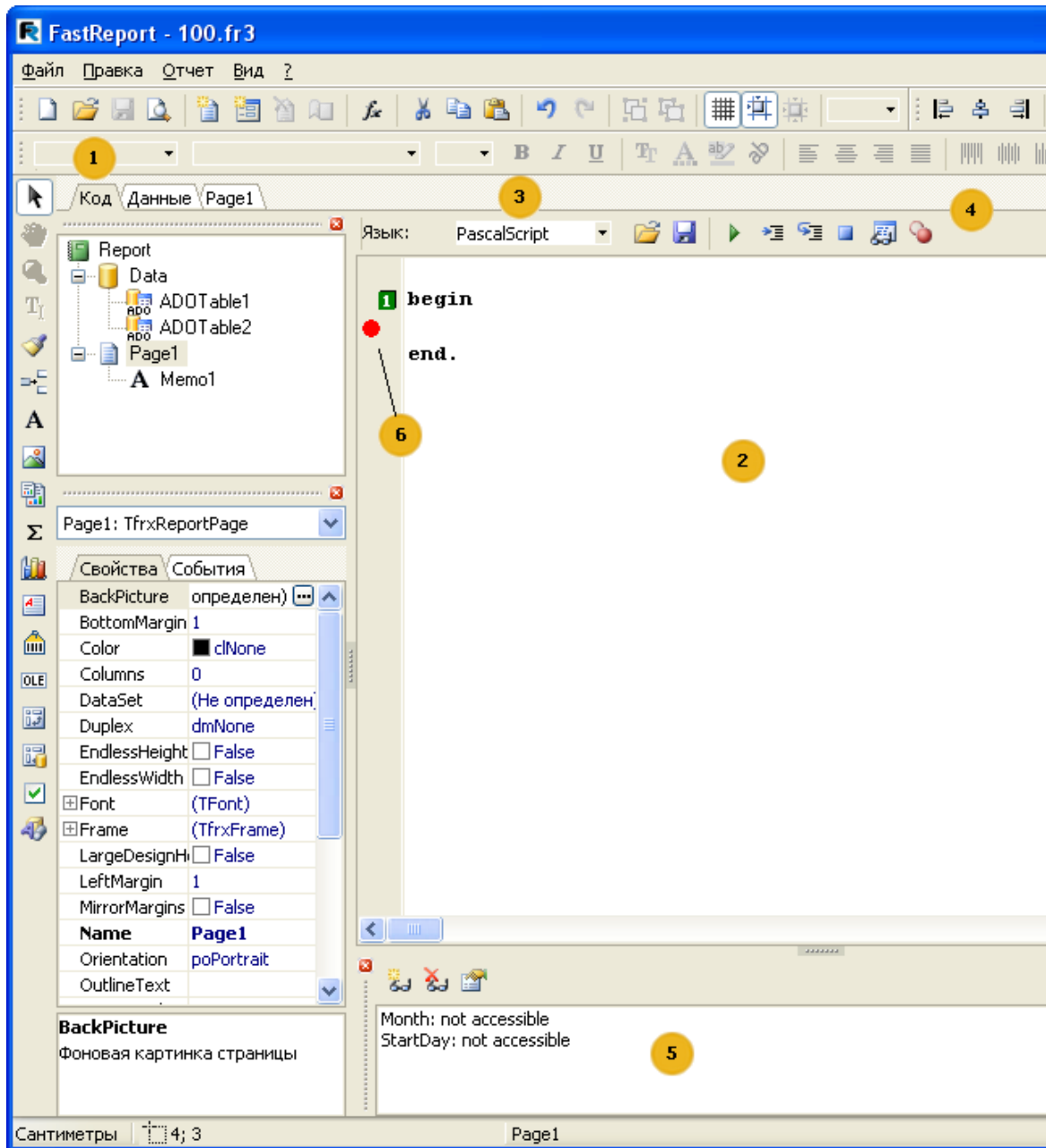
FastReport,
,
FastScript.
:
- PascalScript
- C++Script
- BasicScript
- JScript
FastScript :
- : , , (
) / /
( case, try/finally/except, with),
( , variant), ( , ,
);
- (records, classes) ; (records),
(pointers), (sets) (
'IN' - "a in ['a'..'c','d']"), shortstring, (GOTO);
- ;
- .
FastReport,
: Step, Breakpoint, Run to cursor, Evaluate.

```

### 6.1

```

FastReport.
" "
:
```



```

:
1 - " ";
2 - ;
3 - ;
4 - :
▶ - ;
▶ - , (Run to cursor);
▶ - (Step into);
▶ - ;

```



5 - Watches

6 -

(Evaluate);

(bookmark),

(breakpoint),

PageUp, PageDown	/
Ctrl+PageUp	
Ctrl+PageDown	
Home	
End	
Enter	
Delete	,
Backspace	
Ctrl+Y	
Ctrl+Z	( 32 )
Shift+	
Ctrl+A	
Ctrl+U	2
Ctrl+I	2
Ctrl+C, Ctrl+Insert	
Ctrl+V, Shift+Insert	
Ctrl+X, Shift+Delete	
Ctrl+Shift+< >	0..9
Ctrl+< >	
Ctrl+F	
Ctrl+R	

F3	/
F4	, (Run to cursor)
F5	(Toggle breakpoint)
Ctrl+F2	(Program reset)
Ctrl+F7	(Evaluate)
F9	(Run)
F7 F8	(Step into)
Ctrl+	,
Ctrl+Shift+Delete	
Ctrl+Shift+Backspace	

## 6.2

### PascalScript:

```

#language PascalScript //
program MyProgram; //

// uses -
uses 'unit1.pas', 'unit2.pas';

var // -
    i, j: Integer;

const //
    pi = 3.14159;

procedure p1; //
var
    i: Integer;

    procedure p2; //
    begin
    end;

begin
end;

begin // .

```

end.

### C++Script:

```
#language ++Script //
//      include -
#include "unit1.cpp", "unit2.cpp"

int i, j = 0; // -

#define pi = 3.14159 //

void p1() //
{ //
}

{ // .
}
```

### JScript:

```
#language JScript //
//      import -
import "unit1.js", "unit2.js"

var i, j = 0; // -

function p1() //
{ //
}

// .

p1();
for (i = 0; i < 10; i++) j++;
```

### BasicScript:

```
#language BasicScript //
//      imports -
imports "unit1.vb", "unit2.vb"

Dim i, j = 0 // -

Function p1() //
{ //
}

// .

For i = 0 To 10
    p1()
Next
```

FastScript

```

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

```

PascalScript.

### 6.3 "Hello, World!"

"Hello, World!" – ,

" " " " FastReport

*PascalScript:*

```

begin
  ShowMessage('Hello, World!');
end.

```

*C++ Script:*

```

{
  ShowMessage("Hello, World!");
}

```

, FastReport





```
begin..end.
```

```
").
```

## 6.4

```
Page1
```

```
Memor -
```

*PascalScript:*

```
Memor.Color := clRed
```

*C++Script:*

```
Memor.Color = clRed
```

```
"
```

```
".
```

```
?
```

```
- ,
```

```
( )
```

```
FastReport,
```

```
" "
```

```
MyTextObject
```

```
" "
```

```
:
```

*PascalScript:*

```
begin
```

```
MyTextObject.Color := clRed
```

```
end.
```

*C++Script:*

```
{
  MyTextObject.Color = clRed
}
```

## 6.5

```
( " | ' ...").
:
```

*PascalScript:*

```
if <my variable> = 10 then ...
```

*C++ Script:*

```
if (<my variable> == 10) { ... }
```

–

Get:

*PascalScript:*

```
if Get('my variable') = 10 then ...
```

*C++ Script:*

```
if (Get("my variable") == 10) { ... }
```

Set:

*PascalScript:*

```
Set('my variable', 10);
```

*C++ Script:*

```
Set("my variable", 10);
```

,

:

*PascalScript:*

```
Set('my variable', '' + ' ' + '');
```

*C++ Script:*

```
Set("my variable", "\ " \");
```

Page#:

,

*PascalScript:*

```
if <Page#> = 1 then ...
```

*C++ Script:*

```
if (<Page#> == 1) { ... }
```

## 6.6

*PascalScript:*

```
if <Table1."Field1"> = Null then...
```

*C++ Script:*

```
if (<Table1."Field1"> == Null) { ... }
```

```
Get (
    ,
    ,
    ).
```

## 6.7

```
" ",
(
    ,
    " "),
.
```

## 6.8

*PascalScript:*

```
var
    MyVariable: String;
```

```
begin
  MyVariable := 'Hello!';
end.
```

*C++ Script:*

```
string MyVariable;
```

```
{
  MyVariable = "Hello!";
}
```

```
[MyVariable].
```

## 6.9

```

,
.
-
,
,
-
,
-
..
-
,
" 1 " " " :

```

MasterData: Band4	
[Customers."Company"]	[Customers."Addr1"]

```

,
.
OnStartReport " ".
OnBeforePrint.
(
!).
,
,
-
:
```

```

1.         OnBeforePrint;
2.         OnBeforePrint      ,      ;
3.         (      -
Company Addr1),      OnAfterData      ;
4.         (      (
           )
           );
5.         OnAfterCalcHeight;
6.         ,
7.         ;
8.         OnAfterPrint      ;
9.         OnAfterPrint      .
           ,
           .
           OnAfterPrint      -
OnStopReport      " ".
           ,
           .
           -
           ,
           ,
           OnBeforePrint -
           ,
           ,
           ,
           -
OnAfterCalcHeight      5      4. OnAfterPrint      8,
           ,
           ,
           .

```

6.10

OnBeforePrint

```

,      " ".

```

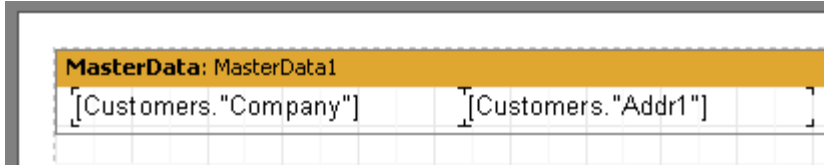
TfrxDBDataSet, TfrxReport Delphi, TTable,

Table1:  
 DatabaseName = 'DBDEMOS'  
 TableName = 'customer.db'

```

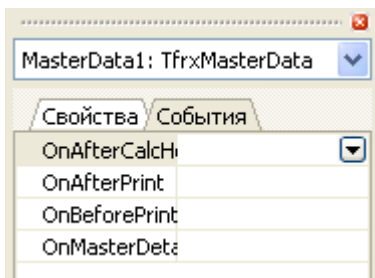
frxDBDataSet1:
  DataSet = Table1
  UserName = 'Customers'
  
```

:



" "

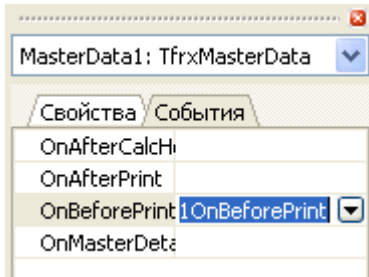
:



OnBeforePrint (

),

:



" ":

```

Язык: PascalScript
procedure MasterData1OnBeforePrint(Sender: TfrxComponent);
begin
  |
end;

begin
end.

```

Delphi.

*PascalScript:*

```

if Copy(<Customers."Company">, 1, 1) = 'A' then
  MasterData1.Visible := True else
  MasterData1.Visible := False;

```

*C++Script:*

```

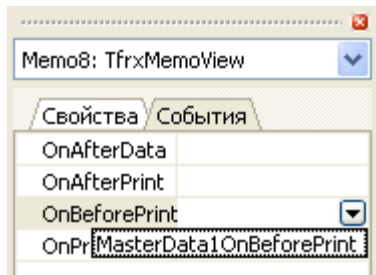
if (Copy(<Customers."Company">, 1, 1) == "A")
  MasterData1.Visible = true;
else
  MasterData1.Visible = false;

```

Action Club	Michael Spurling	813-870-0239
Action Diver Supply	Marianne Miles	22-44-500211
Adventure Undersea	Gloria Gonzales	011-34-09054
American SCUBA Supply	Lynn Cinciripini	213-654-0092
Aquatic Drama	Gillian Owen	613-442-7654

Sender ( Sender

Delphi: Delphi).



Delete.

## 6.11

```

( ... , ... ),
- ;
- ;
- .
, Delphi, TQuery,
TfrxReport, TfrxDBDataSet.

```

```

Query1:
  DatabaseName = 'DBDEMOS'
  SQL =
  select * from customer, orders
  where orders.CustNo = customer.CustNo
  order by customer.CustNo, orders.OrderNo

```

```

frxDBDataSet1:
  DataSet = Query1
  UserName = 'Group'

```

```

( " | " "...")
: " " " 1 ".
" " Group.CustNo. -
Group -
:
```



<b>GroupHeader:</b> GroupHeader1		
[Group."CustNo"]	[Group."Company"]	[ ]
<b>MasterData:</b> MasterData1		
[Group."OrderNo"]	[Group."SaleDate"]	[Group."ItemsTotal"]
<b>GroupFooter:</b> GroupFooter1		
[SUM(<Group."ItemsTotal">,MasterData1)]		

( - Memo8)

1.

TStringList.

*PascalScript:*

```

var
  List: TStringList;
  i: Integer;

procedure frxReport1OnStartReport(Sender: TfrxComponent);
begin
  List := TStringList.Create;
end;

procedure frxReport1OnStopReport(Sender: TfrxComponent);
begin
  List.Free;
end;

procedure Page1OnBeforePrint(Sender: TfrxComponent);
begin
  i := 0;
end;

procedure GroupHeader1OnBeforePrint(Sender: TfrxComponent);
begin
  if Engine.FinalPass then
    Memo8.Text := 'Sum: ' + List[i];
end;

procedure GroupFooter1OnBeforePrint(Sender: TfrxComponent);

```

```

begin
  if not Engine.FinalPass then
    List.Add(FloatToStr(SUM(<Group."ItemsTotal">,MasterData1)));
    Inc(i);
  end;

begin

end.

```

### C++ Script:

```

TStringList List;
int i;

void frxReport1OnStartReport(TfrxComponent Sender)
{
  List = TStringList.Create();
}

void frxReport1OnStopReport(TfrxComponent Sender)
{
  List.Free();
}

void Page1OnBeforePrint(TfrxComponent Sender)
{
  i = 0;
}

void GroupHeader1OnBeforePrint(TfrxComponent Sender)
{
  if (Engine.FinalPass)
    Memo8.Text = "Sum: " + List[i];
}

void GroupFooter1OnBeforePrint(TfrxComponent Sender)
{
  List.Add(FloatToStr(SUM(<Group."ItemsTotal">,MasterData1)));
  i++;
}

{

}

```

```

Report.OnStartReport,      Report.OnStopReport,      Page1.OnBeforePrint,
GroupHeader1.OnBeforePrint, GroupFooter1.OnBeforePrint.
,      ,      ,      ,
"      "      "      "      " _      ,
"      "      .      -

```

```

List
, OnStartReport? ,
OnStartReport, OnStopReport. (
)
List ( i)
0 (
GroupFooter1.OnBeforePrint).
GroupHeader1.OnBeforePrint
( Engine.FinalPass). (
List ), Memo8,
:

```

1221	Kauai Dive Shoppe	Sum: 51450,8
1023	01.07.88	4 674,00p.
1076	16.12.94	17 781,00p.
1123	24.08.93	13 945,00p.
1169	06.07.94	9 471,95p.
1176	26.07.94	4 178,85p.
1269	16.12.94	1 400,00p.
		51 450,80p.

2.

Get Set.

*PascalScript:*

```

procedure GroupHeader1OnBeforePrint(Sender: TfrxComponent);
begin
  if Engine.FinalPass then
    Memo8.Text := 'Sum: ' + Get(<Group."CustNo">);
end;

procedure GroupFooter1OnBeforePrint(Sender: TfrxComponent);

```

```

begin
  Set(<Group."CustNo">,
    FloatToStr(SUM(<Group."ItemsTotal">,MasterData1)));
end;

begin

end.

```

*C++ Script:*

```

void GroupHeader1OnBeforePrint(TfrxComponent Sender)
{
  if (Engine.FinalPass)
    Memo8.Text = "Sum:" + Get(<Group."CustNo">);
}

void GroupFooter1OnBeforePrint(TfrxComponent Sender)
{
  Set(<Group."CustNo">,
    FloatToStr(SUM(<Group."ItemsTotal">,MasterData1)));
}

{

}

```

```

GroupFooter1.OnBeforePrint
(
  <Group."Company">).
GroupHeader1.OnBeforePrint

```

## 6.12 OnAfterData

```

Value,
" "
[Table1."Field1"] [<Table2."Field1"> + 10],
Value:

```

*PascalScript:*

```

if Value > 3000 then
  Memo1.Color := clRed

```

*C++ Script:*

```
if (Value > 3000)
    Mem1.Color = clRed;
```

*PascalScript:*

```
if <Table1."Field1"> > 3000 then
    Mem1.Color := clRed
```

*C++ Script:*

```
if (<Table1."Field1"> > 3000)
    Mem1.Color = clRed;
```

```

, Value
OnAfterData
.
[expr1] [expr2] - Value
.
OnAfterData
" ", ...
( ), " "
, OnAfterData:
```

*PascalScript:*

```
var
    MemoWidth: Extended;

begin
    MemoWidth := TfrxMemoView(Sender).CalcWidth;
end;
```

*C++ Script:*

```
float MemoWidth;

MemoWidth = TfrxMemoView(Sender).CalcWidth;

OnBeforePrint,
```

### 6.13

```

.), ( , , " "
      .
      Engine.
      :
- Report - " ";
- Engine - ;
- Outline - " "
      .
      .
      .
  
```

#### 6.13.1 Report

```

      , " " " "
      :
  
```

<pre>function Calc(const Expr: String): Variant</pre>	<pre>Expr, , Report.Calc('1+2') 3. FastReport</pre>
<pre>function GetDataSet(const Alias: String): TfrxDataSet</pre>	<pre>( "   ...").</pre>

#### 6.13.2 Engine

```

( FastReport,
,
)
.

```

--	--	--

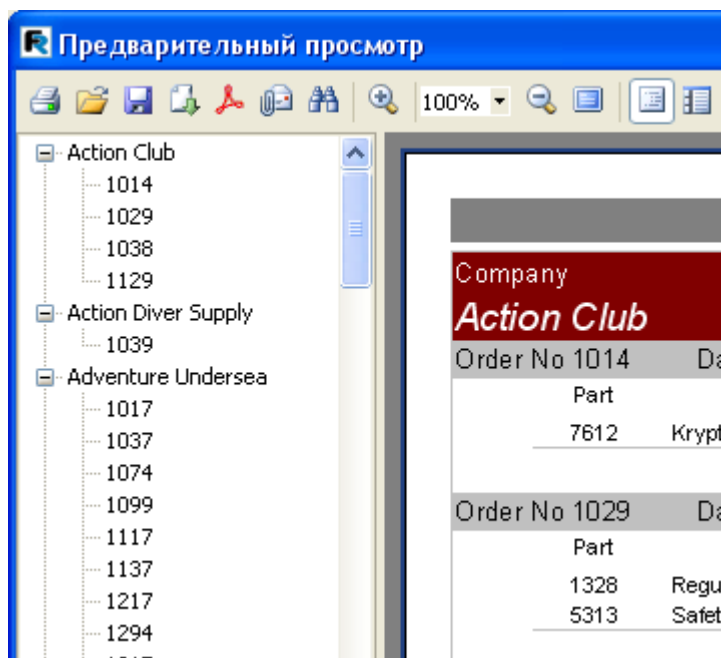
CurColumn	Integer	
CurX	Extended	X.
CurY	Extended	Y.
DoublePass	Boolean	True, Report.EngineOptions.DoublePass.
FinalPass	Boolean	True,
PageHeight	Extended	,
PageWidth	Extended	,
StartDate	TDateTime	<Date>.
StartTime	TDateTime	<Time>.
TotalPages	Integer	<TotalPages>.
SecondScriptcal l	Boolean	True, " " ( SuppressRepeated ).

:

<code>procedure AddAnchor(const Text : String)</code>	" "
<code>procedure NewColumn</code>	
<code>procedure NewPage</code>	( ).

<code>procedure ShowBand(Band: TfrxBand)</code>	CurY.
<code>function FreeSpace: Extended</code>	,
<code>function GetAnchorPage(const Text: String): Integer</code>	,

### 6.13.3 Outline



`Report.PreviewOptions.OutlineVisible = True.`

`Report.PreviewOptions.OutlineWidth.`

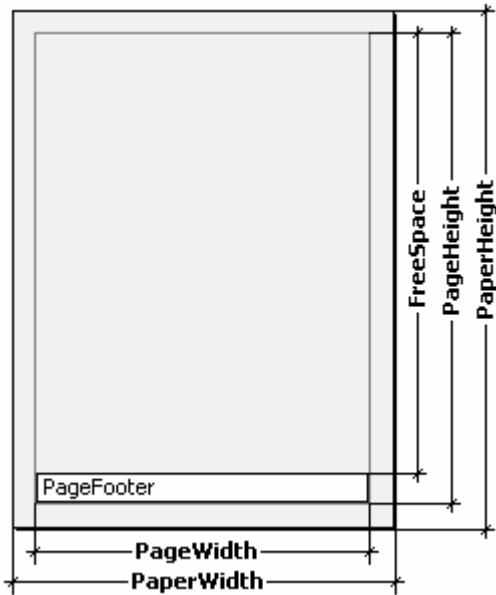


<code>procedure AddItem(const Text: String)</code>	Text
<code>procedure LevelRoot</code>	
<code>procedure LevelUp</code>	1

## 6.14

## Engine

Engine



PaperWidth, PaperHeight.

4

210 297

PageWidth, PageHeight

LeftMargin, TopMargin, RightMargin, BottomMargin.

Engine.PageWidth, Engine.PageHeight.

FreeSpace

" (Page Footer),

FreeSpace.

Engine.FreeSpace.

FreeSpace.

? FastReport

" ( )

X Y.

Engine.CurX, Engine.CurY.

CurY

CurY = 0.

CurX

Engine.CurX, Engine.CurY

MasterData: MasterData1		
[[Customers."Company"]	[[Customers."Contact"]	[[Customers."Phone"]

:

Action Club	Michael Spurling	813-870-0239
Action Diver Supply	Marianne Miles	22-44-500211
Adventure Undersea	Gloria Gonzales	011-34-09054
American SCUBA Supply	Lynn Cinciripini	213-654-0092
Aquatic Drama	Gillian Owen	613-442-7654
Blue Glass Happiness	Christine Taylor	213-555-1984

OnBeforePrint :

*PascalScript:*

```
procedure MasterData1OnBeforePrint(Sender: TfrxComponent);
begin
  Engine.CurX := Engine.CurX + 5;
end;
```

*C++ Script:*

```
void MasterData1OnBeforePrint(TfrxComponent Sender)
{
  Engine.CurX = Engine.CurX + 5;
}
```

CurY

:

Action Club	Michael Spurling	813-870-0239
Action Diver Supply	Marianne Miles	727-44-5002
Adventure Undersea	Gloria Gonzales	011-34-8664
American SCUBA Supply	Lynn Cinciripini	213-654-0092
Aquatic Drama	Lillian Owen	613-442-1664
Blue Glass Happiness	Christine Taylor	213-446-1664
Blue Jack Aqua Center	Ernest Barratt	401-609-7623
Blue Sports Club	Theresa Kunec	619-227-8394

:

*PascalScript:*

```
procedure MasterData1OnBeforePrint(Sender: TfrxComponent);
begin
  Engine.CurY := Engine.CurY - 15;
end;
```

*C++ Script:*

```
void MasterData1OnBeforePrint(TfrxComponent Sender)
{
  Engine.CurY = Engine.CurY - 15;
}
```

Engine.NewPage

,

:

*PascalScript:*

```
procedure MasterData1OnAfterPrint(Sender: TfrxComponent);
begin
```

```

if <Line> = 2 then
    Engine.NewPage;
end;

```

*C++ Script:*

```

void MasterData1OnAfterPrint(TfrxComponent Sender)
{
    if (<Line> == 2)
        Engine.NewPage();
}

```

```

OnAfterPrint, . .
Line, . .

```

```

Engine.NewColumn


```

## 6.15

```

(anchor) - . . . . . ( . . . . . )
, . . . . .
- . . . . . , . . . . .
Engine.AddAnchor. . . . . , . . . . .
URL . . . . . : . . . . .
#
#[ . . . . . ]
, . . . . . FastReport . . . . . ,
. . . . . ,
" . . . . . "
. . . . . , Customer.db.
( . . . . . " . . . . . " . . . . . -
).


```

<b>ReportTitle:</b> ReportTitle1	
[ Table of contents ]	
<b>MasterData:</b> MasterData1  Customers	
[ Customers."Company" ]	

URL

" "

*#[Customers."Company"]*

<b>ReportTitle:</b> ReportTitle2			
<b>Customers</b>			
<b>PageHeader:</b> PageHeader1			
<b>Company</b>	<b>Address</b>	<b>Contact</b>	<b>Phone</b>
<b>MasterData:</b> MasterData2  Customers			
[ Customers."Company" ]	[ Customers."Addr1" ]	[ Customers."Contact" ]	[ Customers."Ph" ]

MasterData2.OnBeforePrint

*PascalScript:*

```

procedure MasterData2OnBeforePrint(Sender: TfrxComponent);
begin
    Engine.AddAnchor(<Customers."Company">);
end;

```

*C++ Script:*

```
void MasterData2OnBeforePrint(TfrxComponent Sender)  
{  
    Engine.AddAnchor(<Customers."Company">);  
}
```

```
        , . , , " "  
        , , Engine.GetAnchorPage.  
        " "
```

### 6.16

### Outline

```
Outline, ,  
Outline ,  
Outline, , ..
```

```
OutlineText, - .  
    , , ( - ,  
    ).
```

<b>GroupHeader:</b> GroupHeader1		Group."CustNo"
[ Group."CustNo" ]	[ Group."Company" ]	
<b>MasterData:</b> MasterData1		Group
[ Group."OrderNo" ]	[ Group."SaleDate" ]	

```
<Group."Company">. GroupHeader1.OutlineText  
:
```

Item Name	OrderNo	Date
Kauai Dive Shoppe	1651	Jamaica SCUBA Centre
Unisco	1015	25.05.1988
Sight Diver	1028	07.07.1988
Cayman Divers World Unlimite	1128	08.10.1993
Tom Sawyer Diving Centre	1215	16.11.1994
Blue Jack Aqua Center	1315	26.01.1995
VIP Divers Club	1680	Island Finders
Ocean Paradise	1093	01.06.1989
Fantastique Aquatica	1016	02.06.1988
Marmot Divers Club	1084	11.05.1989
The Depth Charge	1084	11.05.1989
Blue Sports	1016	02.06.1988
Makai SCUBA Club	1084	11.05.1989
Action Club	1084	11.05.1989
Jamaica SCUBA Centre	1116	21.03.1993
Island Finders	1116	21.03.1993
Adventure Undersea	1034	13.08.1988

MasterData.OutlineText

<Group."OrderNo">.

- Kauai Dive Shoppe
  - 1076
  - 1123
  - 1169
  - 1176
  - 1269
  - 1023
- Unisco
  - 1160
  - 1302
  - 1278
  - 1202
  - 1173

OutlineText

OutlineText.

GroupHeader1.OnBeforePrint    MasterData1.OnBeforePrint:

*PascalScript:*

```

procedure GroupHeader1OnBeforePrint(Sender: TfrxComponent);
begin
    Outline.LevelRoot;
    Outline.AddItem(<Group. "Company">);
end;

procedure MasterData1OnBeforePrint(Sender: TfrxComponent);
begin
    Outline.AddItem(<Group. "OrderNo">);
    Outline.LevelUp;
end;

begin
end.

```

*C++ Script:*

```

void GroupHeader1OnBeforePrint(TfrxComponent Sender)
{
    Outline.LevelRoot;
    Outline.AddItem(<Group. "Company">);
}

void MasterData1OnBeforePrint(TfrxComponent Sender)
{
    Outline.AddItem(<Group. "OrderNo">);
    Outline.LevelUp;
}

{
}

```

Outline.AddItem    AddItem,  
"    "

*Item1*  
*Item2*  
*Item3*  
...

Outline    LevelUp    LevelRoot.



```

Outline.AddItem('Item1');
Outline.AddItem('Item2');
Outline.AddItem('Item3');
Outline.LevelUp;
Outline.AddItem('Item4');

```

```

Item1
Item2
Item3
Item4

```

```

. . . Item4 . . . Item2.
LevelRoot . . . ,

```

```

Outline.AddItem('Item1');
Outline.AddItem('Item2');
Outline.AddItem('Item3');
Outline.LevelRoot;
Outline.AddItem('Item4');

```

```

Item1
Item2
Item3
Item4

```

```

Outline.LevelUp.

```

## 6.17

### OnManualBuild

```

FastReport.
.
.
FastReport
.
OnManualBuild,

```

```

FastReport
OnManualBuild
FastReport
data,
master

```

<b>ReportTitle:</b> ReportTitle1	[OnManualBuild test]
<b>MasterData:</b> MasterData1	MasterData1
<b>MasterData:</b> MasterData2	MasterData2
<b>PageFooter:</b> PageFooter1	

6

### *PascalScript:*

```

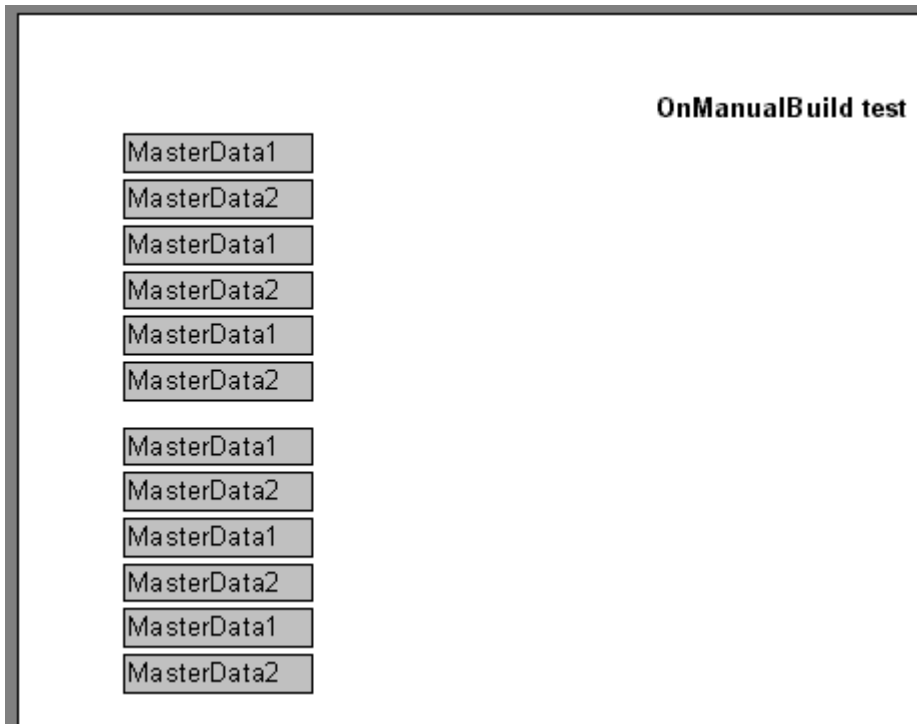
procedure Page1OnManualBuild(Sender: TfrxComponent);
var
  i: Integer;
begin
  for i := 1 to 6 do
  begin
    {
    Engine.ShowBand(MasterData1);
    Engine.ShowBand(MasterData2);
    }
    if i = 3 then
      Engine.CurY := Engine.CurY + 10;
  end
end

```

```
end;  
end;
```

*C++ Script:*

```
void Page1OnManualBuild(TfrxComponent Sender)  
{  
    int i;  
  
    for (i = 1; i <= 6; i++)  
    {  
        //  
        Engine.ShowBand(MasterData1);  
        Engine.ShowBand(MasterData2);  
        //  
        if (i == 3)  
            Engine.CurY = Engine.CurY + 10;  
    }  
}
```



*PascalScript:*

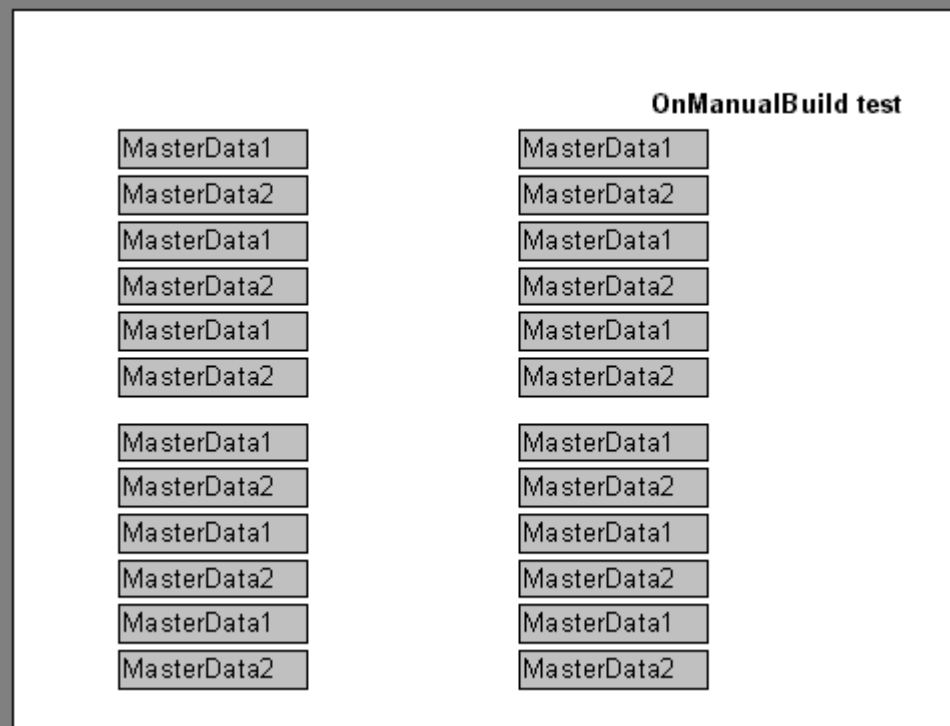
```
procedure Page1OnManualBuild(Sender: TfrxComponent);  
var  
    i, j: Integer;  
    SaveY: Extended;
```

```
begin
  SaveY := Engine.CurY;
  for j := 1 to 2 do
  begin
    for i := 1 to 6 do
    begin
      Engine.ShowBand(MasterData1);
      Engine.ShowBand(MasterData2);
      if i = 3 then
        Engine.CurY := Engine.CurY + 10;
      end;
      Engine.CurY := SaveY;
      Engine.CurX := Engine.CurX + 200;
    end;
  end;
end;
```

*C++Script:*

```
void Page1OnManualBuild(TfrxComponent Sender)
{
  int i, j;
  Extended SaveY;

  SaveY = Engine.CurY;
  for (j = 1; j <= 2; j++)
  {
    for (i = 1; i <= 6; i++)
    {
      Engine.ShowBand(MasterData1);
      Engine.ShowBand(MasterData2);
      if (i == 3)
        Engine.CurY = Engine.CurY + 10;
    }
    Engine.CurY = SaveY;
    Engine.CurX = Engine.CurX + 200;
  }
}
```



( , " ' " ) - .  
, , ) " ( OnManualBuild.

<b>ReportTitle:</b> Band1		
<b>Customers</b>		
<b>PageHeader:</b> Band2		
<b>Company</b>	<b>Contact</b>	<b>Phone</b>
<b>MasterData:</b> MasterData1		
Customers."Company"	Customers."Contact"	Customers."Ph
<b>PageFooter:</b> Band3		

:

*PascalScript:*

```

procedure Page1OnManualBuild(Sender: TfrxComponent);
var
  DataSet: TfrxDataSet;
begin
  DataSet := MasterData1.DataSet;
  DataSet.First;
  while not DataSet.Eof do
  begin
    Engine.ShowBand(MasterData1);
    DataSet.Next;
  end;
end;

```

*C++Script:*

```

void Page1OnManualBuild(TfrxComponent Sender)
{
  TfrxDataSet DataSet;

  DataSet = MasterData1.DataSet;
  DataSet.First();
  while (!DataSet.Eof)
  {
    Engine.ShowBand(MasterData1);
    DataSet.Next();
  }
}

```

```

,
.

```

```

,
```

Dataset:

```

,
```

```

DataSet := MasterData1.DataSet;

```

```

:
```

```

DataSet := Report.GetDataSet('Customers');

```

```

" | ' ...".

```

**6.18**

```

,
.
:
```

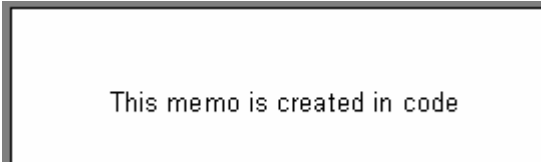
*PascalScript:*

```
var
  Band: TfrxReportTitle;
  Memo: TfrxMemoView;
begin
  Band := TfrxReportTitle.Create(Pagel);
  Band.Height := 20;
  Memo := TfrxMemoView.Create(Band);
  Memo.SetBounds(10, 0, 100, 20);
  Memo.Text := 'This memo is created in code';
end.
```

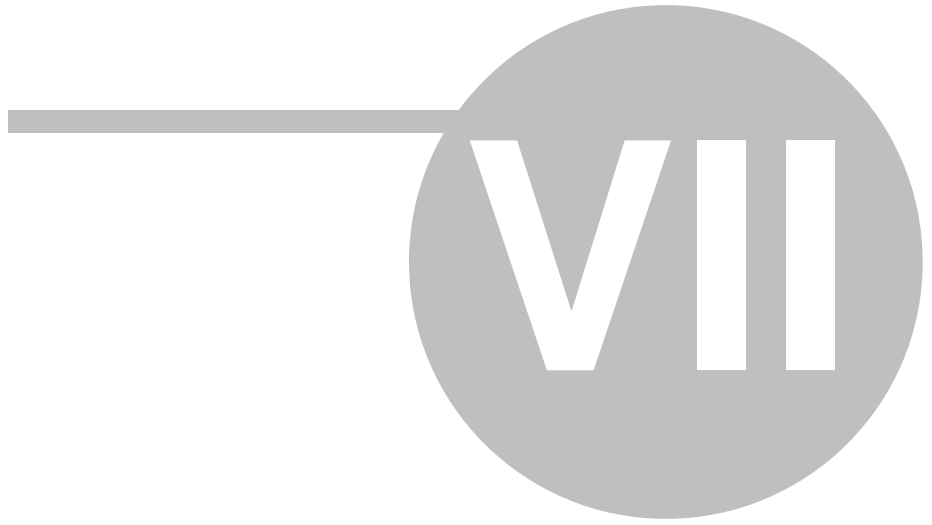
*C++ Script:*

```
TfrxReportTitle Band;
TfrxMemoView Memo;
{
  Band = TfrxReportTitle.Create(Pagel);
  Band.Height = 20;
  Memo = TfrxMemoView.Create(Band);
  Memo.SetBounds(10, 0, 100, 20);
  Memo.Text = "This memo is created in code";
}
```

:



This memo is created in code





, ...  
 ,  
 .  
 ,  
 " " .  
 :

	1	2	3	4
a	a1	a2	a3	a4
b	b1	b2	b3	b4

a, b – , 1, 2, 3, 4 – , a1..a4, b1..b4 – .  
 , ( :

a 1 a1  
 a 2 a2  
 a 3 a3  
 a 4 a4  
 b 1 b1  
 b 2 b2  
 b 3 b3  
 b 4 b4

, – ,  
 – ,  
 .  
 :  
 FastReport  
 ,  
 .  
 :

	10		20	
	1	2	1	2
a	a10.1	a10.2	a20.1	a20.2
b	b10.1	b10.2	b20.1	b20.2

, , : , ...  
 .

```

a    10    1    a10.1
a    10    2    a10.2
a    20    1    a20.1
a    20    2    a20.2
b    10    1    b10.1
b    10    2    b10.2
b    20    1    b20.1
b    20    2    b20.2

```

FastReport

	10	10	20	20
	1	2	1	2
a	a10.1	a10.2	a20.1	a20.2
b	b10.1	b10.2	b20.1	b20.2

FastReport

	10			20			Итого
	1	2	Итого	1	2	Итого	
a	a10.1	a10.2	a10.1+a10.2	a20.1	a20.2	a20.1+a20.2	sum(a)
b	b10.1	b10.2	b10.1+b10.2	b20.1	b20.2	b20.1+b20.2	sum(b)
Итого	a10.1+ b10.1	a10.2+ b10.2	a10.1+b10.1+ a10.2+b10.2	a20.1+ b20.1	a20.2+ b20.2	a20.1+b20.1+ a20.2+b20.2	sum(a)+ sum(b)

## 7.1

crosstest,

FastReport DEMOS\MAIN.

<u>Name</u>	<u>Year</u>	<u>Salary</u>
Ann	1999	3300
Ben	2002	2000
....		

```

, Delphi,
TTable, TfrxDBDataSet, TfrxReport :

```

```

Table1:
DatabaseName = 'c:\Program Files\FastReports\FastReport 3\Demos\Main'
TableName = 'crosstest.db'

```

```

, DatabaseName
FastReport!



```

```

frxDBDataSet1:
DataSet = Table1
UserName = 'SimpleCross'

```

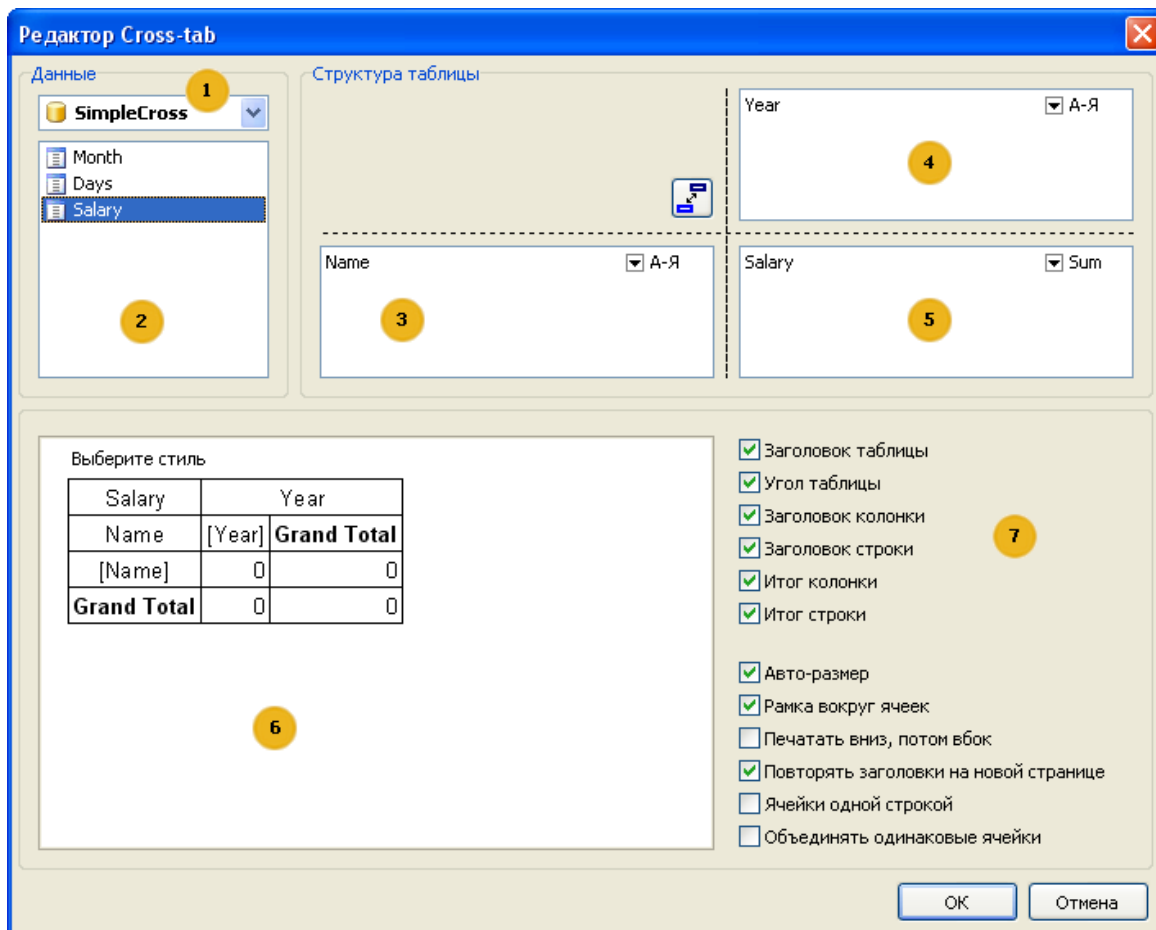
```

TfrxCrossObject 
-
FastReport.
"uses"
-
frxCross -
" | ... "
" - " 

```



:



- 1 –
- 2 –
- 3 –
- 4 –
- 5 –
- 6 –
- 7 –

3, 4, 5;

2

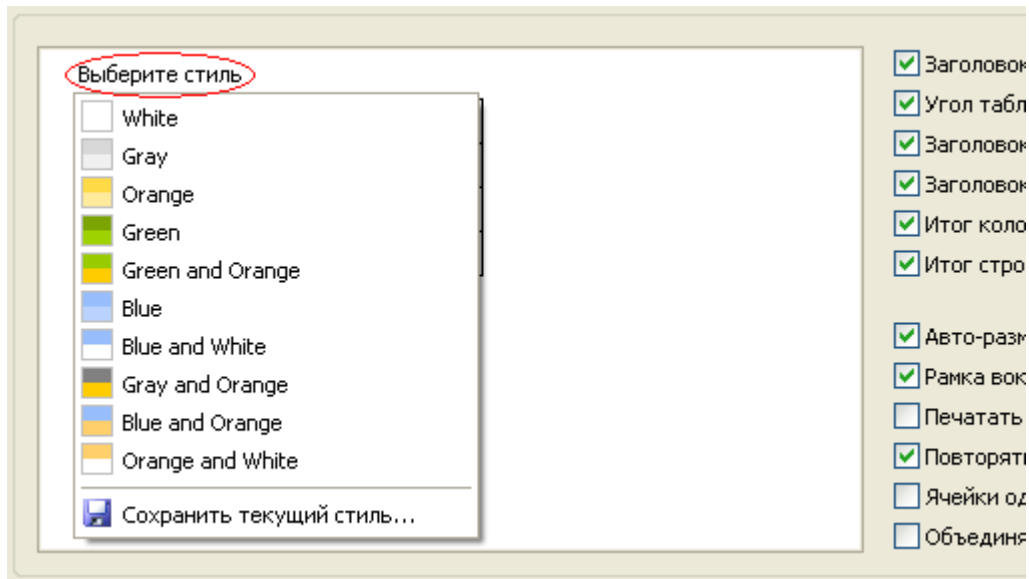
3, 4, 5,

Salary	Year	
Name	[Year]	<b>Grand Total</b>
[Name]	0	0
<b>Grand Total</b>	0	0

Salary	Year				
Name	1999	2000	2001	2002	<b>Grand Total</b>
Ann	3300	2700	3100	1700	10800
Ben	3900	2100		1800	7800
Catherine	6100	3200			9300
Den		3999	8100		12099
<b>Grand Total</b>	13300	11999	11200	3500	39999

## 7.2

Salary	Year	
Name	[Year]	<b>Grand Total</b>
[Name]	0	0
<b>Grand Total</b>	0	0



Зарплата	Год	
Сотрудник [Year] <b>Итого</b>		
[Name]	0	0
<b>Итого</b>	0	0

[Year] [Name]),

Зарплата	Год	
Сотрудник [Year] <b>Итого</b>		
[Name]	0	0
<b>Итого</b>	0	0

Редактировать...

Форматирование...

Зарплата	Год				
Сотрудник	1999	2000	2001	2002	Итого
Ann	3 300,00р.	2 700,00р.	3 100,00р.	1 700,00р.	10 800,00р.
Ben	3 900,00р.	2 100,00р.		1 800,00р.	7 800,00р.
Catherine	6 100,00р.	3 200,00р.			9 300,00р.
Den		3 999,00р.	8 100,00р.		12 099,00р.
<b>Итого</b>	13 300,00р.	11 999,00р.	11 200,00р.	3 500,00р.	39 999,00р.

? ;)

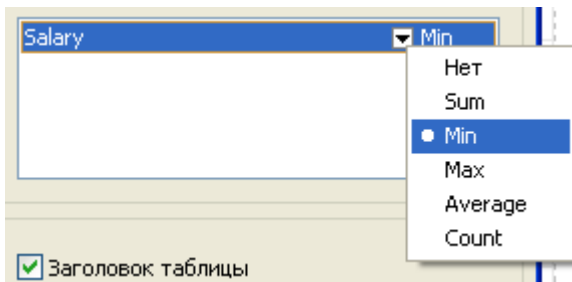
: \$%2.2n.

### 7.3

- MIN –
- MAX –
- AVG –
- COUNT –

MIN

"Salary"

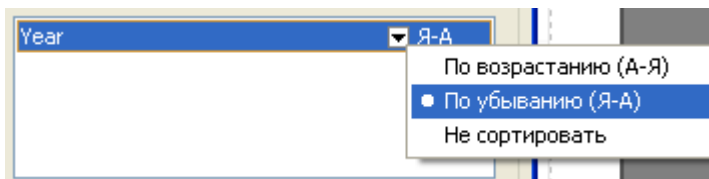


MIN.

Зарплата	Год				Минимум
	1999	2000	2001	2002	
Ann	3 300,00р.	2 700,00р.	3 100,00р.	1 700,00р.	1 700,00р.
Ben	3 900,00р.	2 100,00р.		1 800,00р.	1 800,00р.
Catherine	6 100,00р.	3 200,00р.			3 200,00р.
Den		3 999,00р.	8 100,00р.		3 999,00р.
<b>Минимум</b>	3 300,00р.	2 100,00р.	3 100,00р.	1 700,00р.	1 700,00р.

## 7.4

"Year".



Зарплата	Год				Итого
	2002	2001	2000	1999	
Ann	1 700,00р.	3 100,00р.	2 700,00р.	3 300,00р.	10 800,00р.
Ben	1 800,00р.		2 100,00р.	3 900,00р.	7 800,00р.
Catherine			3 200,00р.	6 100,00р.	9 300,00р.
Den		8 100,00р.	3 999,00р.		12 099,00р.
<b>Итого</b>	3 500,00р.	11 200,00р.	11 999,00р.	13 300,00р.	39 999,00р.



7.5

<u>Name</u>	<u>Year</u>	<u>Month</u>	<u>Days</u>	<u>Salary</u>
Ann	1999	2	3	1000
Ben	2002	1	5	2000

....

- Month Days,

"Month":

Структура таблицы

<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;">                 Name <span style="float: right;">▼ А-Я</span> </div>	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;">                 Year <span style="float: right;">☑ Подитоги ▼ А-Я</span>                  Month <span style="float: right;">▼ А-Я</span> </div>
<div style="border: 1px solid #ccc; padding: 5px;">                 Salary <span style="float: right;">▼ Sum</span> </div>	

"Total"

"Grand total"

Зарплата	Год, Месяц															
	1999					2000				2001				2002		Итого
	2	10	11	12	Итого	1	2	3	Итого	1	2	3	Итого	1	Итого	
Ann	1000		1100	1200	3300	1300	1400		2700		1500	1600	3100	1700	1700	10800
Ben		1900	2000		3900		2100		2100				0	1800	1800	7800
Catherine		3000	3100		6100			3200	3200				0		0	9300
Den					0	3999			3999	4000	4100		8100		0	12099
<b>Итого</b>	1000	4900	6200	1200	13300	5299	3500	3200	11999	4000	5600	1600	11200	3500	3500	39999

FastReport

"Year"

Year  Подитоги  А-Я  
 Month  А-Я

[Value]

"Value"

Зарплата	Год, Месяц								
	1999					2000			
Сотрудник	2	10	11	12	Итого за 1999	1	2	3	Итого за 2000
Ann	1000		1100	1200	3300	1300	1400		2700
Ben		1900	2000		3900		2100		2100
Catherine		3000	3100		6100			3200	3200
Den					0	3999			3999
<b>Итого</b>	1000	4900	6200	1200	13300	5299	3500	3200	11999

7.6

FastReport

? 3

[Value]

Зарплата					
Сотрудник	1999				
	2	10	11	12	Итого за 1999
Ann	1000		1100	1200	3300
Ben		1900	2000		3900
Catherine		3000	3100		6100
Den					0
<b>Итого</b>	1000	4900	6200	1200	13300

MaxWidth (

MinWidth  
).

MinWidth = 0, MaxWidth = 200.

MinWidth = MaxWidth = 50.

50

MinWidth,  
MaxWidth,

	1999				Итого за 1999
	2	10	11	12	
Ann	1000		1100	1200	3300
Ben		2100	2200		4300
Catherine		3000	3100		6100
Den					0
<b>Итого</b>	<b>1000</b>	<b>5100</b>	<b>6400</b>	<b>1200</b>	<b>13700</b>

), " - " ( AutoSize ).

Зарплата	Год, Месяц		
Сотрудник	[Year]		Итого
	[Month]	Итого за [Year]	
[Name]	0	0	0
<b>Итого</b>	0	0	0

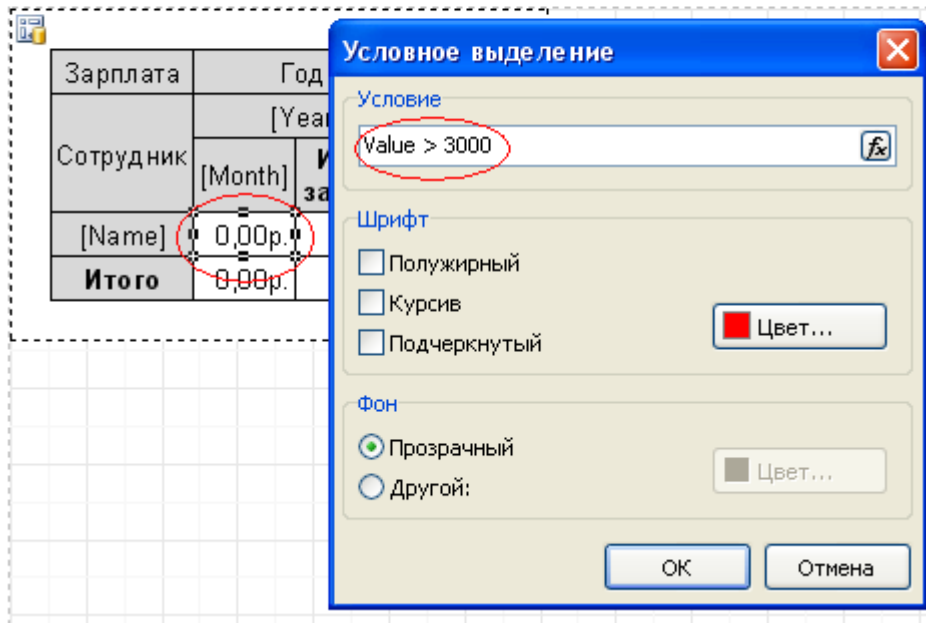
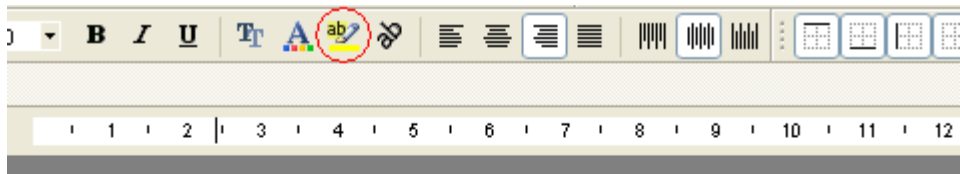
, " - " : ,

Зарплата	Го				
Сотрудник	1999				
	2	10	11	12	Итого за 1999
Ann	1 000,0 Пн		1 100,0 Пн	1 200,0 Пн	3 300,00р
Ben		1 900,0 Пн	2 000,0 Пн		3 900,00р
Catherine		3 000,0 Пн	3 100,0 Пн		6 100,00р
Den					0,00р.
<b>Итого</b>	1 000,0 Пн	4 900,0 Пн	6 200,0 Пн	1 200,0 Пн	13 300,00 н

## 7.7

3000

*Value > 3000*



Зарплата	Год, Месяц					
	1999					
Сотрудник	2	10	11	12	<b>Итого за 1999</b>	1
Ann	1 000,00р.		1 100,00р.	1 200,00р.	3 300,00р.	1 300,00р.
Ben		1 900,00р.	2 000,00р.		3 900,00р.	
Catherine		3 000,00р.	<b>3 100,00р.</b>		6 100,00р.	
Den					0,00р.	<b>3 999,00р.</b>
<b>Итого</b>	1 000,00р.	4 900,00р.	6 200,00р.	1 200,00р.	13 300,00р.	5 299,00р.

7.8

" - " :

OnAfterPrint	.
OnBeforePrint	.
OnCalcHeight	0 ,
OnCalcWidth	0
OnPrintCell	.
OnPrintColumnHeader	.
OnPrintRowHeader	.

" - ":

<b>function</b> ColCount: Integer	.
<b>function</b> RowCount: Integer	.
<b>function</b> IsGrandTotalColumn (Index: Integer): Boolean	True,

<b>function</b> IsGrandTotalRow (Index: Integer): Boolean	True,
<b>function</b> IsTotalColumn (Index: Integer): Boolean	True,
<b>function</b> IsTotalRow (Index: Integer): Boolean	True,
<b>procedure</b> AddValue(const Rows, Columns, Cells: <b>array of</b> Variant)	

(  
-  
1999  
OnPrintCell:

*Pascal script:*

```
procedure Cross1OnPrintCell(Memo: TfrxMemoView;
  RowIndex, ColumnIndex, CellIndex: Integer;
  RowValues, ColumnValues, Value: Variant);
begin
  if ColumnIndex = 2 then
    Memo.Color := clRed;
end;
```

*C++ Script:*

```
void Cross1OnPrintCell(
  TfrxMemoView Memo,
  int RowIndex,
  int ColumnIndex,
  int CellIndex,
  Variant RowValues,
  Variant ColumnValues,
  Variant Value)
{
  if (ColumnIndex == 2) { Memo.Color = clRed; }
}
```

:



	1999				Total
	2	10	11	12	
Ann	1000		1100	1200	3300
Ben		2100	2200		4300
Catherine		3000	3100		6100
Den					0
<b>Grand Total</b>	<b>1000</b>	<b>5100</b>	<b>6400</b>	<b>1200</b>	<b>13700</b>

OnPrintColumnHeader:

*Pascal script:*

```

procedure Cross1OnPrintColumnHeader(Memo: TfrxMemoView;
  HeaderIndexes, HeaderValues, Value: Variant);
begin
  if (VarToStr(HeaderValues[0]) = '1999') and
    (VarToStr(HeaderValues[1]) = '11') then
    Memo.Color := clRed;
end;

```

*C++ Script:*

```

void Cross1OnPrintColumnHeader(
  TfrxMemoView Memo,
  Variant HeaderIndexes,
  Variant HeaderValues,
  Variant Value)
{
  if ((VarToStr(HeaderValues[0]) == "1999") &&
    (VarToStr(HeaderValues[1]) == "11"))
  {
    Memo.Color = clRed;
  }
}

```

:

	1999				Total
	2	10	11	12	
Ann	1000		1100	1200	3300
Ben		2100	2200		4300
Catherine		3000	3100		6100
Den					0
<b>Grand Total</b>	<b>1000</b>	<b>5100</b>	<b>6400</b>	<b>1200</b>	<b>13700</b>

OnPrintCell

```

        OnPrintRowHeader).
        OnPrintCell
        (
            Memo),
        (
           RowIndex,
            ColumnIndex, CellIndex
            RowValues ColumnValues.
            Value -
            (RowIndex, ColumnIndex),
            (RowValues, ColumnValues) -
            0, ColumnIndex = 2
            11 1999 ):

```

*Pascal script:*

```

procedure Cross1OnPrintCell(Memo: TfrxMemoView;
    RowIndex, ColumnIndex, CellIndex: Integer;
    RowValues, ColumnValues, Value: Variant);
begin
    if (VarToStr(ColumnValues[0]) = '1999') and
        (VarToStr(ColumnValues[1]) = '11') then
        Memo.Color := clRed;
end;

```

*C++ Script:*

```

void Cross1OnPrintCell(
    TfrxMemoView Memo,
    int RowIndex,
    int ColumnIndex,
    int CellIndex,
    Variant RowValues,
    Variant ColumnValues,
    Variant Value)
{
    if ((VarToStr(ColumnValues[0]) == "1999") &&
        (VarToStr(ColumnValues[1]) == "11"))
    {
        Memo.Color = clRed;
    }
}

```

```

        RowValues ColumnValues -
        Variant
        ColumnValues[0] - , ColumnValues[1] -

```

```

    VarToStr?
    . FastReport
    Variant
    'Total' 'Grand Total'.

    OnPrintColumnHeader
    OnPrintCell,
    " " ( HeaderIndexes, HeaderValues)
    HeaderValues , ColumnValues,
    RowValues OnPrintCell. HeaderIndexes
    Variant :
    - - , :
    - :
    , :

```

	0					1				2			
	0	1	2	3	4	0	1	2	3	0	1	2	3
0	1000		1100	1200	<b>3300</b>	1300	1400		<b>2700</b>		1500	1600	<b>3100</b>
1		2100	2200		<b>4300</b>		2400		<b>2400</b>				<b>0</b>
2		3000	3100		<b>6100</b>			3200	<b>3200</b>				<b>0</b>
3					<b>0</b>	3999			<b>3999</b>	4000	4100		<b>8100</b>
4	<b>1000</b>	<b>5100</b>	<b>6400</b>	<b>1200</b>	<b>13700</b>	<b>5299</b>	<b>3800</b>	<b>3200</b>	<b>12299</b>	<b>4000</b>	<b>5600</b>	<b>1600</b>	<b>11200</b>

HeaderValues,

:

*Pascal script:*

```

procedure Cross1OnPrintColumnHeader(Memo: TfrxMemoView;
  HeaderIndexes, HeaderValues, Value: Variant);
begin
  if (HeaderIndexes[0] = 0) and (HeaderIndexes[1] = 2) then
    Memo.Color := clRed;
end;

```

*C++ Script:*

```

void Cross1OnPrintColumnHeader(
  TfrxMemoView Memo,
  Variant HeaderIndexes,
  Variant HeaderValues,
  Variant Value)
{
  if ((HeaderIndexes[0] == 0) && (HeaderIndexes[1] == 2)) { Memo.Color =
  clRed; }
}

```

OnCalcWidth, OnCalcHeight

11 1999  
OnCalcWidth:

*Pascal script:*

```

procedure Cross1OnCalcWidth(ColumnIndex: Integer;
  ColumnValues: Variant; var Width: Extended);
begin
  if (VarToStr(ColumnValues[0]) = '1999') and
    (VarToStr(ColumnValues[1]) = '11') then
    Width := 100;
end;

```

*C++ Script:*

```

void Cross1OnCalcWidth(
int ColumnIndex,
variant ColumnValues,
Extended &Width)
{
  if ((VarToStr(ColumnValues[0]) == "1999") &&
    (VarToStr(ColumnValues[1]) = "11"))
  {
    Width = 100;
  }
}

```

:

	1999				
	2	10	11	12	Total
Ann	1000		1100	1200	<b>3300</b>
Ben		2100	2200		<b>4300</b>
Catherine		3000	3100		<b>6100</b>
Den					<b>0</b>
<b>Grand Total</b>	<b>1000</b>	<b>5100</b>	<b>6400</b>	<b>1200</b>	<b>13700</b>

Width := 0.

## 7.9

Редактор Cross-tab

Размерность

Строки: 1

Колонки: 2

Ячейки: 1

Структура таблицы

Column1:  Подитоги A-Я

Column2:  A-Я

Row:  A-Я

Cell:  Sum

Выберите стиль

Salary	Year, Month		
Employee	[Column1]		Grand Total
	[Column2]	Total	
[Row]	0	0	0
<b>Grand Total</b>	0	0	0

- Заголовок таблицы
- Угол таблицы
- Заголовок колонки
- Заголовок строки
- Итог колонки
- Итог строки
- Авто-размер
- Рамка вокруг ячеек
- Печатать вниз, потом вбок
- Повторять заголовки на новой странице
- Ячейки одной строкой
- Объединять одинаковые ячейки

OK Отмена

– 1. OnBeforePrint

*PascalScript:*

```

procedure Cross1OnBeforePrint(Sender: TfrxComponent);
begin
  with Cross1 do
    begin
      AddValue(['Ann'], [2001, 2], [1500]);
      AddValue(['Ann'], [2001, 3], [1600]);
      AddValue(['Ann'], [2002, 1], [1700]);

      AddValue(['Ben'], [2002, 1], [2000]);

      AddValue(['Den'], [2001, 1], [4000]);
      AddValue(['Den'], [2001, 2], [4100]);
    end;
  end;

```

*C++ Script:*

```

void Cross1OnBeforePrint(TfrxComponent Sender)
{
  Cross1.AddValue(["Ann"], [2001, 2], [1500]);
  Cross1.AddValue(["Ann"], [2001, 3], [1600]);
  Cross1.AddValue(["Ann"], [2002, 1], [1700]);

  Cross1.AddValue(["Ben"], [2002, 1], [2000]);

  Cross1.AddValue(["Den"], [2001, 1], [4000]);
  Cross1.AddValue(["Den"], [2001, 2], [4100]);
}

```

TfrxCrossView.AddValue.

Variant.

AddValue

Salary	Year, Month						Grand Total
	2001			2002		Grand Total	
Employee	1	2	3	Total	1		Total
Ann		1500	1600	3100	1700	1700	4800
Ben				0	2000	2000	2000
Den	4000	4100		8100		0	8100
<b>Grand Total</b>	4000	5600	1600	11200	3700	3700	14900

AddValue

7.10

Зарплата Сотрудник	Год				Итого
	1999	2000	2001	2002	
Ann	■■■ 3 300,00р.	■■ 2 700,00р.	■■■ 3 100,00р.	■■ 1 700,00р.	10 800,00р.
Ben	■■■ 3 900,00р.	■■ 2 100,00р.	■	■■ 1 800,00р.	7 800,00р.
Catherine	■■■ 6 100,00р.	■■■ 3 200,00р.	■	■	9 300,00р.
Den	■	■■■ 3 999,00р.	■■■ 8 100,00р.	■	12 099,00р.
<b>Итого</b>	13 300,00р.	11 999,00р.	11 200,00р.	3 500,00р.	39 999,00р.

3000.

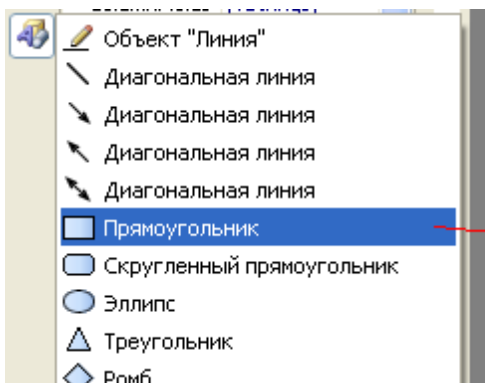
100, - 3000, -

Структура таблицы

	Year <input type="checkbox"/> A-Я
Name <input type="checkbox"/> A-Я	Salary <input type="checkbox"/> Sum

" - " (AutoSize).

Зарплата	Год	
Сотрудник	[Year]	Итого
[Name]	0,00р.	0,00р.
<b>Итого</b>	0,00р.	0,00р.

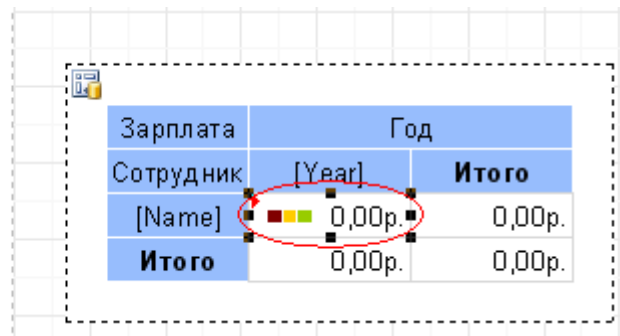
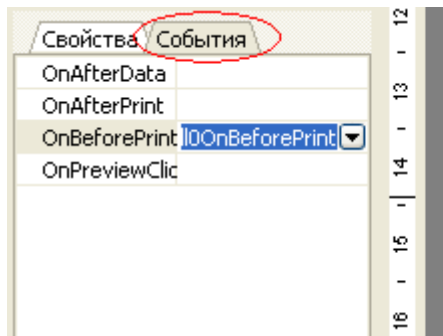


Зарплата	Год	
Сотрудник	[Year]	Итого
[Name]	0,00р.	0,00р.
<b>Итого</b>	0,00р.	0,00р.

Зарплата	Год	
Сотрудник	[Year]	Итого
[Name]	0,00р.	0,00р.
<b>Итого</b>	0,00р.	0,00р.

OnBeforePrint:





(  
):

```

procedure DBCross1Cell10OnBeforePrint(Sender: TfrxComponent);
begin
  // Value -
  if Value < 100 then
  begin
    //
    DBCross1Object1.Color := clMaroon; //
    //
    DBCross1Object2.Color := clWhite;
    //
    DBCross1Object3.Color := clWhite;
  end
  else if Value < 3000 then
  begin
    DBCross1Object1.Color := $00CCFF; //
    DBCross1Object2.Color := $00CCFF;
    DBCross1Object3.Color := clWhite;
  end
  else
  begin
    DBCross1Object1.Color := $00CC98; //
    DBCross1Object2.Color := $00CC98;
    DBCross1Object3.Color := $00CC98;
  end;
end;

```

## 7.11

- Заголовок таблицы
- Угол таблицы
- Заголовок колонки
- Заголовок строки
- Итог колонки
- Итог строки
  
- Авто-размер
- Рамка вокруг ячеек
- Печатать вниз, потом вбок
- Повторять заголовки на новой странице
- Ячейки одной строкой
- Объединять одинаковые ячейки

Зарплата Сотрудник	Год				Сумма
	1999	2000	2001	2002	
Ann	3 300,00р.	2 700,00р.	3 100,00р.	1 700,00р.	10 800,00р.
Ben	3 900,00р.	2 100,00р.		1 800,00р.	7 800,00р.
Catherine	6 100,00р.	3 200,00р.			9 300,00р.
Den		3 999,00р.	8 100,00р.		12 099,00р.
<b>Сумма</b>	13 300,00р.	11 999,00р.	11 200,00р.	3 500,00р.	39 999,00р.

1) " , " - :

1			3		
Salary			Year		
Employee	1999	2000	2001	2002	Grand Total
Ann	3 300,00p.	2 700,00p.	3 100,00p.	1 700,00p.	10 800,00p.
Ben	3 900,00p.	2 100,00p.		1 800,00p.	7 800,00p.
Catherine	6 100,00p.	3 200,00p.			9 300,00p.
Den		3 999,00p.	3 100,00p.		12 099,00p.
<b>2 Grand Total</b>	13 300,00p.	11 999,00p.	6 200,00p.	3 500,00p.	39 999,00p.

2) " , " - :

1			2		
Salary			Year		
Employee	1999	2000	2001	2002	Grand Total
Ann	3 300,00p.	2 700,00p.	3 100,00p.	1 700,00p.	10 800,00p.
Ben	3 900,00p.	2 100,00p.		1 800,00p.	7 800,00p.
Catherine	6 100,00p.	3 200,00p.			9 300,00p.
Den		3 999,00p.	3 100,00p.		12 099,00p.
<b>3 Grand Total</b>	13 300,00p.	11 999,00p.	6 200,00p.	3 500,00p.	39 999,00p.

" " , "

" " ,  
 ) . , ( )  
 " "  
 :

Дни	Год				Сумма
	1999	2000	2001	2002	
Ann	3		4	2	12
Ben	4	2		2	8
Catherine	6	3			9
Den		4	7		11
<b>Сумма</b>	13	12	11	4	40

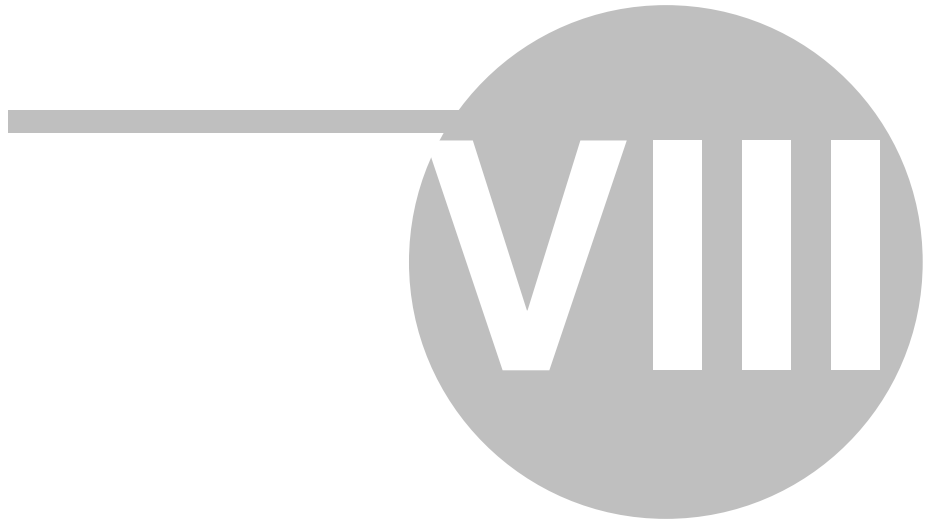
:

- AddWidth, AddHeight -

AutoSize True;

- NextCross -

- NextCrossGap -



,

FastReport

TfrxChartObject



TeeChart,

TeeChartPro,

FastReport.

Delphi.

country

DBDEMOS.

<b>Name</b>	<b>Area</b>	<b>Population</b>
Argentina	2 777 815	32 300 003
Bolivia	1 098 575	7 300 000
....		

Delphi.

TTable,

TfrxDBDataSet, TfrxReport

:

Table1:

*DatabaseName = 'DBDEMOS'*

*TableName = 'country.db'*

frxDBDataSet1:

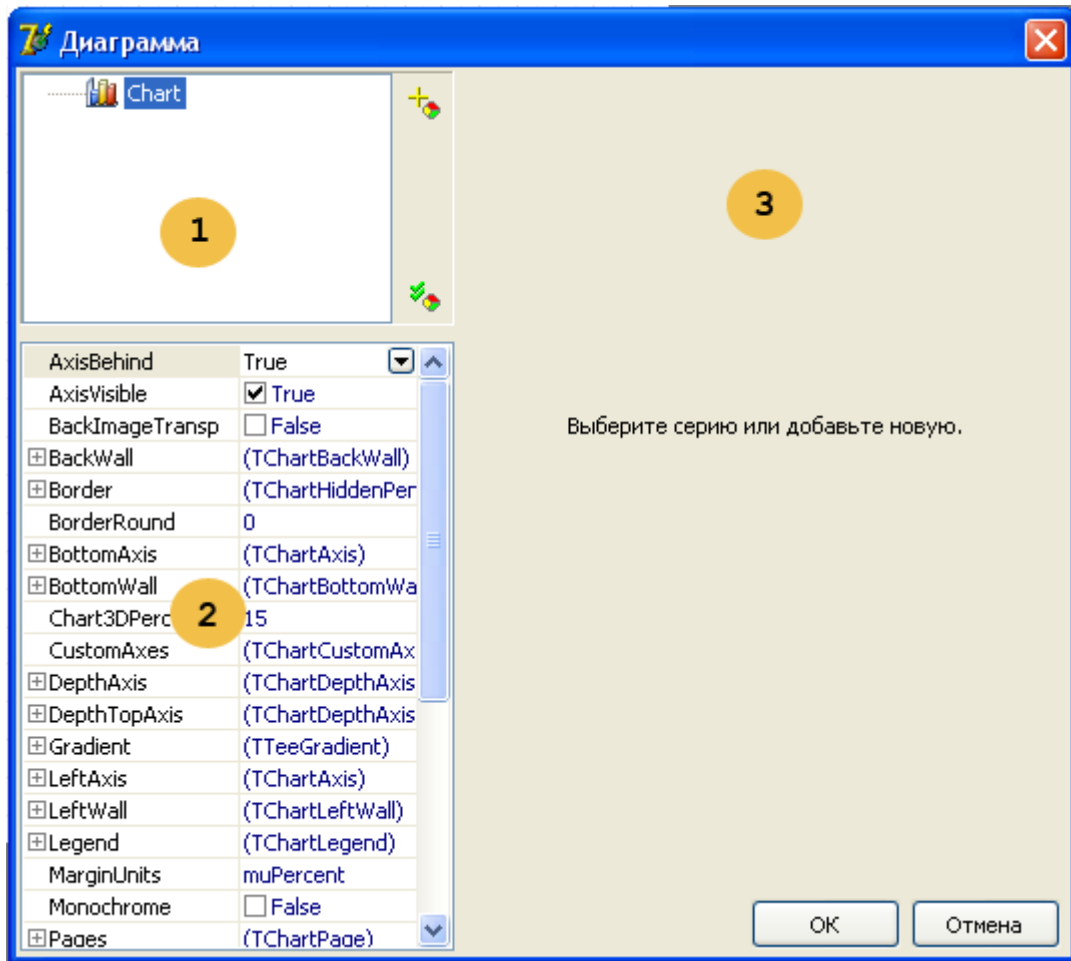
*DataSet = Table1*

*UserName = 'Country'*

" | ...".  
- 18 8 .

" " .

,



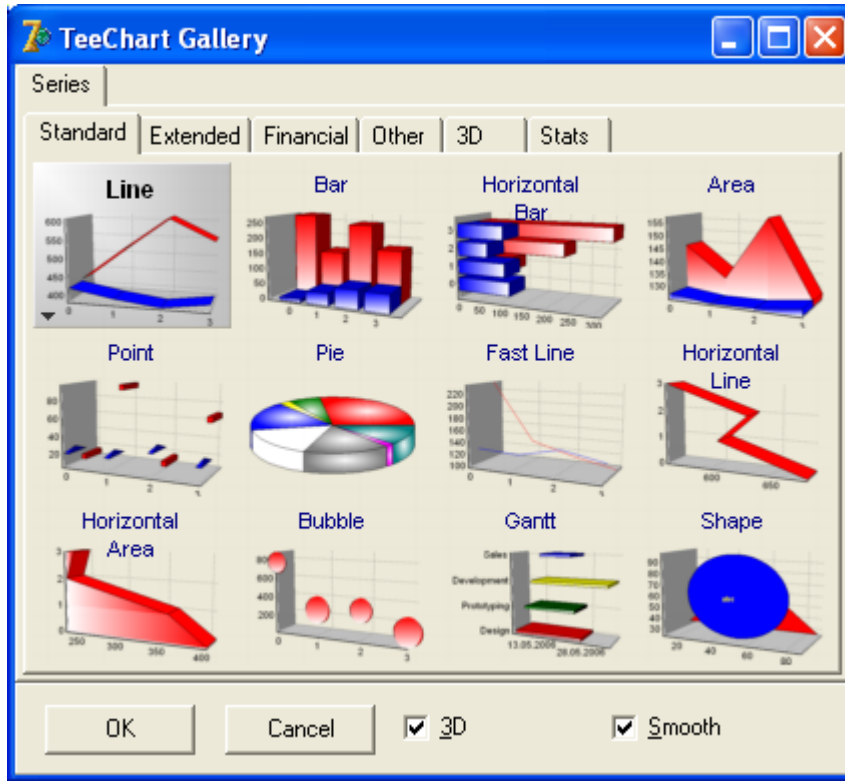
1 –  
(series).

2 –

3 –

1.

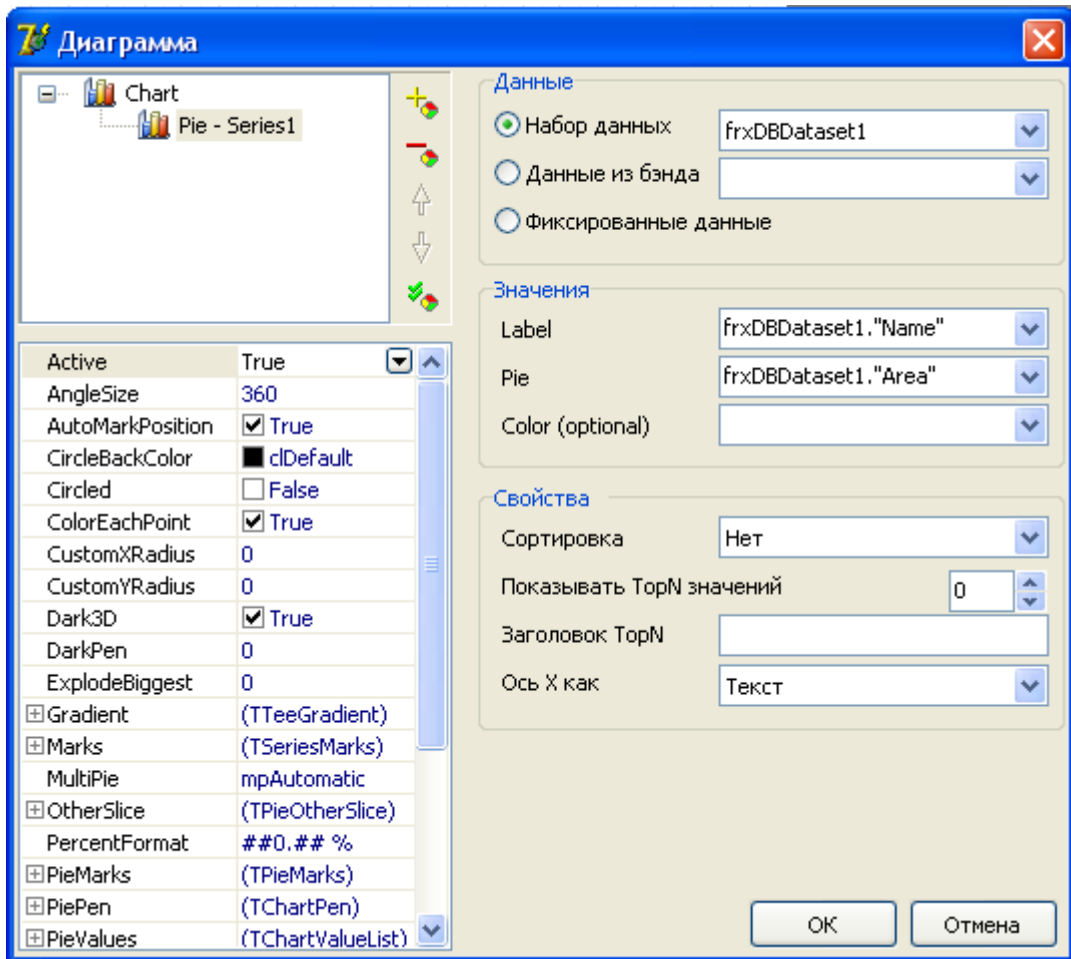




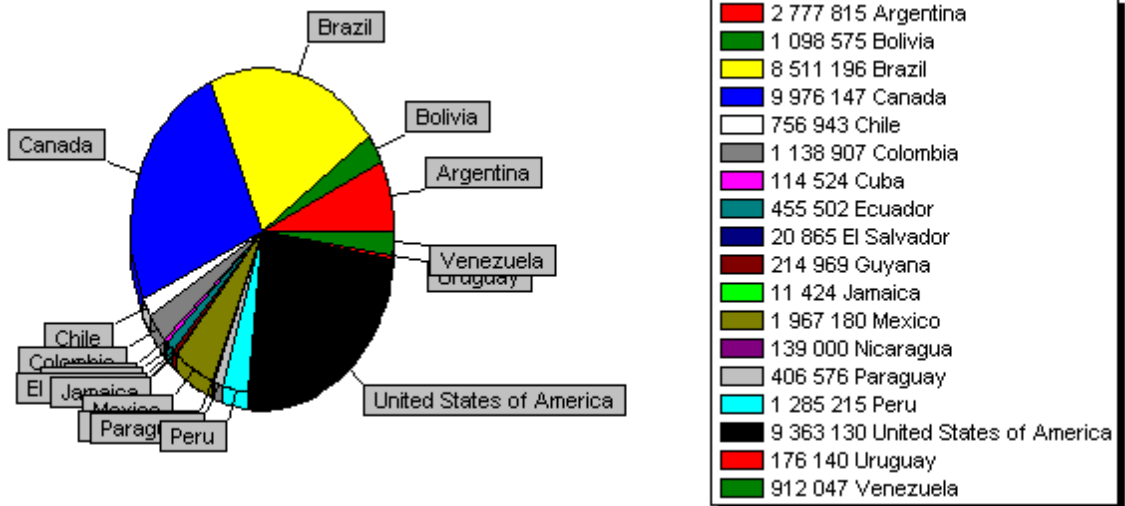
3

"Label" "Pie"  
:





( "Label"  
 "Pie". "Color",  
 " "



? - ,

:

Свойства

Сортировка

, ,

## 8.1

FastReport

18

8

Свойства

Сортировка

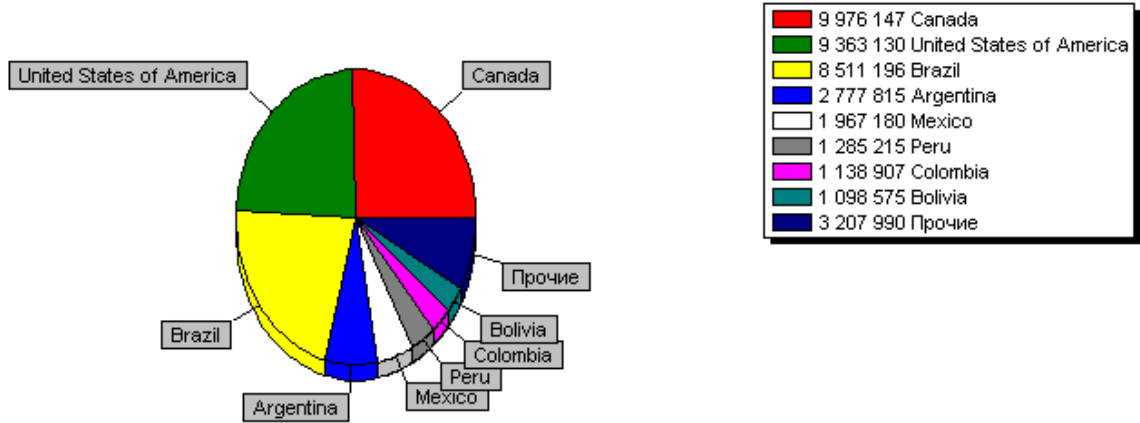
Показывать TopN значений

Заголовок TopN

Ось X как

"TopN"

"TopN"



## 8.2

- Gradient -

Gradient.Visible.

- Legend -

Legend.Visible.

Legend.Alignment.

- ColorEachPoint -

- ExplodeBiggest -

").

- Marks -

- ValueFormat -

TeeChart Pro,

## 8.3



**Данные**

Набор данных

Данные из бэнда

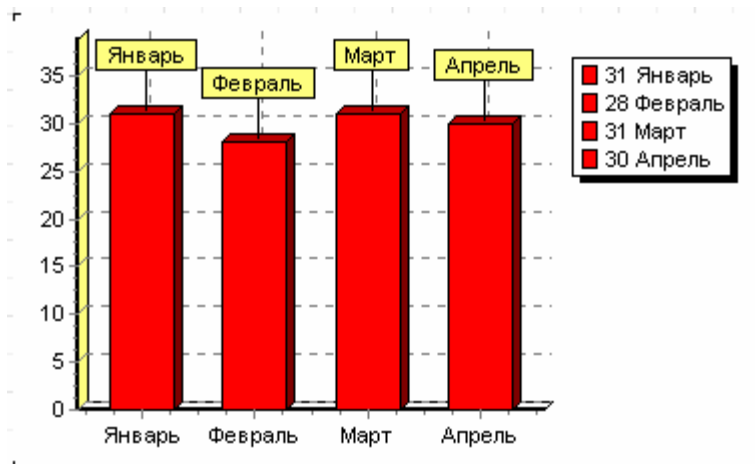
Фиксированные данные

**Значения**

Label: Январь;Февраль;Март;Апр

Y: 31;28;31;30

X (optional):



## 8.4

X, Y.

:

*PascalScript:*

```

begin
  Chart1.SeriesData[0].Source1 := '          ;          ;          ';
  Chart1.SeriesData[0].Source2 := '31;28;31;30';
end.

```

*C++Script:*

```

{
  Chart1.SeriesData[0].Source1 = "          ;          ;          ";
  Chart1.SeriesData[0].Source2 = "31;28;31;30";
}

```

SeriesData[0]

SeriesData[ \_ ].

## 8.5

## Delphi

Delphi

TfrxReport.OnBeforePrint:

```

procedure TForm1.frxReport1BeforePrint(Sender: TfrxReportComponent);
begin
  if Sender.Name = 'Picture1' then
    TfrxPictureView(Sender).Picture.Assign(
      Chart1.TeeCreateMetafile(False,
        Rect(0, 0, Round(Sender.Width), Round(Sender.Height))));
end;

```

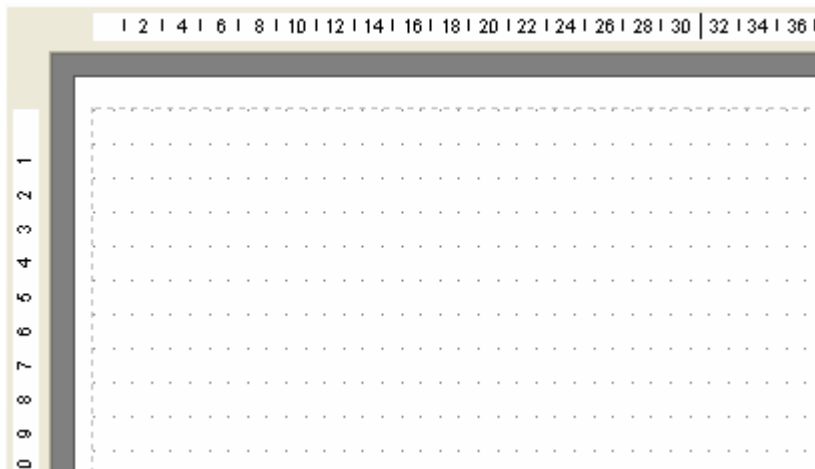
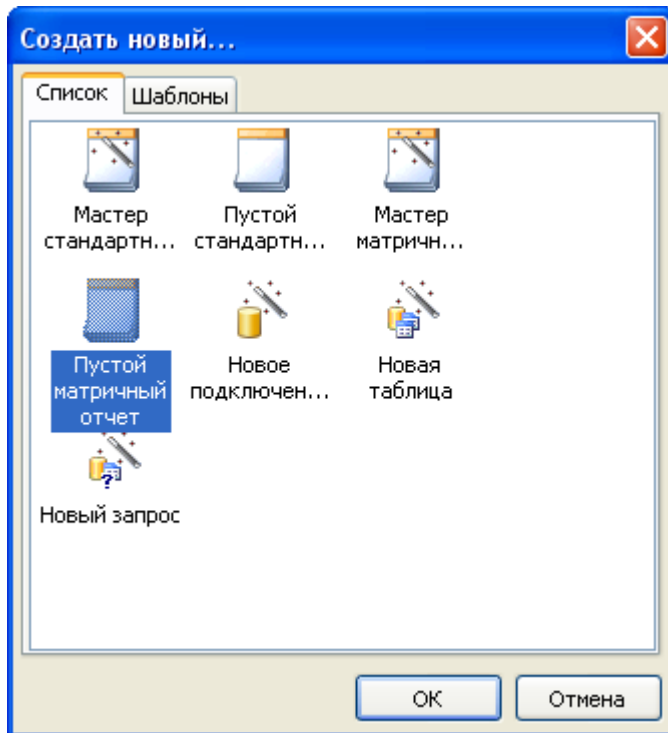
Picture1 – " ", Chart1 – .



```

        (
            ,
        ).
        . FastReport
    ,
    .
    .
    «
    »,
    «
    ».
    .
    Delphi,
    TTable, TfrxDBDataSet, TfrxReport, TfrxDotMatrixExport
:
TTable:
    DatabaseName = 'DBDEMOS'
    TableName = 'Customer.db'
TfrxDBDataSet:
    DataSet = Table1
    UserName = 'Customers'
    «
    »:
    “
    |
    ...”

```



« » , « » , «ESC-

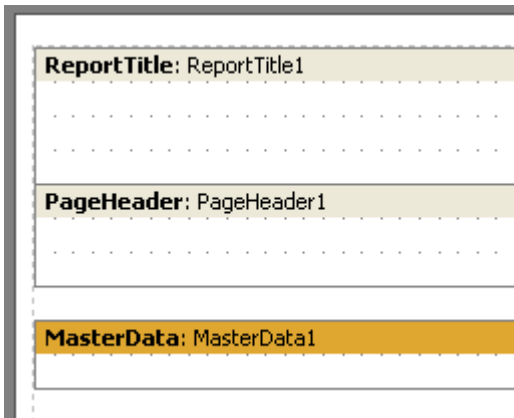
» , «

» « - ».

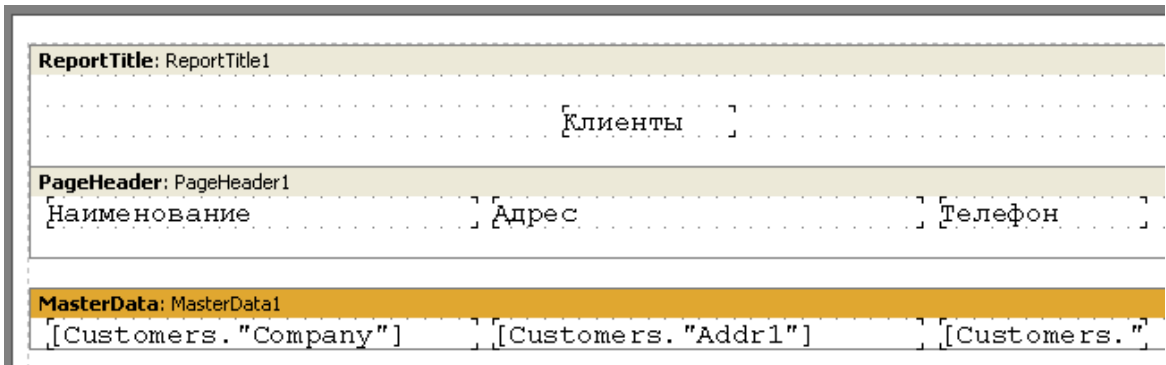




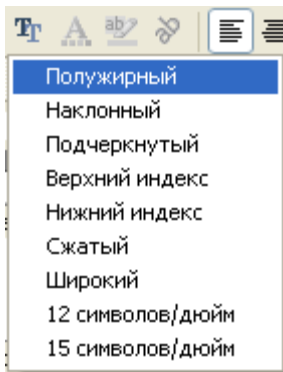
Report title, Page header, Master data:



« » :



, ,  
 ,  
 « » T



### Клиенты

Наименование	Адрес	Телефон
Action Club	PO Box 5451-F	813-870-0239
Action Diver Supply	Blue Spar Box #3	22-44-500211
Adventure Undersea	PO Box 744	011-34-09054
American SCUBA Supply	1739 Atlantic Avenue	213-654-0092
Aquatic Drama	921 Everglades Way	613-442-7654

## 9.1

Редактор Cross-tab

Данные

Cross

- Month
- Days
- Salary

Структура таблицы

Year A-Я

Name A-Я

Salary Sum

Зарплата	Год	
Сотрудник	[Year]	Итого
[Name]	0	0
Итого	0	0

- Заголовок таблицы
- Угол таблицы
- Заголовок колонки
- Заголовок строки
- Итого колонки
- Итого строки
- Авто-размер
- Рамка вокруг ячеек
- Печатать вниз, потом вбок
- Повторять заголовки на новой странице
- Ячейки одной строкой
- Объединять одинаковые ячейки

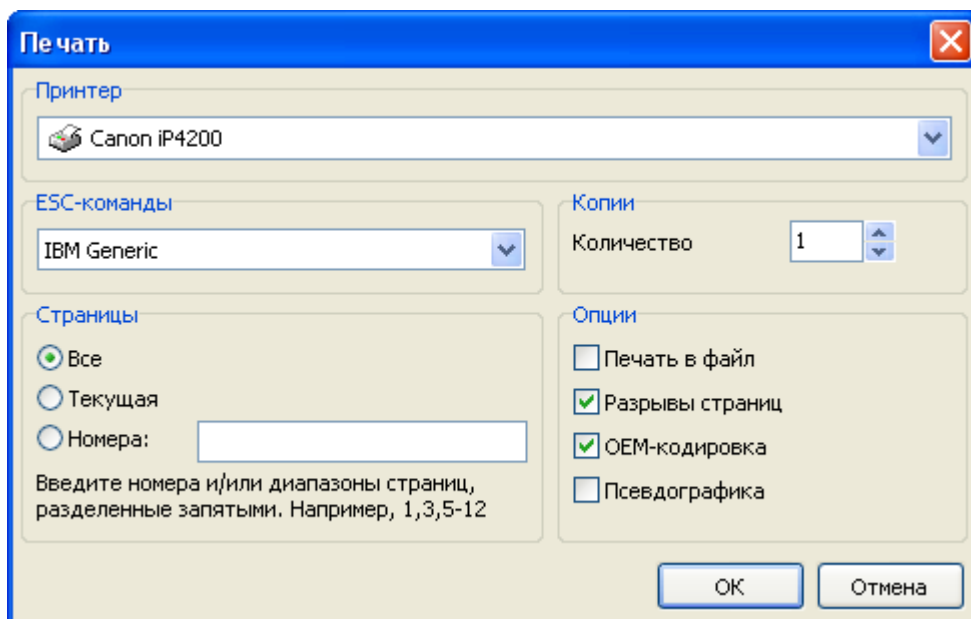
OK Отмена



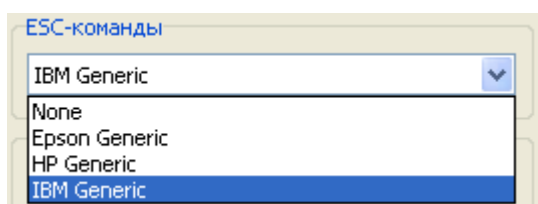
Зарплата	Год				
Сотрудник	1999	2000	2001	2002	Итого
Ann	3300	2700	3100	1700	10800
Ben	3900	2100		1800	7800
Catherine	6100	3200			9300
Den		3999	8100		12099
Итого	13300	11999	11200	3500	39999

## 9.2

), ( . . .  
 TfrxDotMatrixExport  "FastReport 4.0".



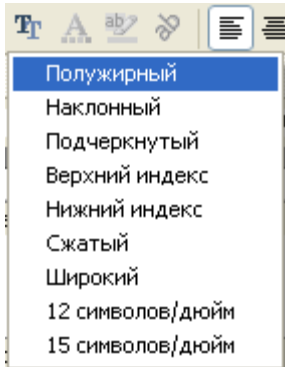
(ESC- ).



;  
 - - - , ;  
 - - - , ;  
 , - , + .

### 9.3 « »

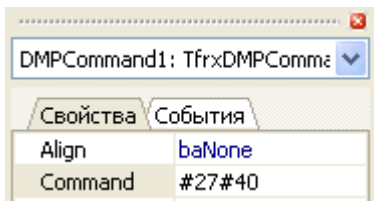
, :



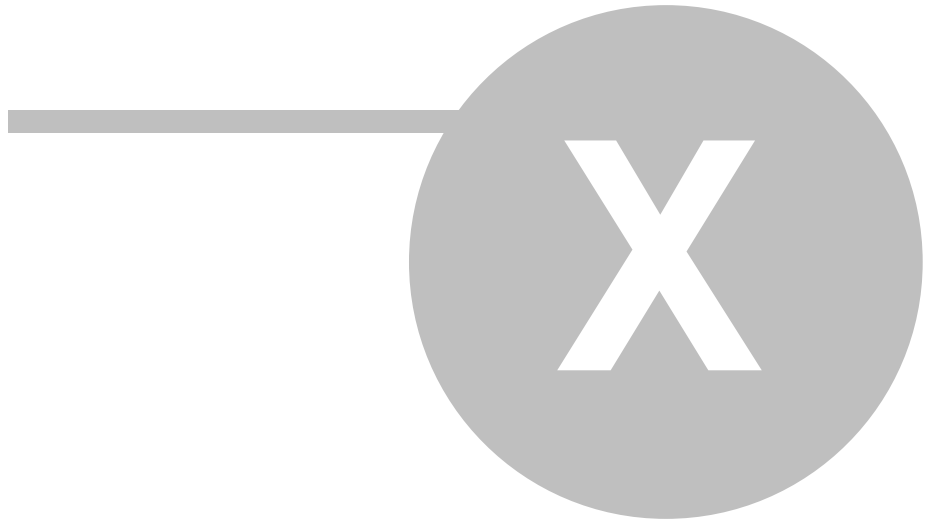
, , 20 ,

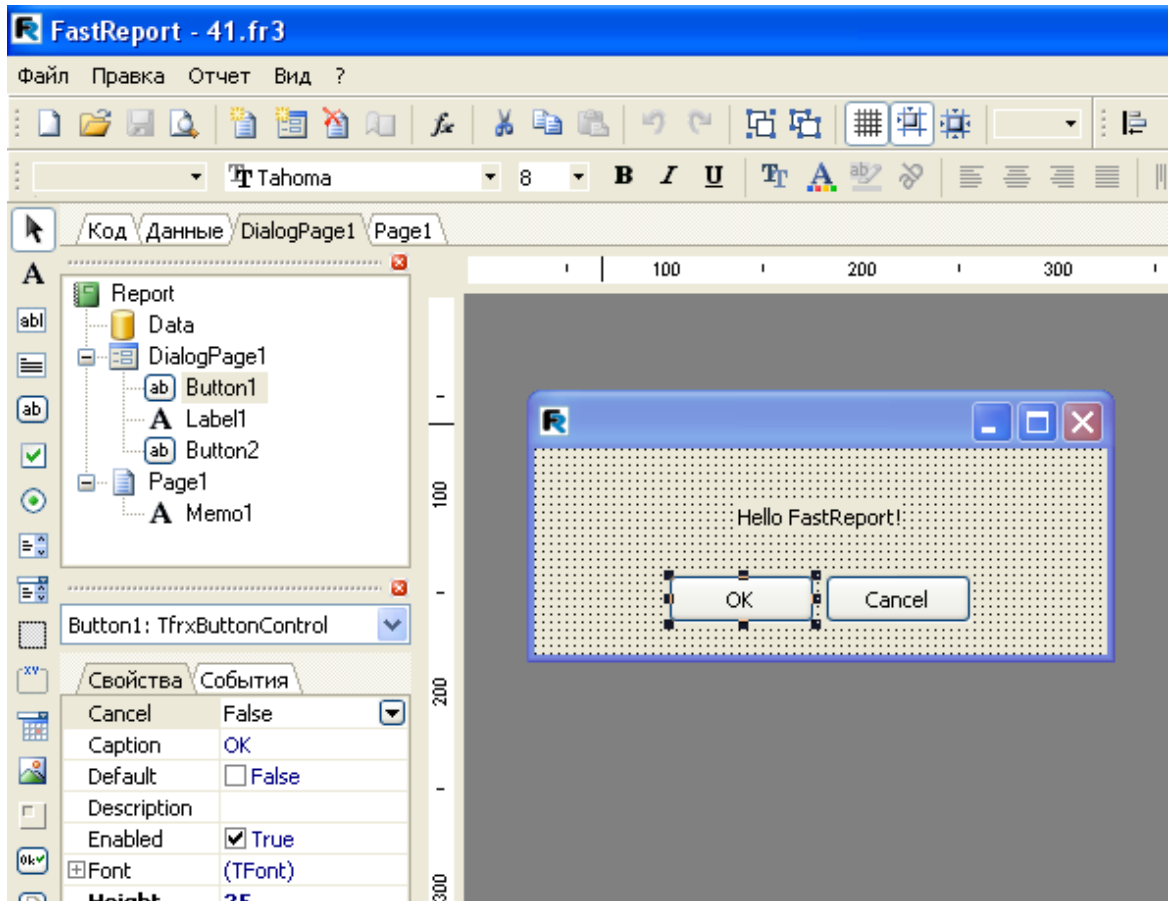
«ESC- » #1B.

( , Command



( , #27#40) (1B28).





## 10.1













TfrxDialogControls








FastReport.

uses frxDCtrl.

:

	TfrxLabelControl	
	TfrxEditControl	
	TfrxMemoControl	
	TfrxButtonControl	
	TfrxCheckBoxControl	
	TfrxRadioButtonControl	
	TfrxListBoxControl	
	TfrxComboBoxControl	
	TfrxDateEditControl	
	TfrxGroupBoxControl	
	TfrxPanelControl	
	TfrxBitBtnControl	



	TfrxSpeedButtonControl	
	TfrxMaskEditControl	
	TfrxCheckListBoxControl	
	TfrxBevelControl	
	TfrxImageControl	WMF, EMF. BMP, ICO,

Delphi.

FastReport.

## 10.2 "Hello, World!"

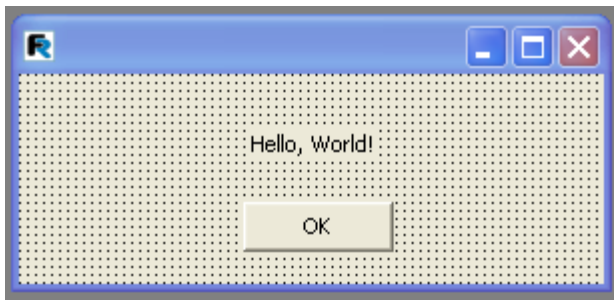
Delphi,

FastReport

: TfrxReport, TfrxDialogControls.

TfrxReport  
TfrxLabelControl,

TfrxButtonControl:



TfrxLabelControl:  
*Caption = 'Hello, World!'*

TfrxButtonControl:  
*Caption = 'OK'*

*Default = True*

*ModalResult = mrOk*

BorderStyle = bsDialog.

Delphi.

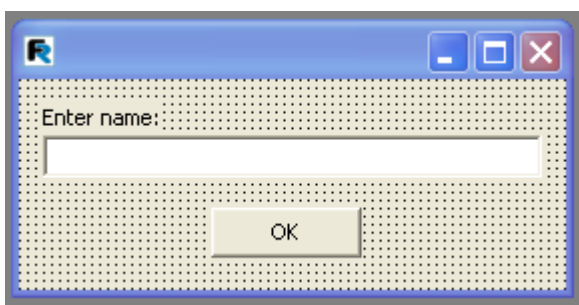


FastReport:

ModalResult = mrOk.  
mrOk.

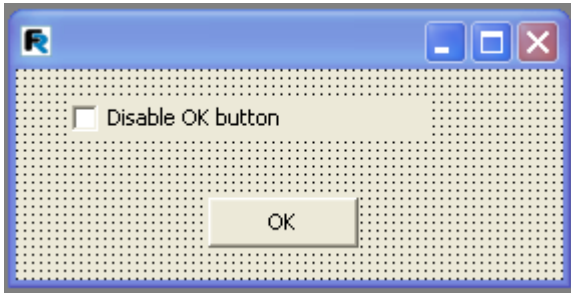
ModalResult

### 10.3



*You've entered:*  
*[Edit1.Text]*

## 10.4



OnClick, "CheckBox" –  
:

*PascalScript:*

```
procedure CheckBox1OnClick(Sender: TfrxComponent);
begin
  Button1.Enabled := not CheckBox1.Checked;
end;
```

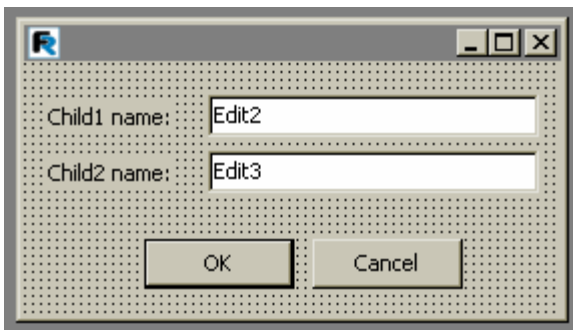
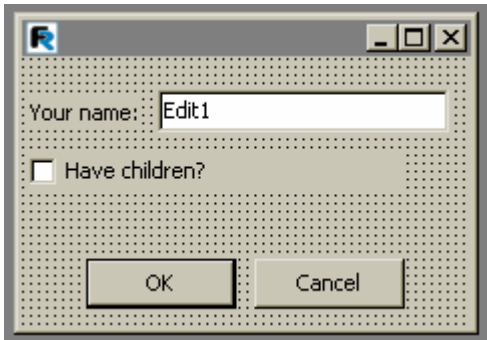
*C++ Script:*

```
void CheckBox1OnClick(TfrxComponent Sender)
{
  Button1.Enabled = !CheckBox1.Checked;
}
```

Delphi.

### 10.5

Name:	[Edit1.Text]
Child1 name:	[Edit2.Text]
Child2 name:	[Edit3.Text]



```

        OK   Cancel
    ).
    (      ),
    (      ).
    .
    FastReport -
    ,
    (
    ModalResult = mrOk).
    (      Cancel      ),
    .
    
```

## 10.6

```

        , "Have children" , ,
        , ( ,
        ): ,

```

*PascalScript:*

```

procedure Button1OnClick(Sender: TfrxComponent);
begin
    DialogPage2.Visible := CheckBox1.Checked;
end;

```

*C++Script:*

```

void Button1OnClick(TfrxComponent Sender)
{
    DialogPage2.Visible = CheckBox1.Checked;
}

```

```

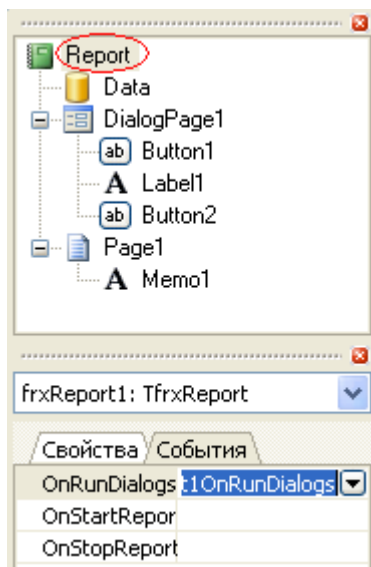
(DialogPage2),

```

```

        OnRunDialogs.
Report
" " ,
: OnRunDialogs

```



:

*PascalScript:*

```

procedure frxReport1OnRunDialogs(var Result: Boolean);
begin
  Result := DialogPage1.ShowModal = mrOk;
  if Result then
  begin
    if CheckBox1.Checked then
      Result := DialogPage2.ShowModal = mrOk;
    end;
  end;

```

*C++Script:*

```

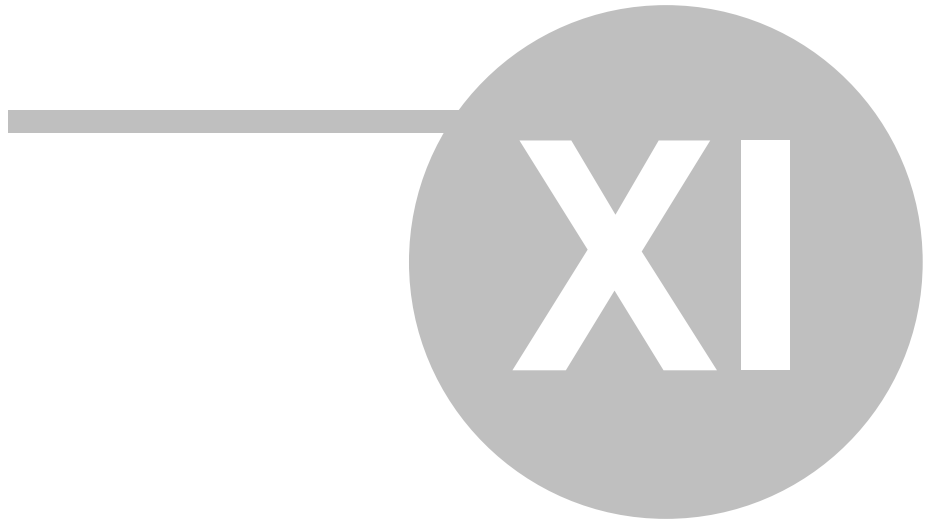
void frxReport1OnRunDialogs(bool &Result);
{
  Result = DialogPage1.ShowModal == mrOk;
  if (Result)
  {
    if (CheckBox1.Checked)
      Result = DialogPage2.ShowModal == mrOk;
  }
}

```

:

;     Result = False,

 CheckBox1  
 Result = True,

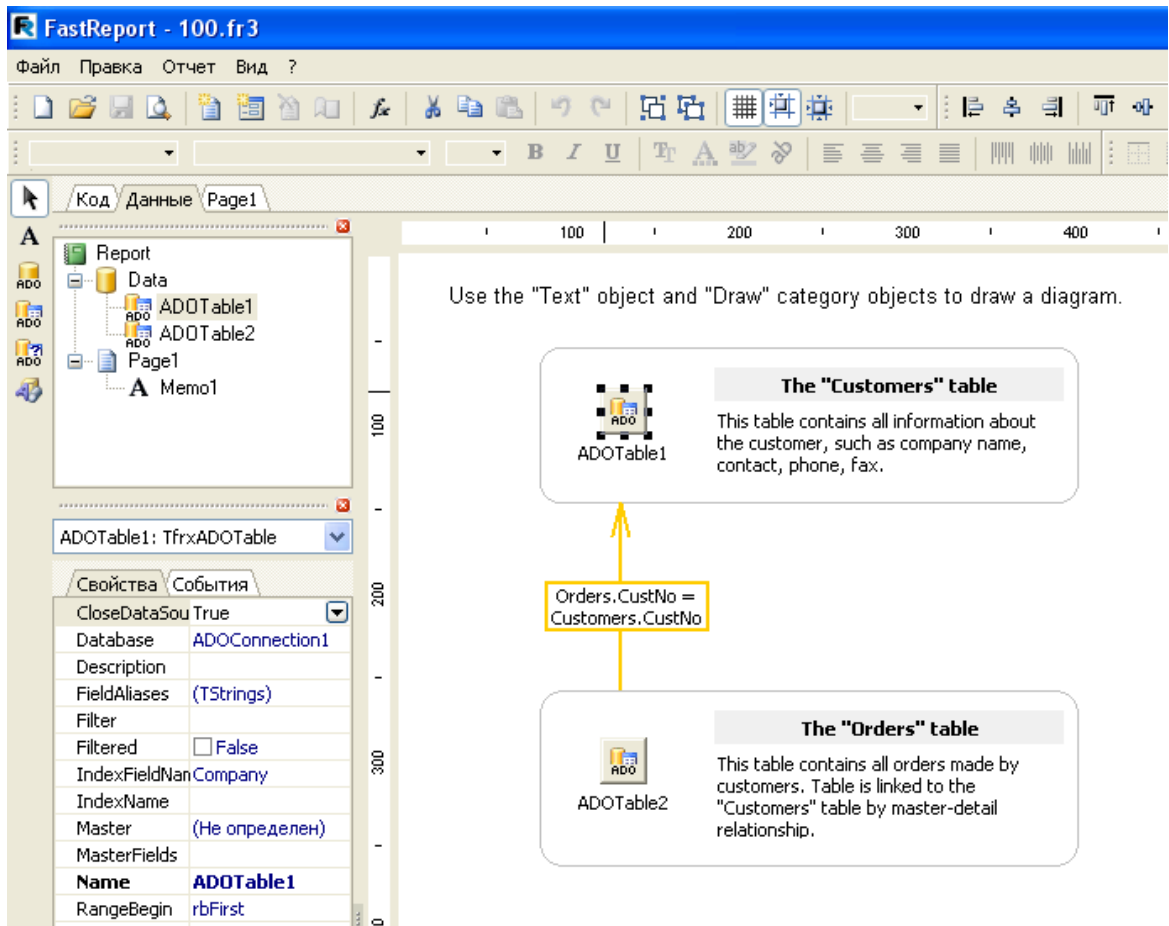


Delphi  
FastReport.

TTable TQuery,  
TDataSet.

run-time. FastReport

Delphi. Delphi,





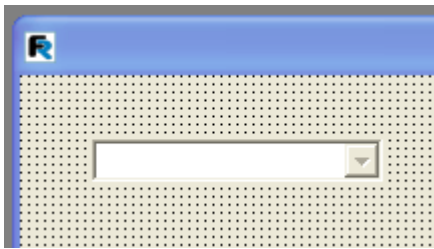
# 11.1

DBX, FIB ADO. FR BDE, IBX,

TfrxADOComponents ADO FastReport.  
 TfrxADOTable, TfrxADOQuery, TfrxADODataBase. : TfrxDBLookupComboBox,  
 (TDBLookupComboBox, TADOTable, TADOQuery, TADOConnection). Delphi

	TfrxDBLookupComboBox	,
	TfrxADOTable	.
	TfrxADOQuery	SQL-
	TfrxADODataBase	.

## 11.1.1 TfrxDBLookupComboBox



DataSet	,

ListField	, .
KeyField	, .
KeyValue	, .
Text	, .
AutoOpenDataSet	True, OnActivate

: DataSet, ListField KeyField.  
Text KeyValue, KeyValue

### 11.1.2 TfrxADOTable

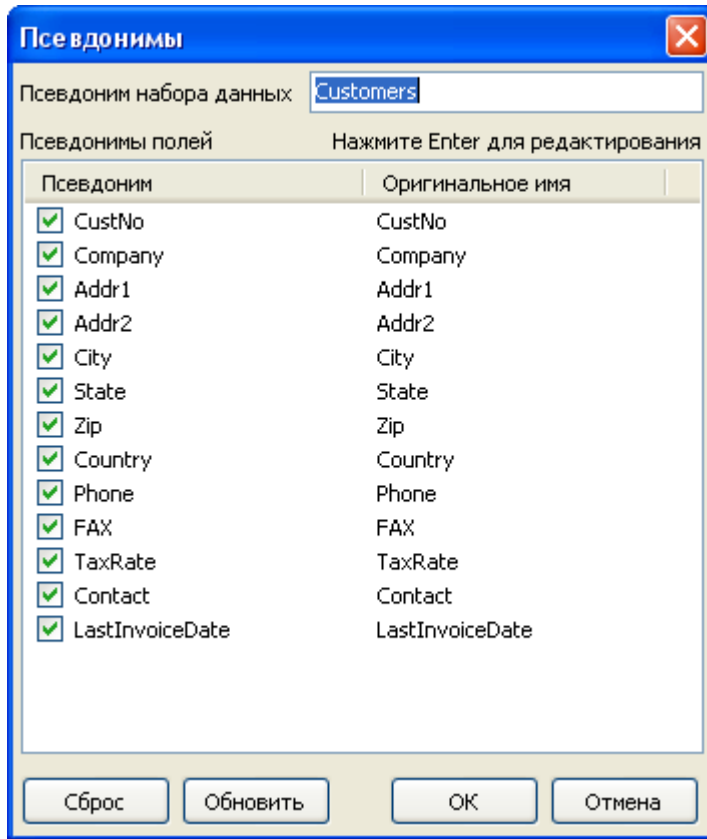
Database	( TfrxADODatabase).
FieldAliases	.
Filter	.
Filtered	, .
IndexFieldNames	, .
IndexName	.
MasterFields	, master- .
Master	- .
TableName	.
UserName	( ) .

Delphi TADOTable.

Database TableName.  
Active := True

Open.

## FieldAliases



MasterFields

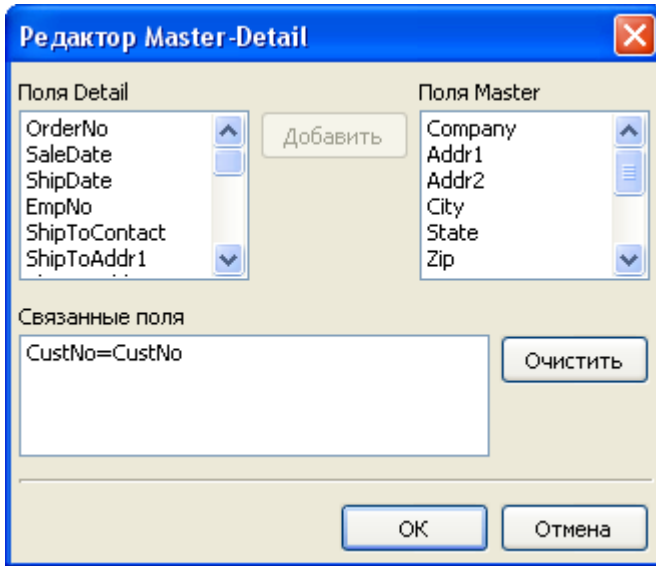
master-detail

master-detail

Master

MasterFields

IndexName.



master detail  
 Master-Detail,  
 master detail  
 , master  
 (detail ),  
 (master ),  
 " " .

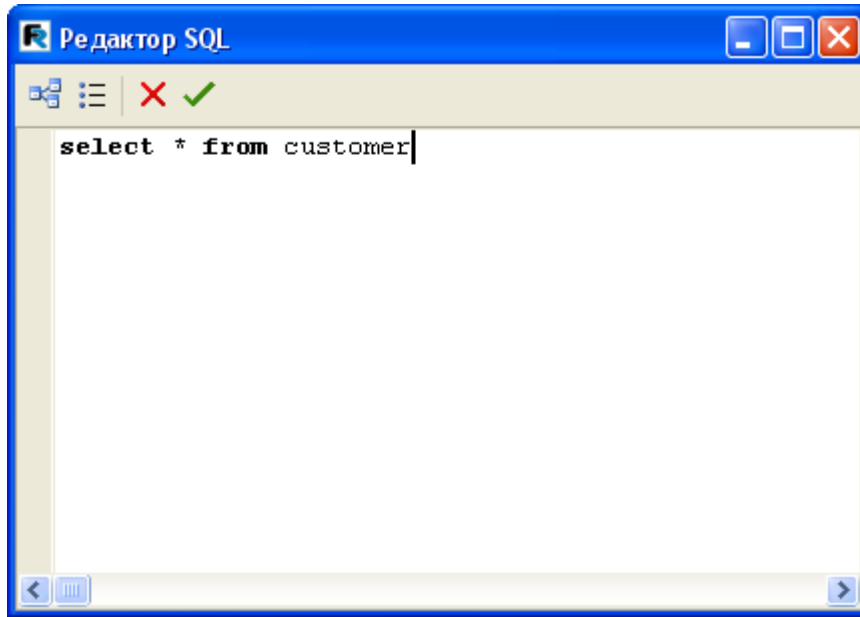
### 11.1.3 TfrxADOQuery

SQL-

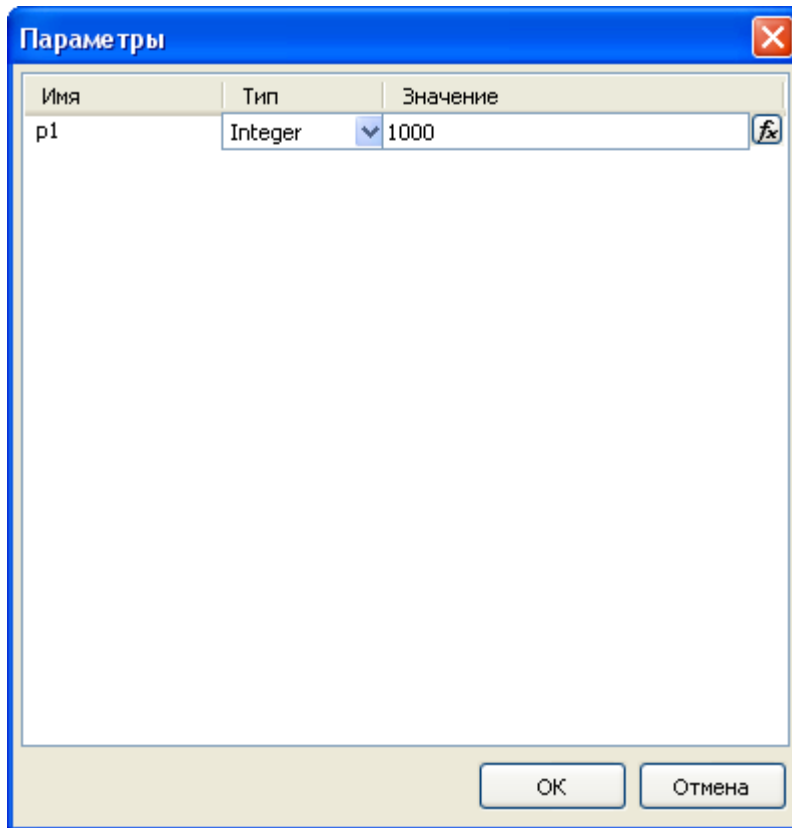
Database	( TfrxADODatabase).
FieldAliases	.
Filter	.
Filtered	, .
Master	- .
Params	.
SQL	.

UserName	( ) .
IgnoreDupParams	True, .

Database, FieldAliases, Filter, Filtered, Master  
TfrxADOTable. SQL  
SQL-



Params



, ( : master-  
 ),  
 , master-  
 TfrxADOQuery.Master.  
 , .

#### 11.1.4 TfrxADODataBase

Delphi TADOConnection.  
 :

Connected	True,
DatabaseName	.

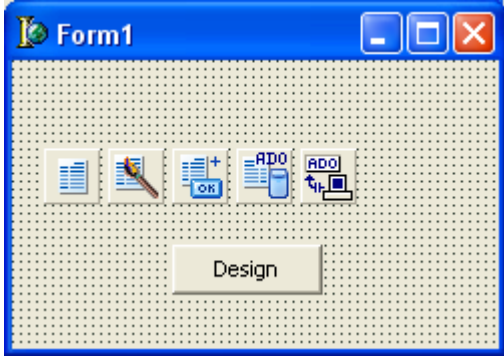
```
LoginPrompt
```

```
LoginPrompt  
LoginPrompt = False,
```

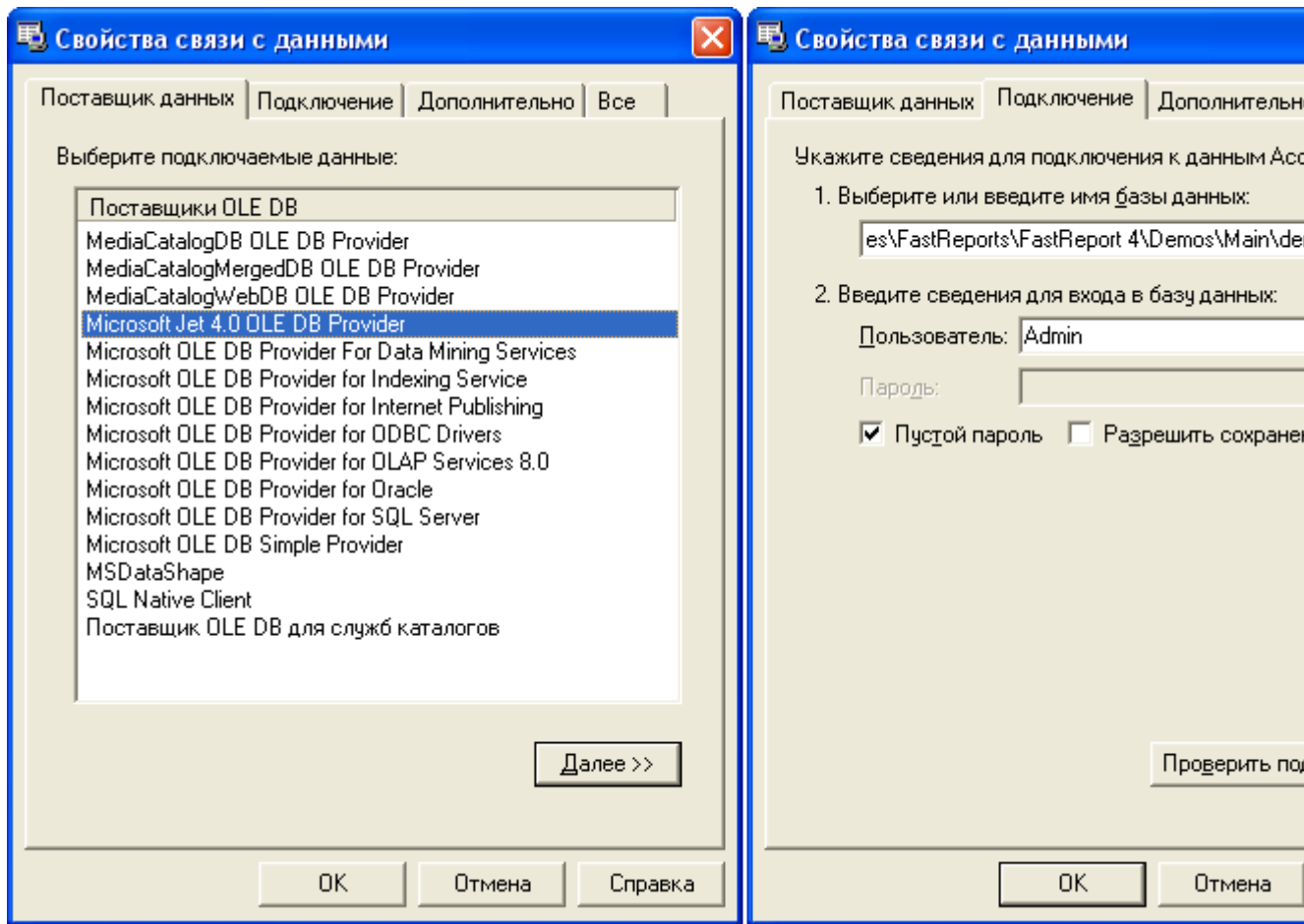
11.2

```
FastReport - {FR}\Demos\Main\demo.mdb.
```

```
Delphi  
TfrxReport, TfrxDesigner, TfrxDialogControls, TfrxADOCcomponents,  
TADOCconnection.
```



```
TADOCconnection,  
"Build connection string"
```



:

ADOConnection1:  
*LoginPrompt = False*

frxADOCcomponents1:  
*DefaultDatabase = ADOConnection1*

"Design"

:

```
procedure TForm1.Button1Click(Sender: TObject);
begin
    frxReport1.DesignReport;
end;
```

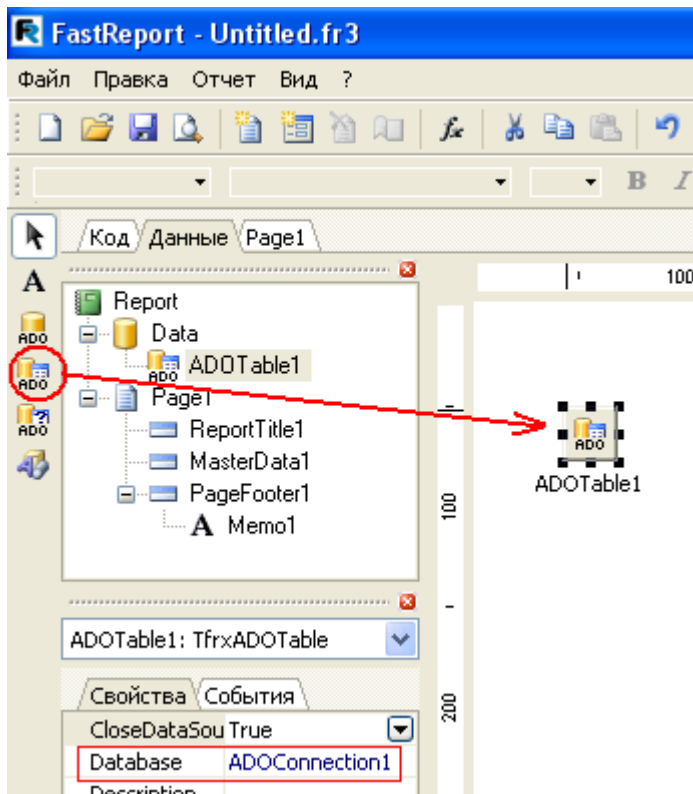
end-user

Design



### 11.3

FastReport  
"Page1".  
ADO":



Database -

DefaultDatabase

TfrxADOCOMPONENTS.

TableName = 'Customer'

" 1 "

" "

:

<b>ReportTitle:</b> ReportTitle1			
<b>MasterData:</b> MasterData1			
		ADOTable1	
[ADOTable1."Company"]	[ADOTable1."Phone"]	[ADOTable1."FAX"]	
<b>PageFooter:</b> PageFooter1			



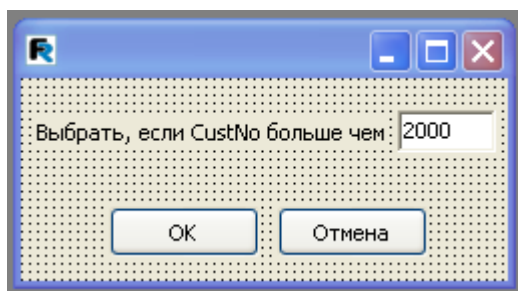
## 11.4

" ADO".

:

```
select * from Customer where CustNo > :p1
```

Label, Edit, Button:



:

Label1:

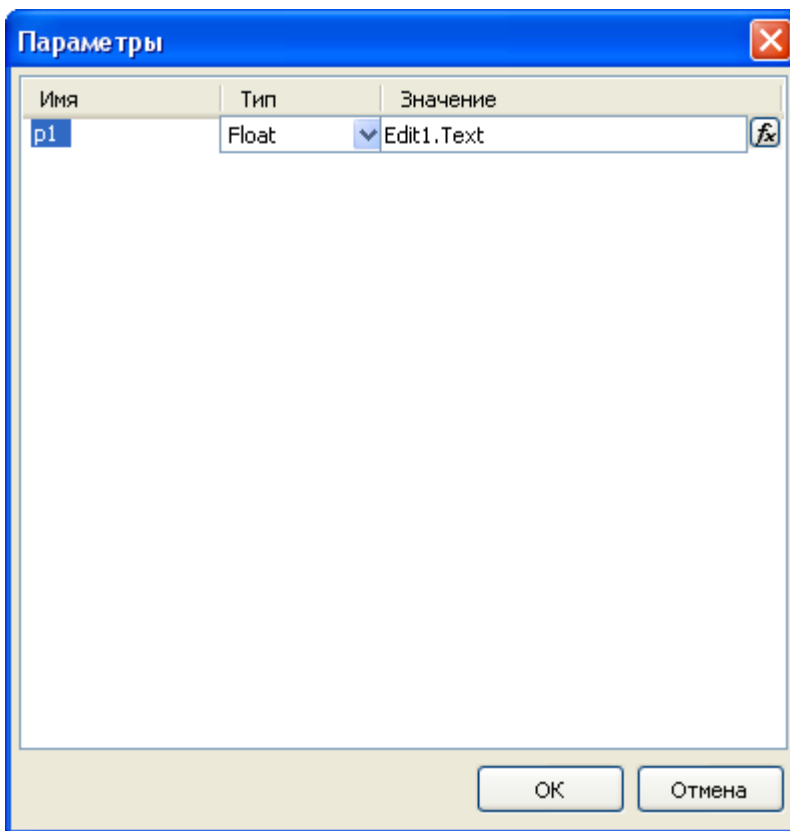
*Caption = ' , CustNo '*

**Edit1:**  
*Text = '2000'*

**Button1:**  
*Caption = 'OK'*  
*ModalResult = mrOk*

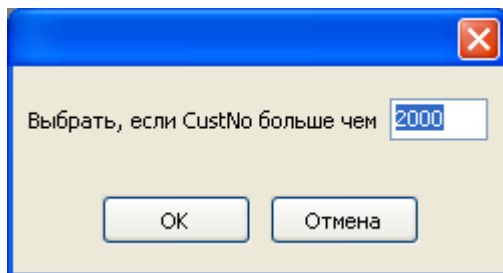
**Button2:**  
*Caption = ' '*  
*ModalResult = mrCancel*

Params Query :

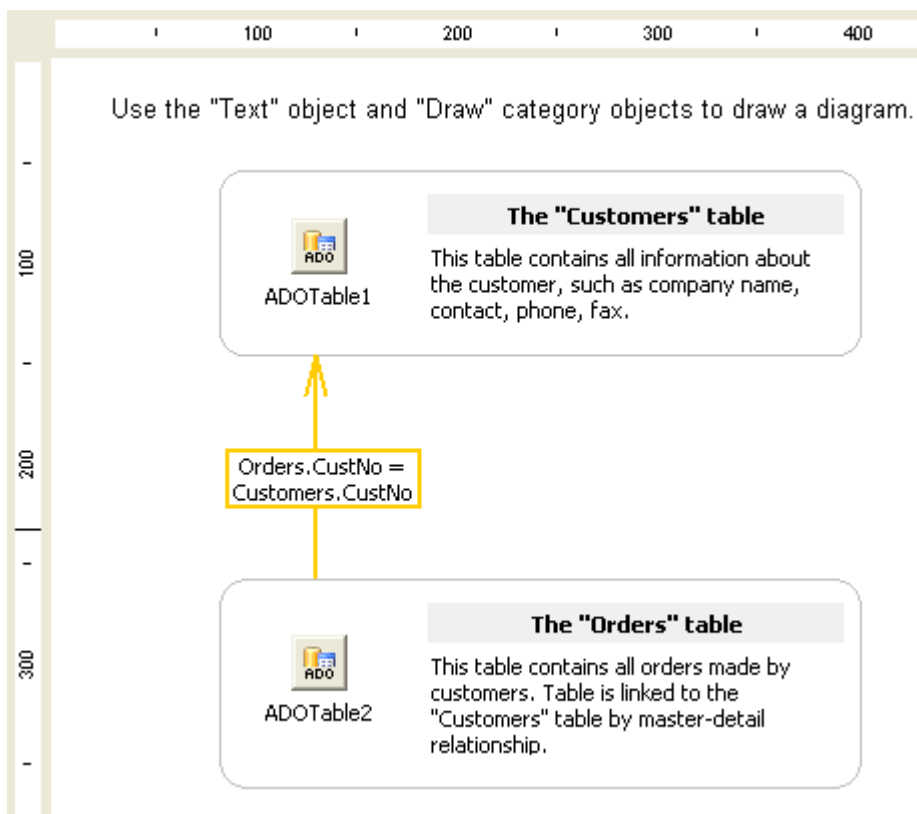


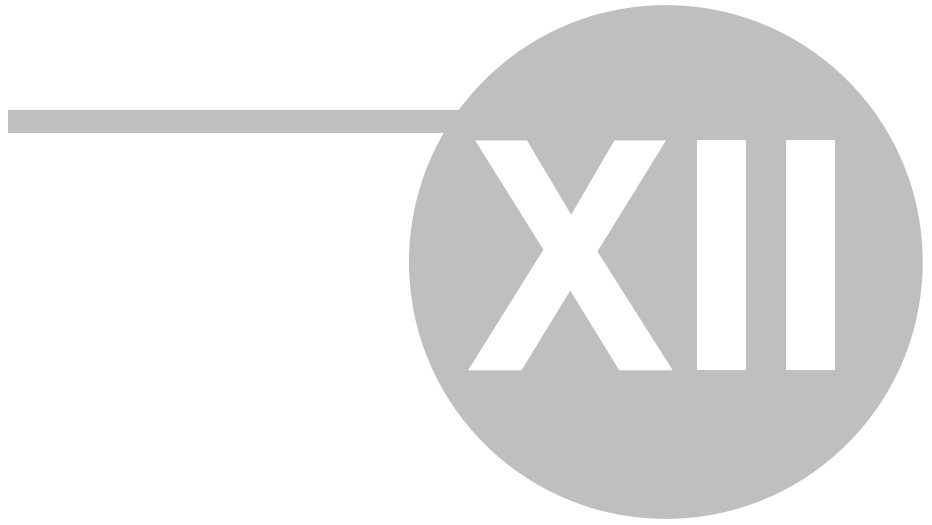
:

MasterData: Band4	
[ADOQuery1."Cust No"]	[ADOQuery1."Company"]



## 11.5






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

12.1

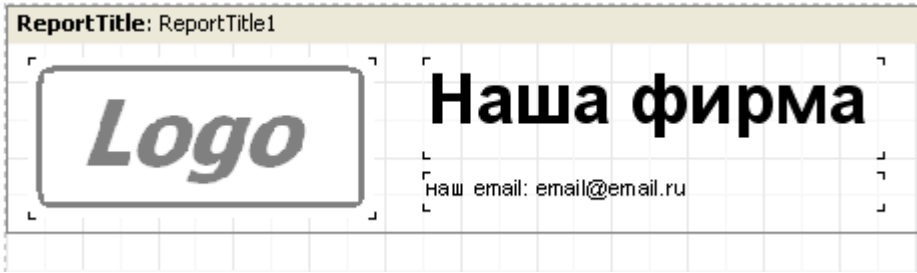
,  
:



# Наша фирма

наш email: email@email.ru

Клиент	Телефон
Action Club	813-870-0239
Action Diver Supply	22-44-500211
Adventure Undersea	011-34-09054
American SCUBA Supply	213-654-0092
Aquatic Drama	613-442-7654
Blue Glass Happiness	213-555-1984



"base.fr3".

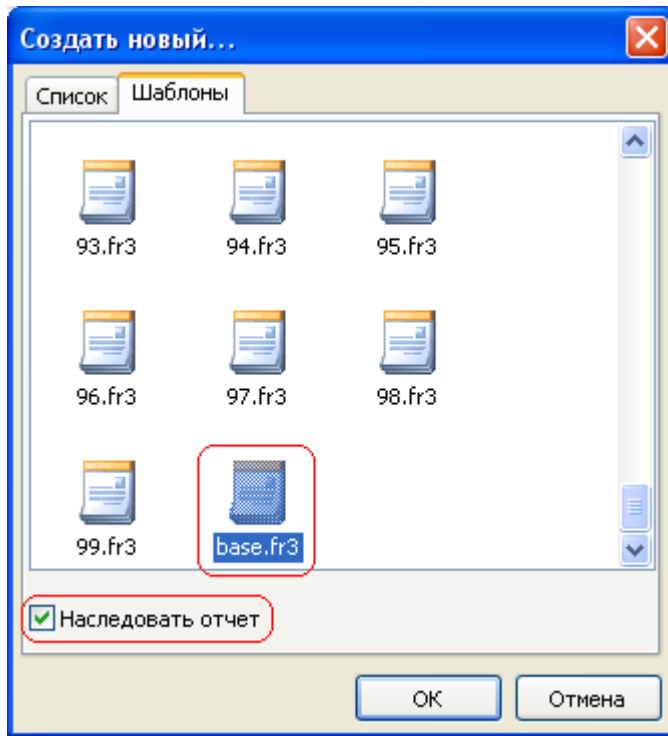
?

TfrxDesigner,

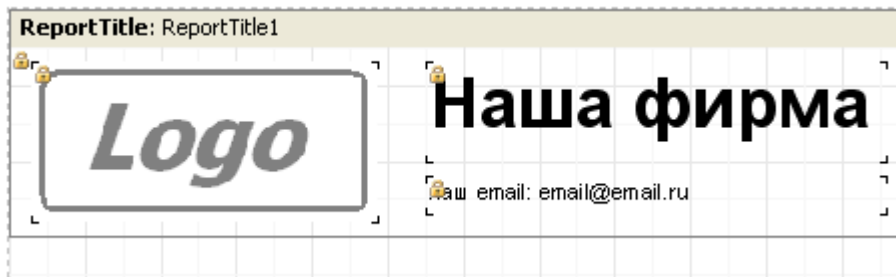
TemplateDir.

" | ..."  
base.fr3 ,


" " " " :  
" " " " :  
" " " " :



FastReport



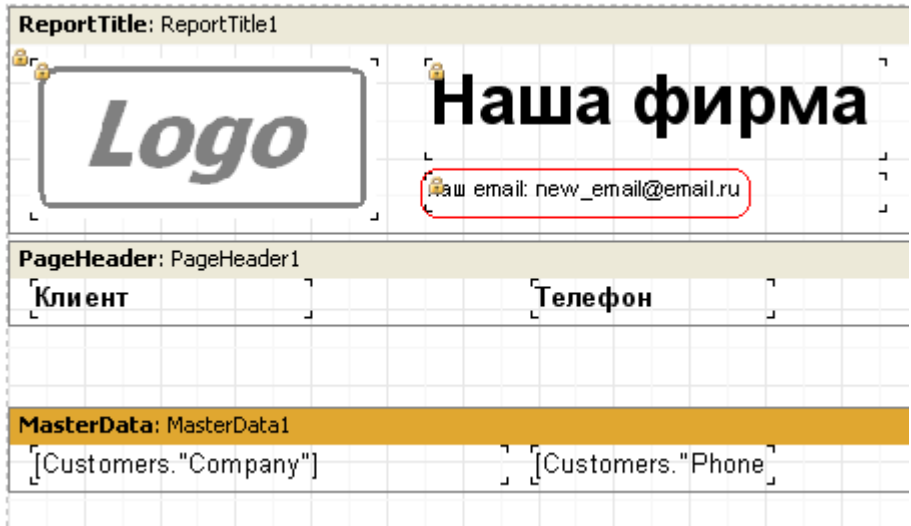


ReportTitle: ReportTitle1	
	Наша фирма Наш email: email@email.ru
PageHeader: PageHeader1	
Клиент	Телефон
MasterData: MasterData1	
[Customers."Company"]	[Customers."Phone"]

## 12.2

( - base.fr3)  
email:

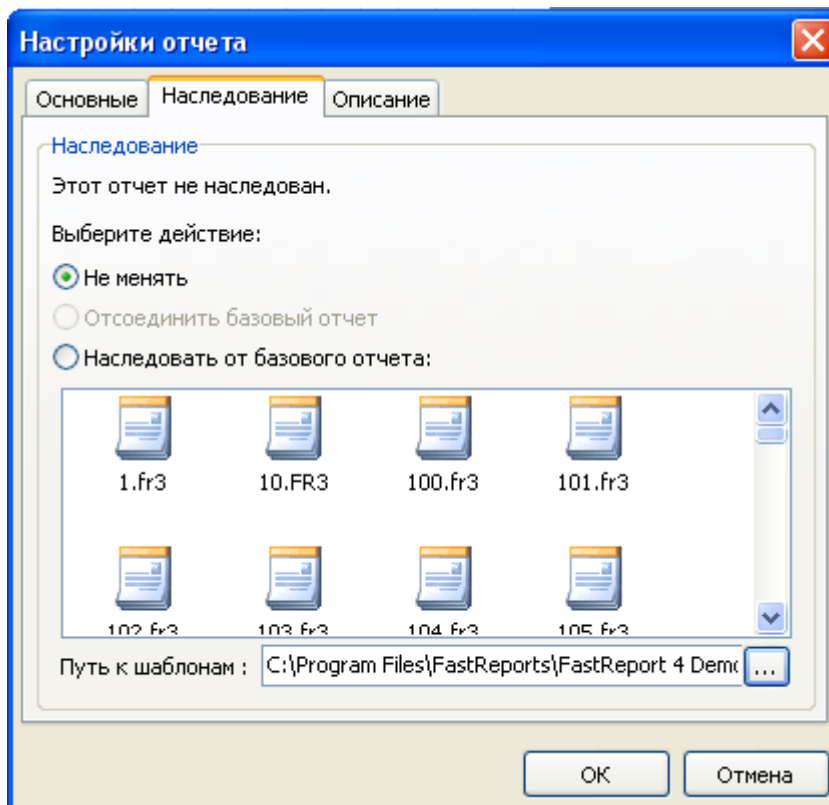
ReportTitle: ReportTitle1	
	Наша фирма Наш email: new_email@email.ru



, ? ,  
 ,  
 ,  
 ,  
 :  
 " - - " " "  
 "BaseMemo3".

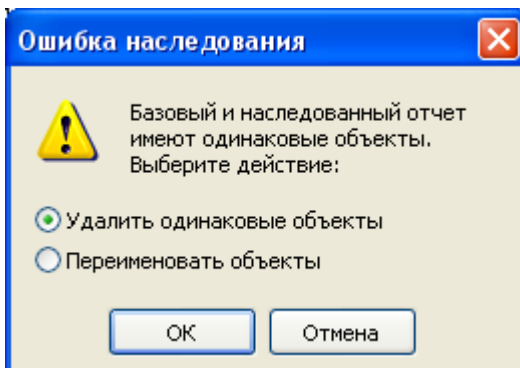
## 12.3

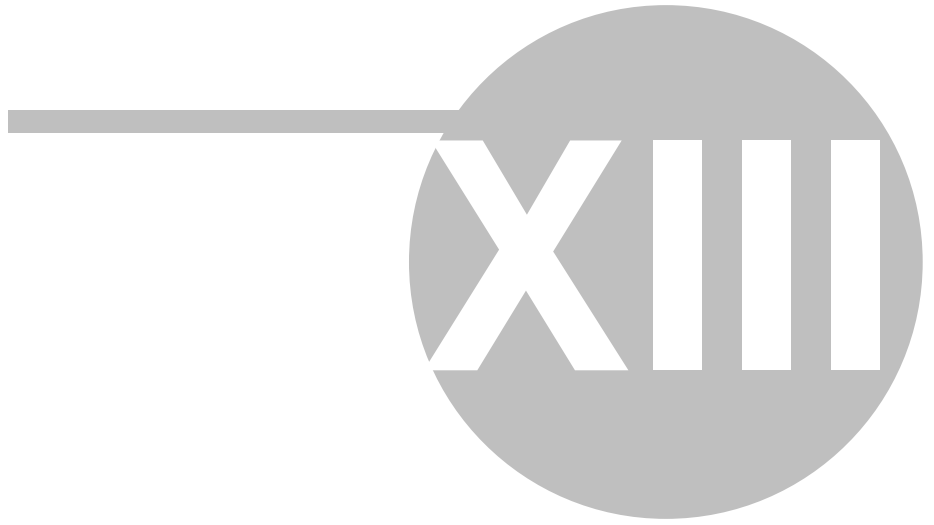
, ? ,  
 " |  
 ... :



( ... )

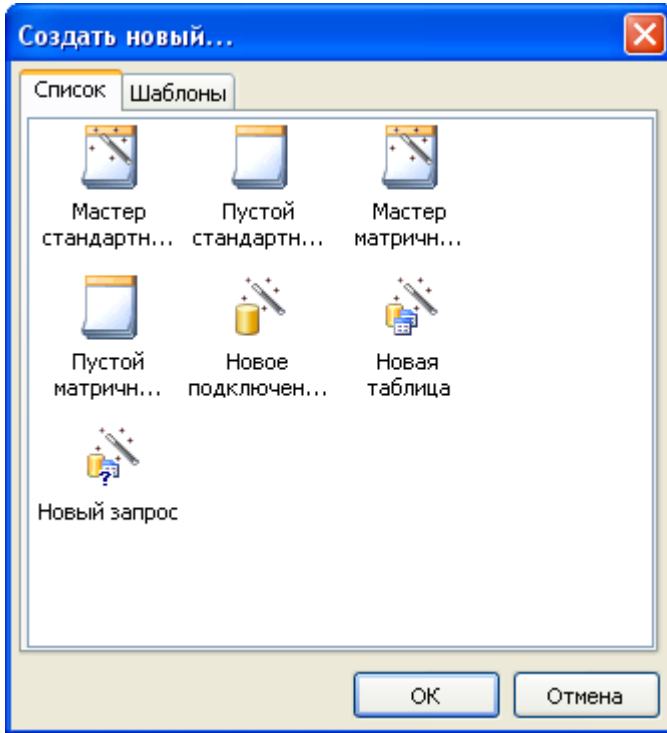
FastReport





# FastReport

...".



## 13.1

4 :

- 
- 
- 
- 

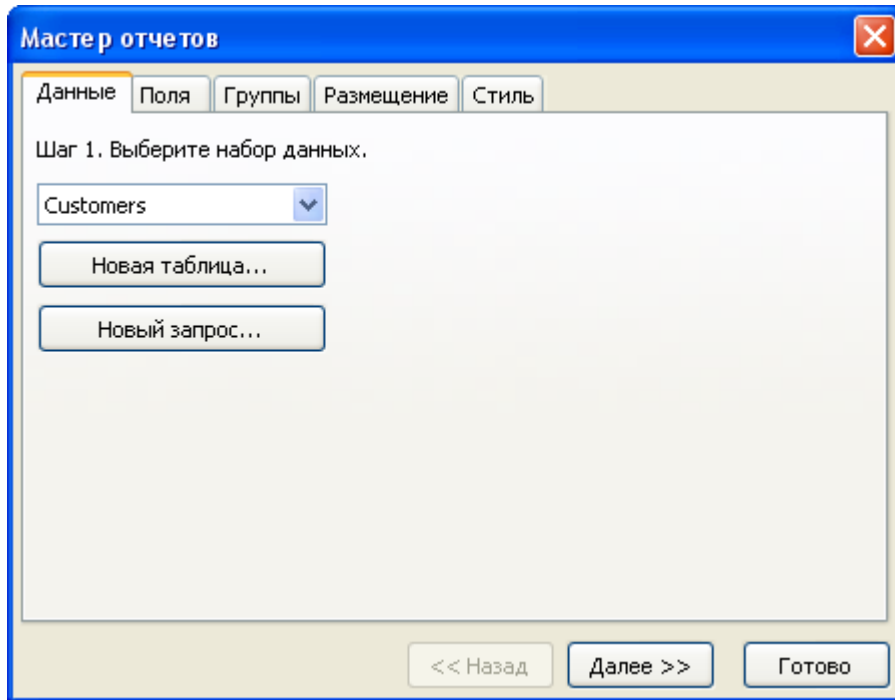
" " " "

( , )

" " " " " "

, , , , ,

" " " " " "

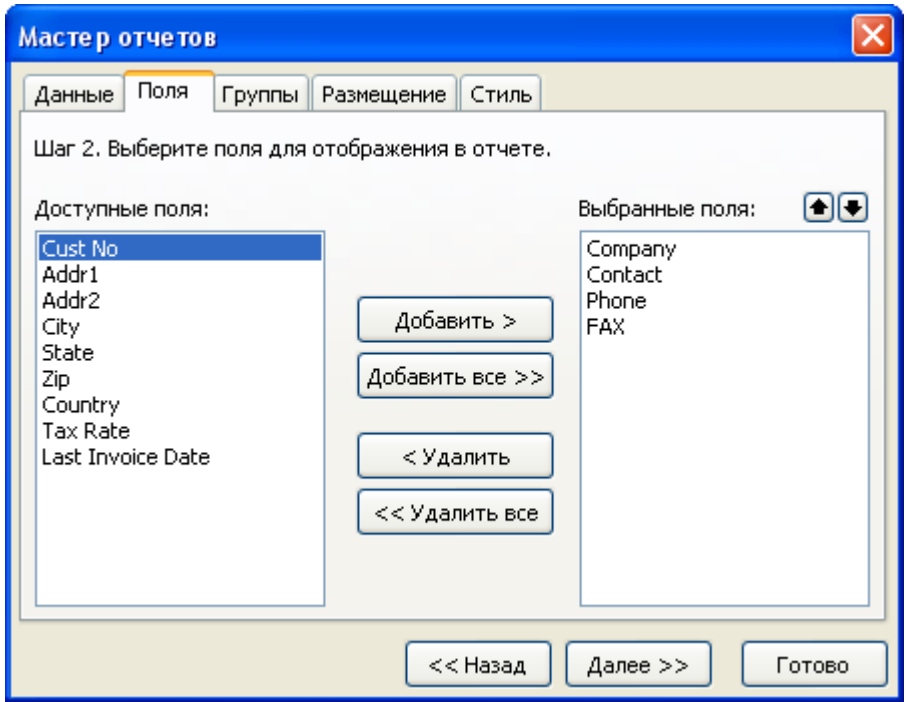


( TfrxDBDataSet).

).

Customers

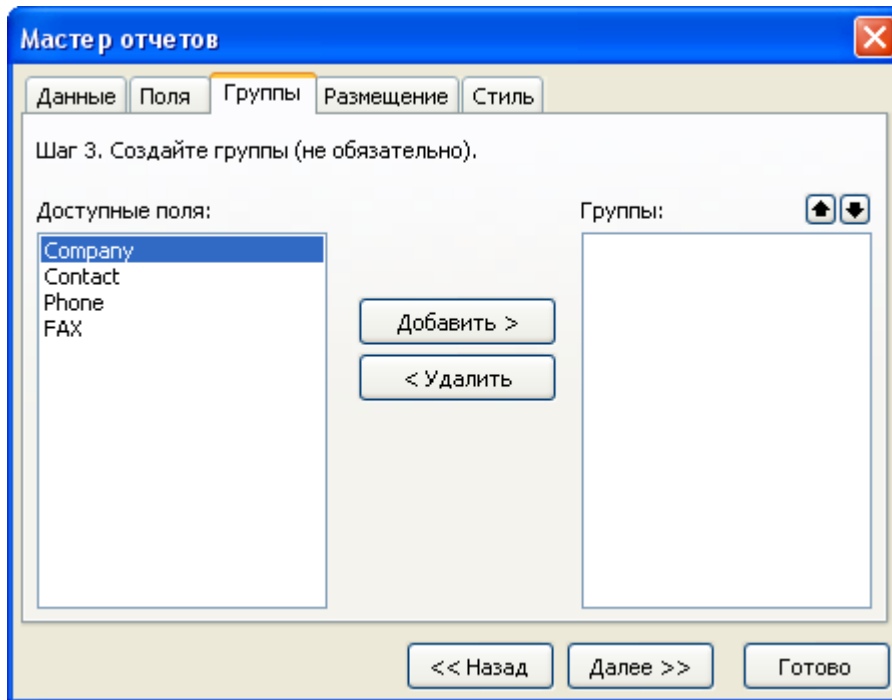
>>".



Company, Contact, Phone,  
FAX

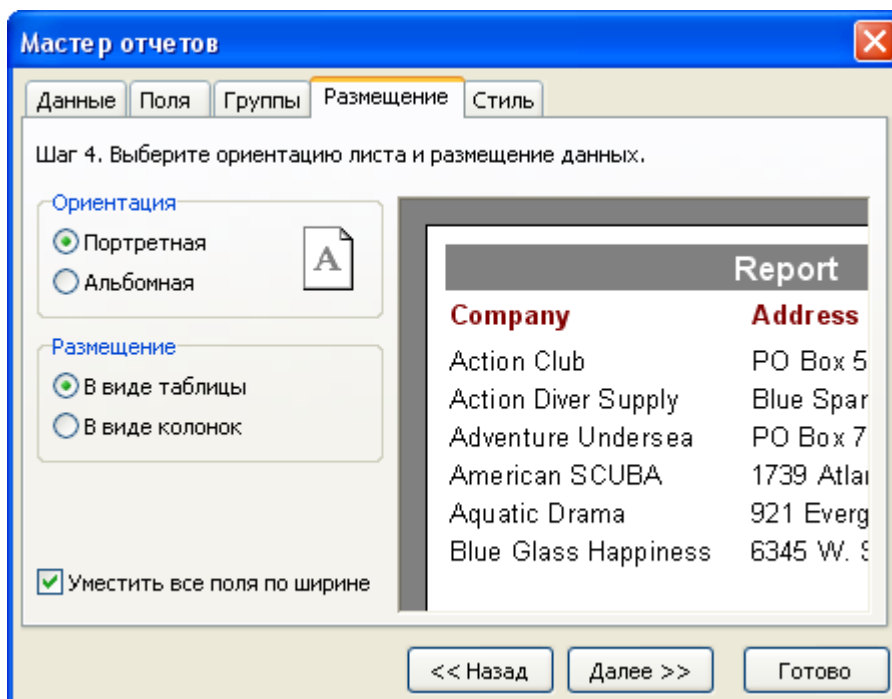
Group

header, Group footer.



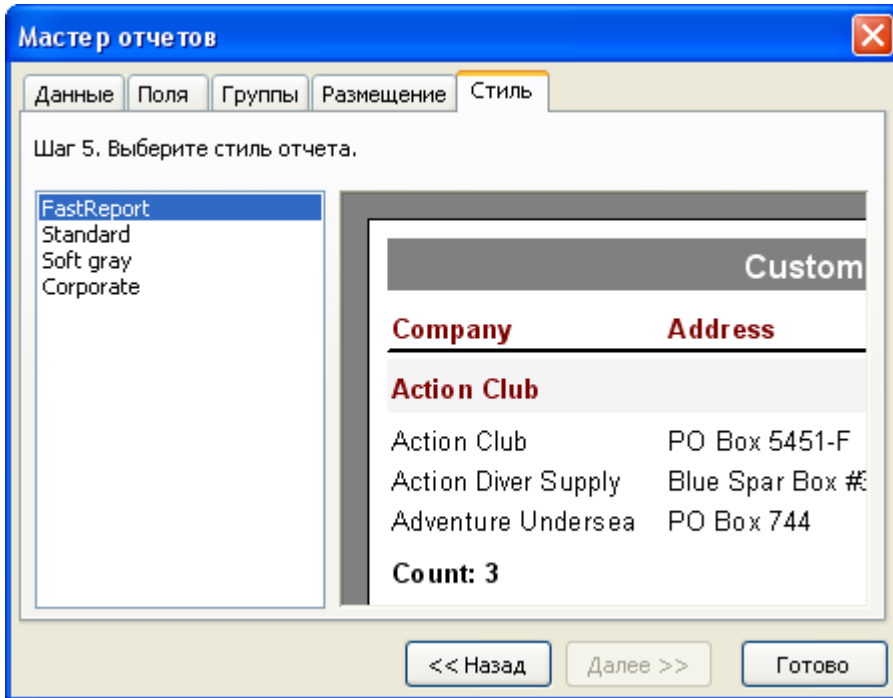
- " >>".

:



- ,

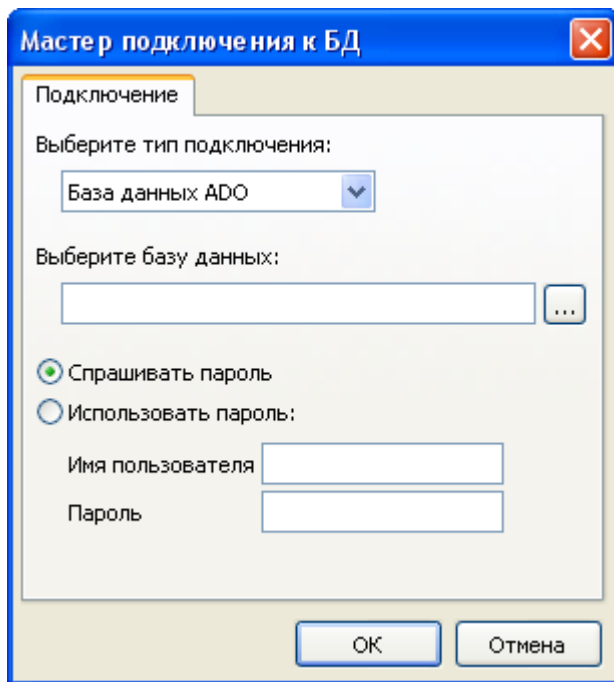




ReportTitle: ReportTitle1			
Report			
PageHeader: PageHeader1			
Company	Contact	Phone	FAX
MasterData: MasterData1			
[Customers."Company"]	[Customers."Contact"]	[Customers."Phon	[Customers."FAX"]
PageFooter: PageFooter1			

## 13.2

" ADO".

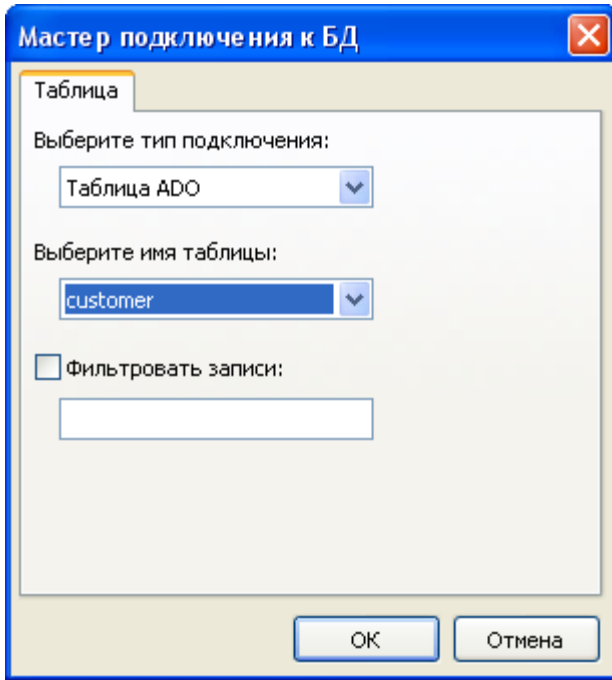


(  
Windows,

" ' "

" ' ADO".

## 13.3



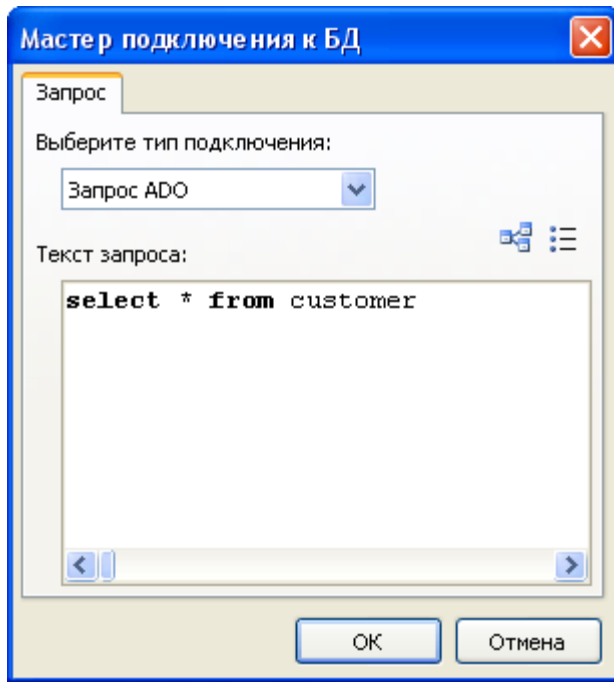
*(CustNo > 2000) and (CustNo < 3000)*

" "

" 'ADO".

## 13.4

- SQL.



SQL

,



" "

" ADO".

## 13.5

FastReport (

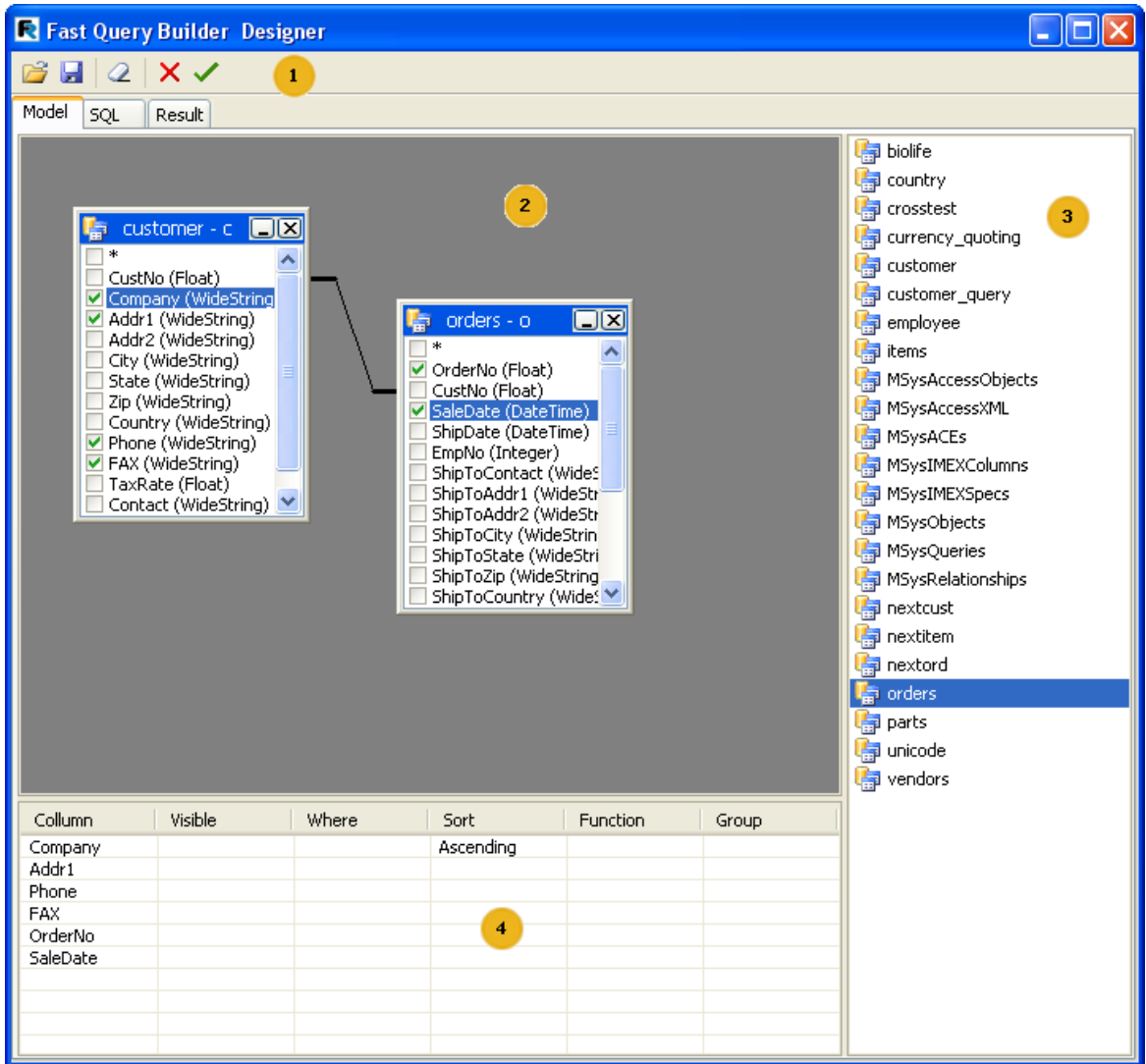
Professional, Enterprise)

FastQueryBuilder,

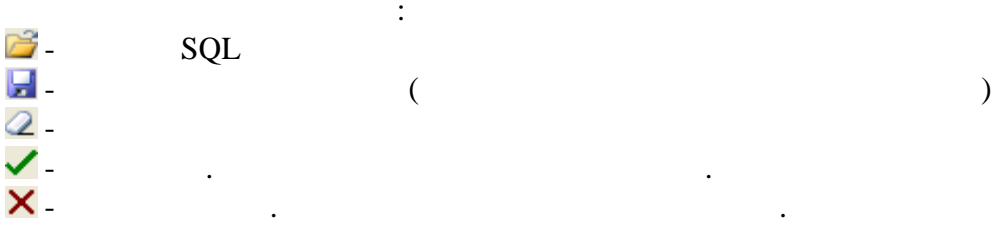
).

SQL.

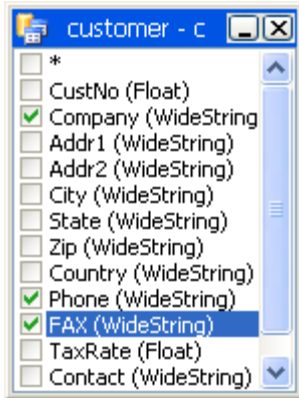
:



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



Drag&Drop, . .

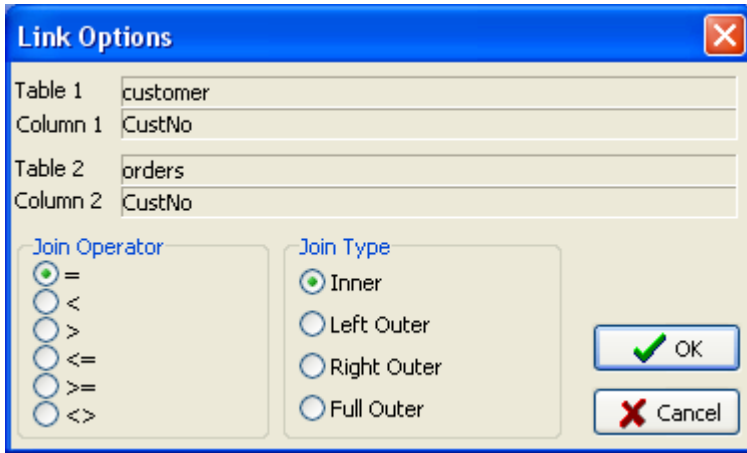


Column	Visible	Where	Sort	Function	Group
Company	<input type="checkbox"/>				
Phone	<input type="checkbox"/>				
FAX	<input type="checkbox"/>		Descending		
OrderNo	<input type="checkbox"/>				
SaleDate	<input type="checkbox"/>				

- Visibility -
- Where -
- Sort -
- Function -
- Group -

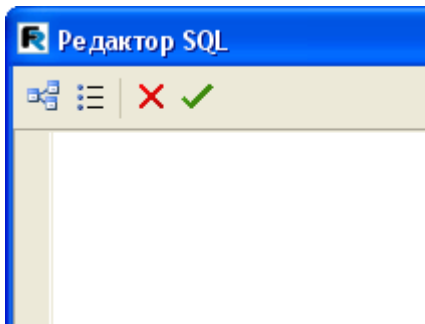
(join).

Link options.

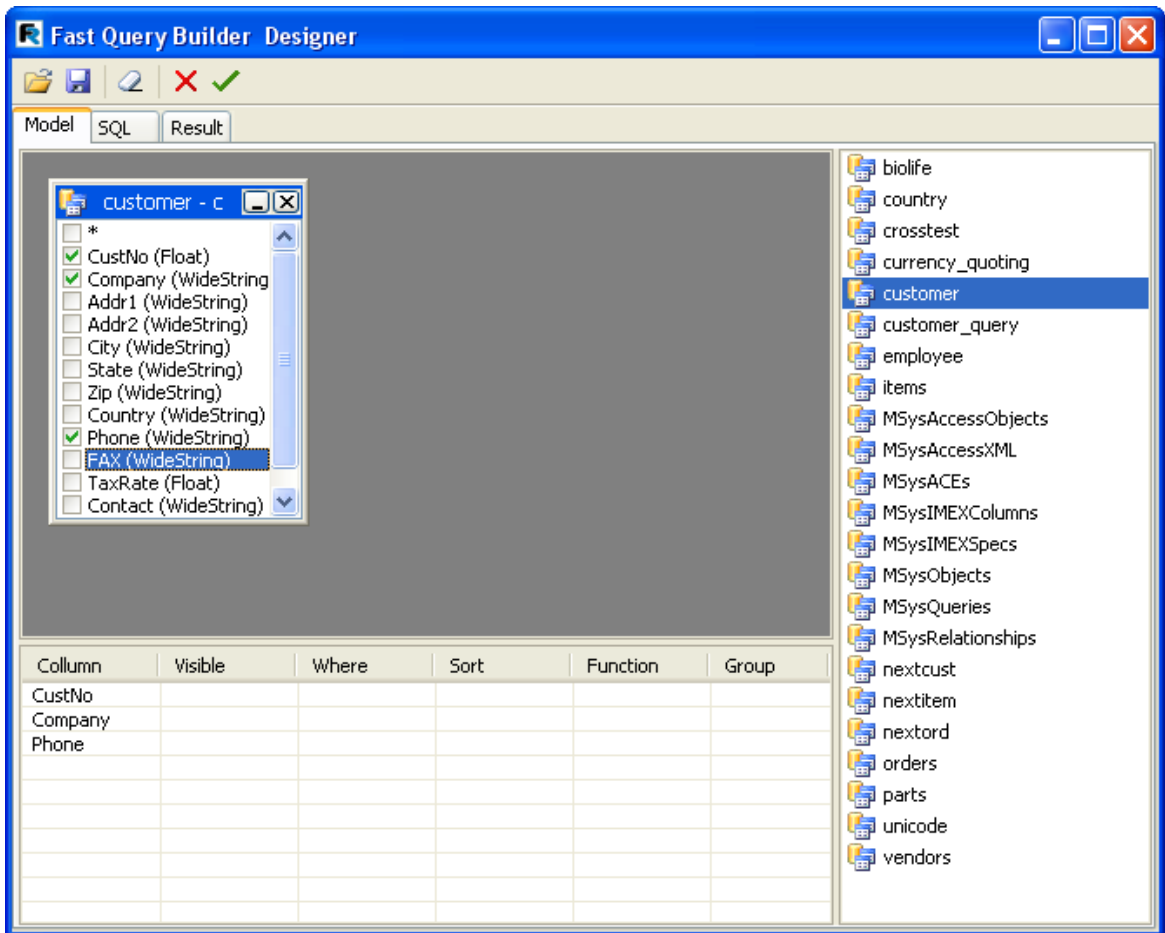


13.5.1

ADO".



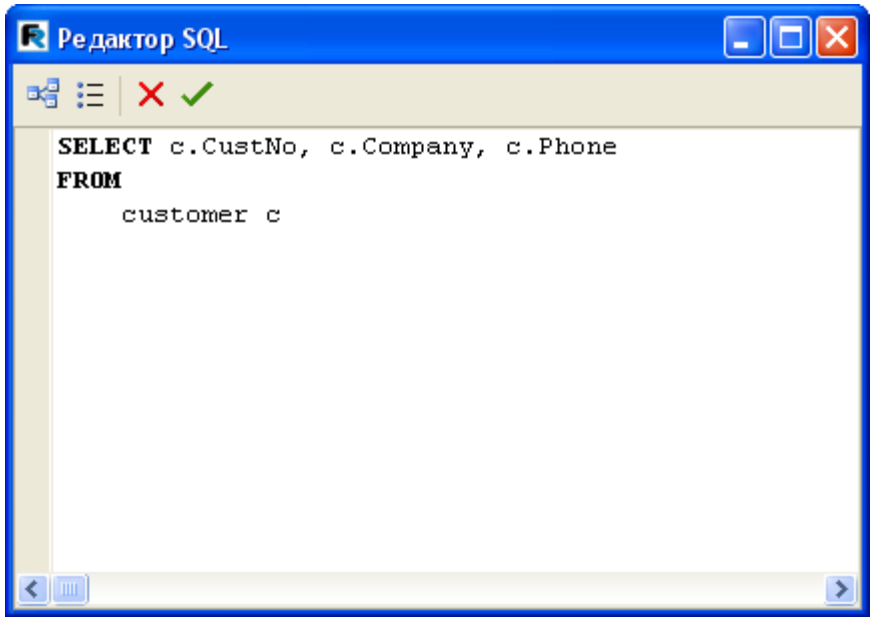
Customer  
( CustNo, Company, Phone: )



SQL,  
✓,

Result





( ! , )

1

13.5.2

60).

SQL,

CustNo

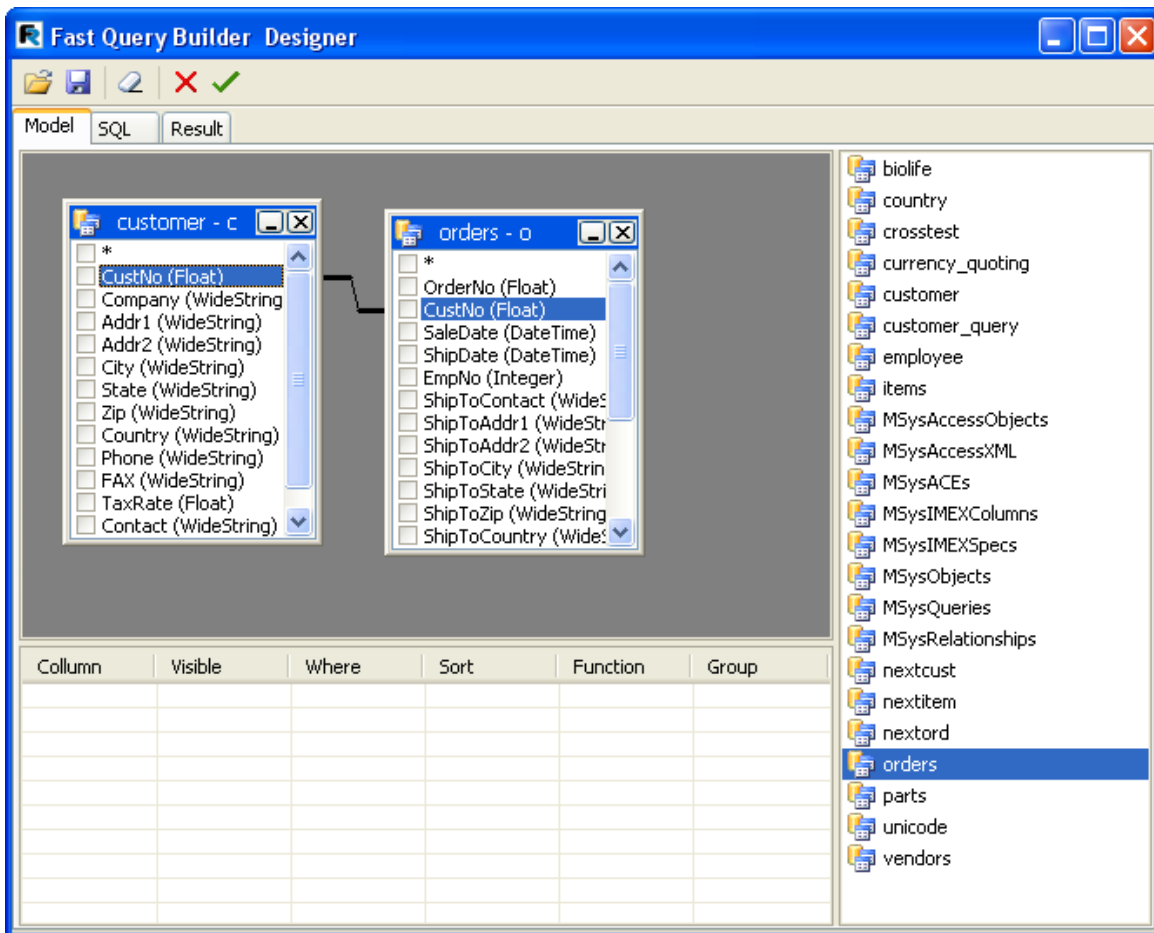
" ADO".

– Customers Orders.

CustNo,

CustNo

:



CustNo.  
CustNo

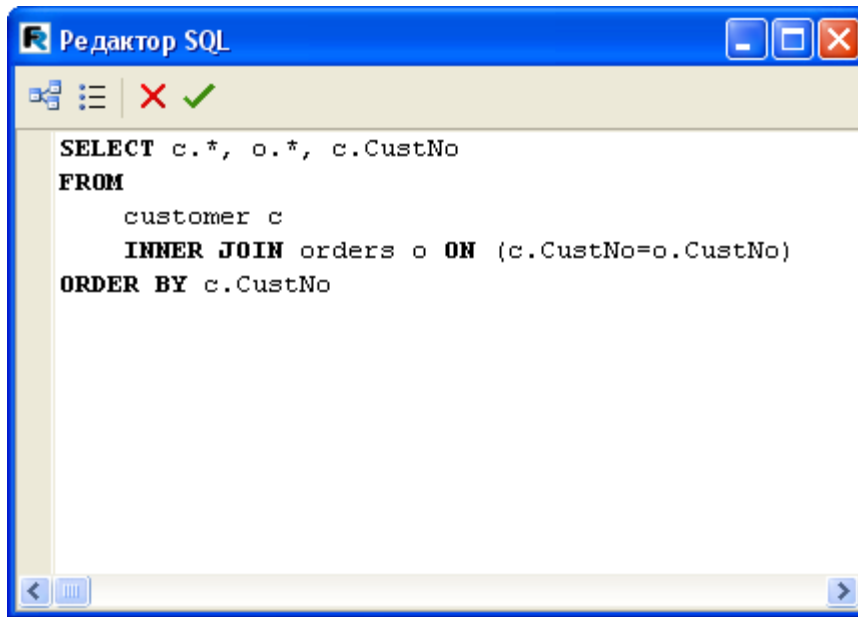
Customer.

"\*"

CustNo:

Column	Visible	Where	Sort	Function	Group
*					
*					
CustNo	<input type="checkbox"/>		Ascending		

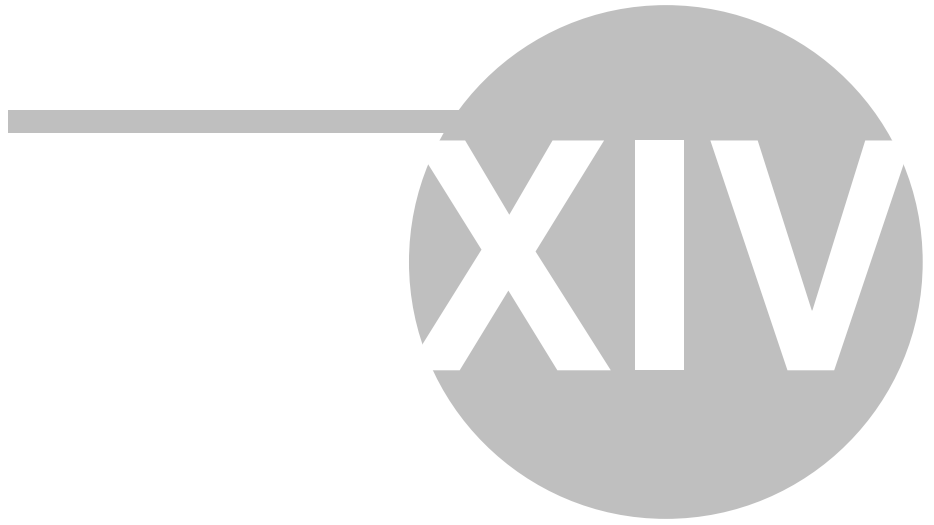
:



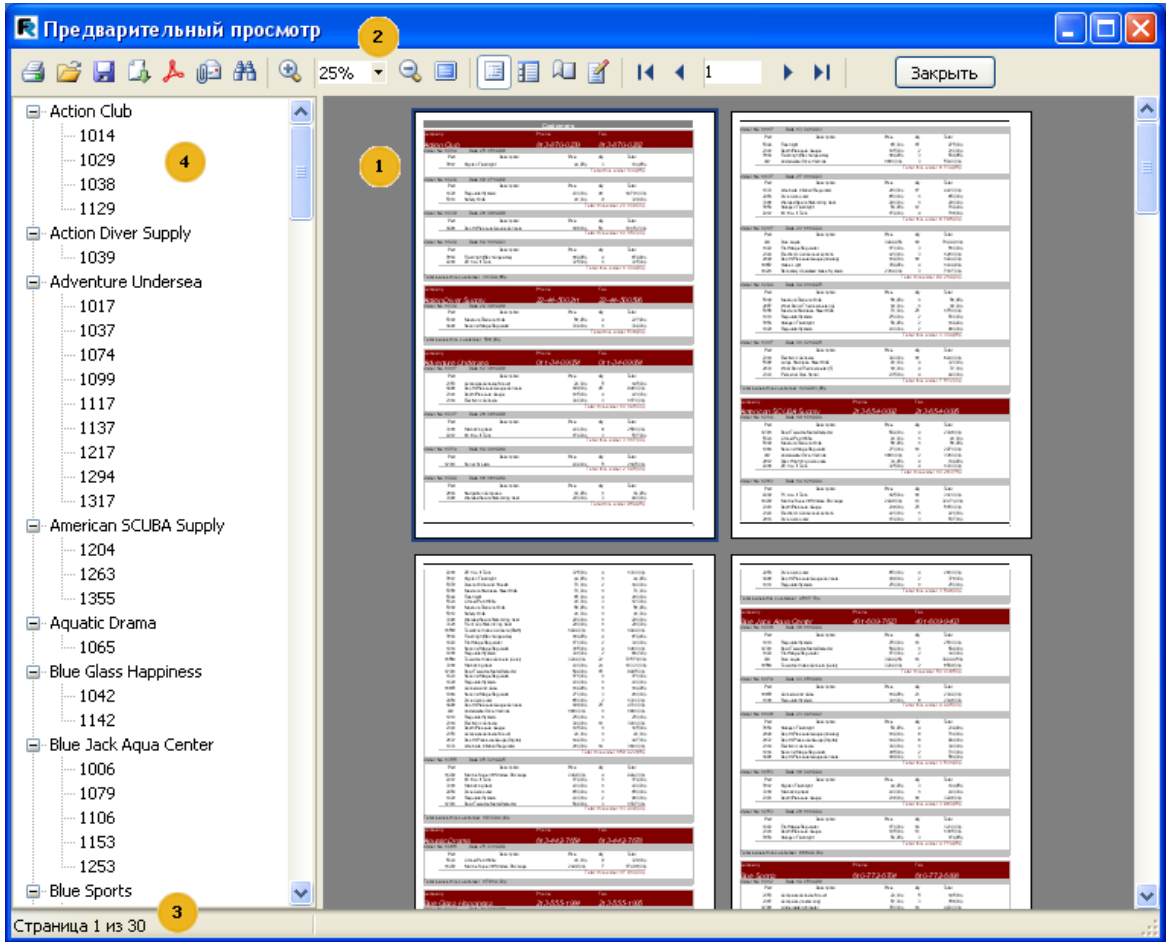
The image shows a screenshot of a software window titled "Редактор SQL" (SQL Editor). The window has a blue title bar with standard Windows window controls (minimize, maximize, close). Below the title bar is a toolbar with icons for undo, redo, and a green checkmark. The main area of the window contains the following SQL query:

```
SELECT c.*, o.*, c.CustNo
FROM
  customer c
  INNER JOIN orders o ON (c.CustNo=o.CustNo)
ORDER BY c.CustNo
```

At the bottom of the window, there are navigation arrows and a list icon.


































’ ’



- 1 – ;
- 2 – ;
- 3 – ;
- 4 – ( ),



		– Ctrl+P.
		(* .fp3).
		(* .fp3).
		
	PDF	Adobe Acrobat (* .pdf).
		
		
		Ctrl+F.
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		
		Enter.
		
		
		
		

### 14.1

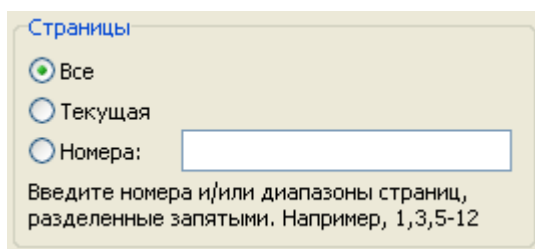
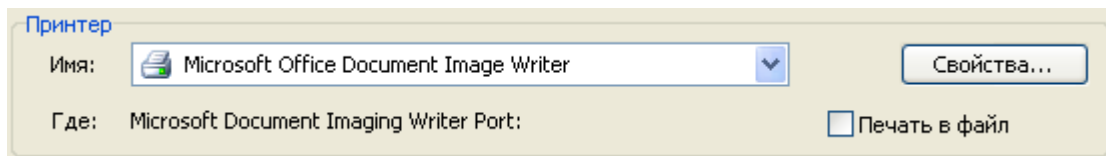
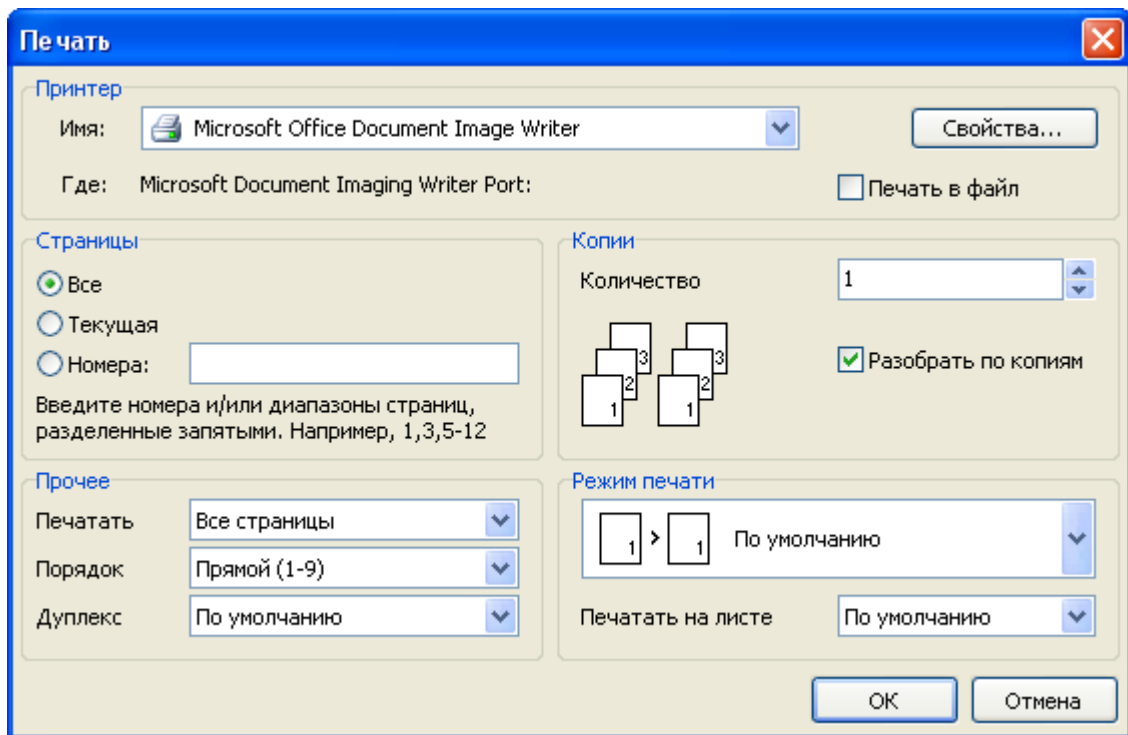
Ctrl+S	*.fp3.
Ctrl+P	.
Ctrl+F	.
F3	.
	.
PageUp, PageDown	/ .
Ctrl+PageUp, PageDown	/ .
Home	.
End	.

### 14.2

	); ( << >> ( << >> -
	; << >> -
	-
	.

### 14.3

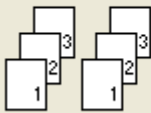
, Ctrl+P). - , :  (





**Копии**

Количество



Разобрать по копиям

) " " ( , , ), ' (" " - ( , )).

**Прочее**

Печатать

Порядок

Дуплекс

, " "

**Режим печати**

>  По умолчанию

Печатать на листе

>  По умолчанию

>  /  Разрезать большие страницы

3 4.

/  >  Объединять маленькие страницы

4 3.

1 > 1 Масштабировать

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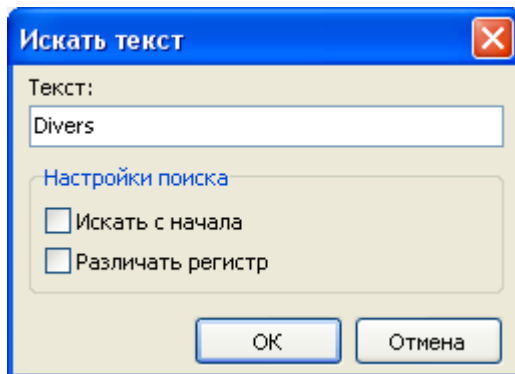
## 14.4

FastReport

Ctrl+F).



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 - - ( )  
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Blue Sports Club	6
Catamaran Dive Club	1
<b>Cayman Divers World Unlimited</b>	1
Central Underwater Supplies	1

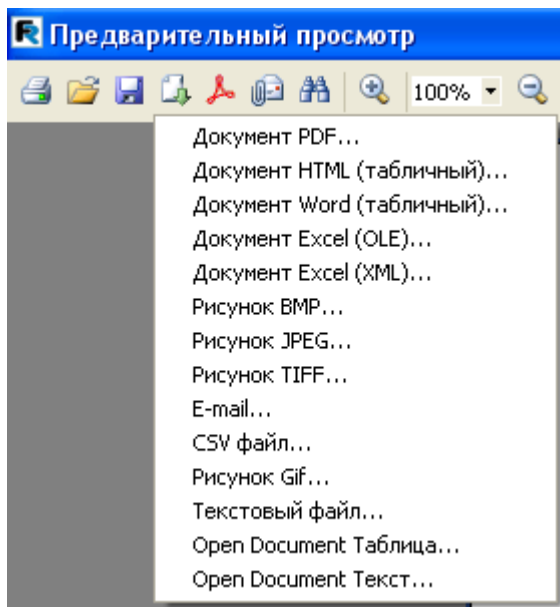
F3.

## 14.5

FastReport

13 : PDF, ODS, ODT, Excel, XML, RTF, HTML, text, CSV, BMP, Jpeg, Tiff, Gif.

FastReport



FastReport

3 :

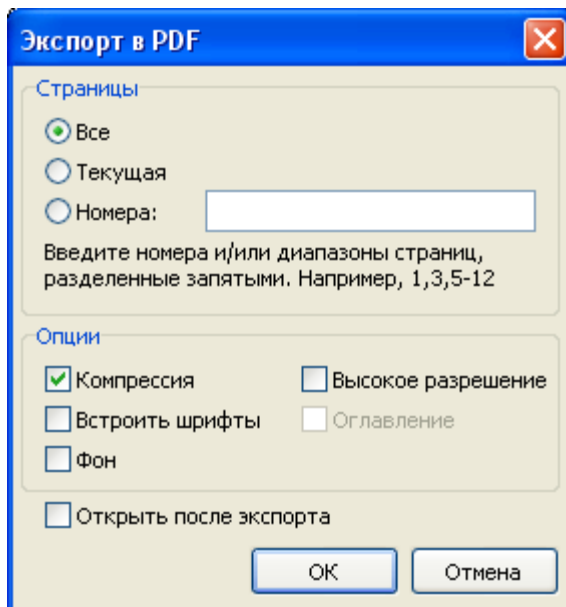
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## 14.5.1

## PDF

PDF (Portable Document Format) – Adobe Systems.  
Acrobat Reader.

## PDF



PDF

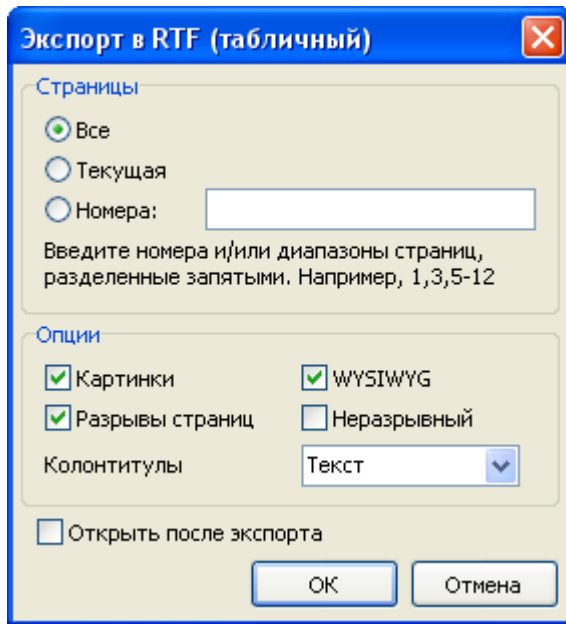
PDF,

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 - - ;  
 PDF ,  
 ( , Adobe Acrobat Reader).  
 : RichText

## 14.5.2 Open Document

OpenDocument Format (ODF, OASIS Open Document Format  
 for Office Application — )  
 — ( , ;  
 ), , , ;  
 OASIS XML- , OpenOffice.org. 1  
 2006 ISO/IEC 26300.  
 FastReport ( .ods)  
 ( .odt) OpenDocumet.  
 OpenOffice.





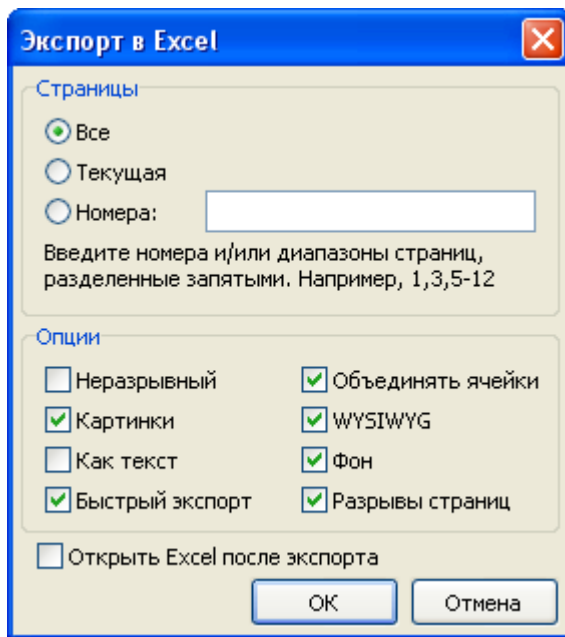
:  
 - ;  
 - WYSIWYG - RTF ;  
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 - RTF ;  
 ( , Microsoft WordPad).  
 : RichText  
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## 14.5.4

## Excel

Excel –  
Microsoft Office System.

Excel



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Excel,  
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- WYSIWYG -



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- Excel - Excel.

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- Excel

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### 14.5.5

### XML

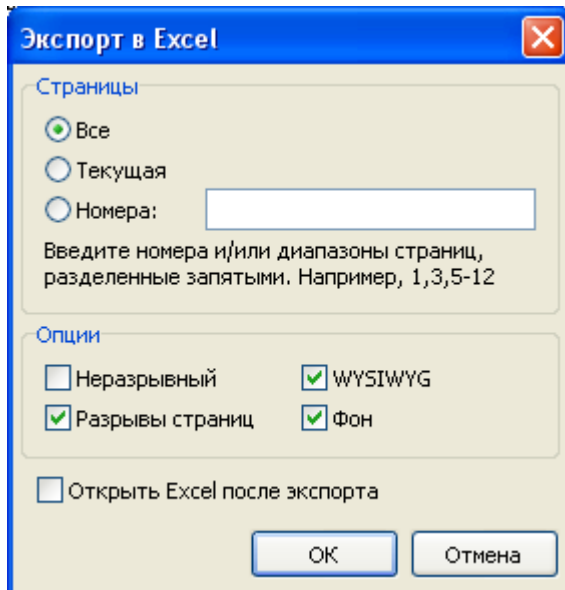
XML (Extensible Markup Language) -

. XML

. FastReport  
Excel 2003

. XML

XML



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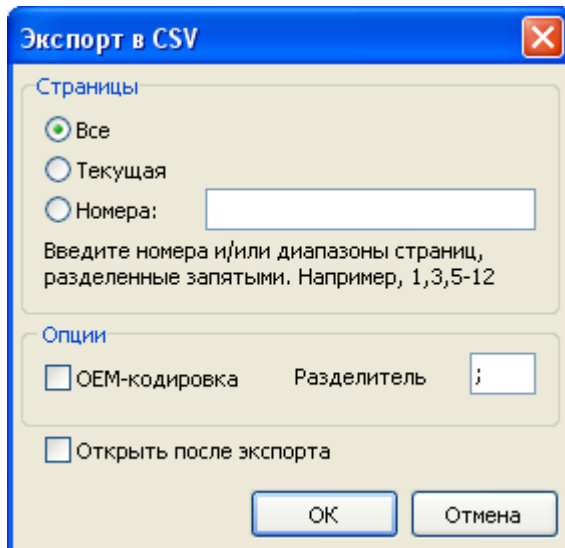
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 - WYSIWYG - ;  
 - Excel Excel. ;  
 : RichText ,

### 14.5.6

### CSV

CSV- ,  
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 CSV



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 - OEM - OEM ;  
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CSV

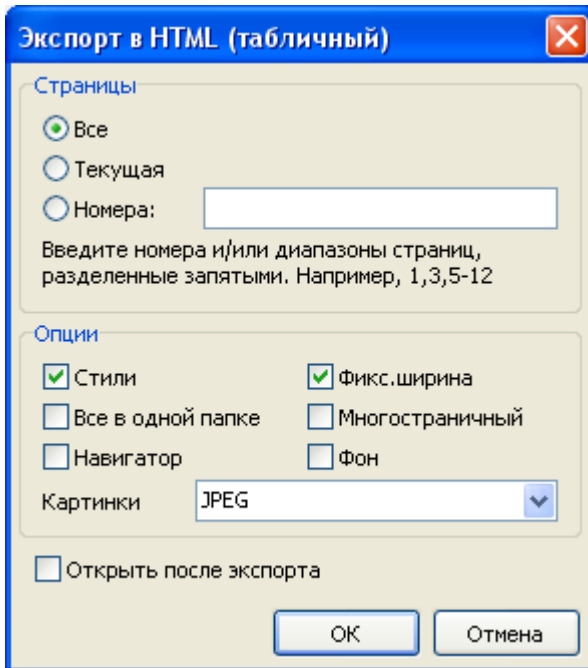
### 14.5.7

### HTML

HTML (Hypertext Markup Language) –  
Internet. HTML

HTML

HTML





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- OEM- OEM ;
- -

### 14.5.9

### Jpeg, BMP, Gif, Tiff

FastReport

- JPEG (Joint Photographic Experts Group) –

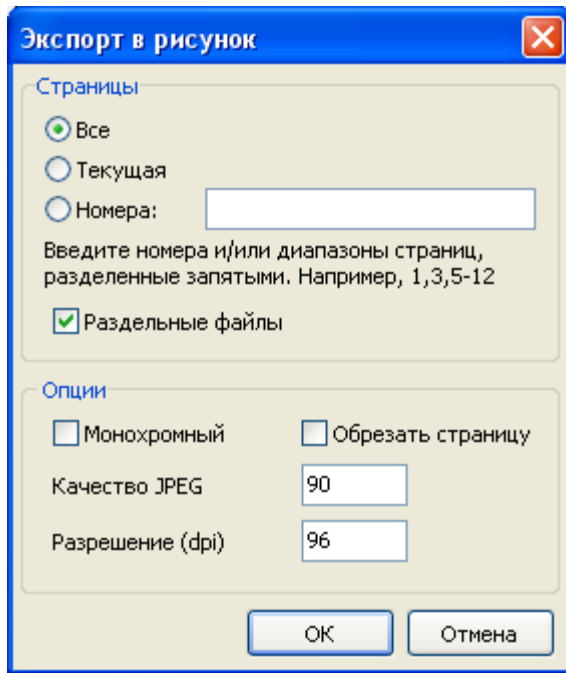
- BMP (Windows Device Independent Bitmap) –

Windows.  
Windows.

- GIF (Graphics Interchange Format) –  
GIF

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- TIFF, TIF (Target Image File Format) –



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 - Jpeg JPEG - JPEG , ,  
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## 14.6

FastReport

e-mail

" ":

**Отослать по E-mail**

E-mail Ящик

Письмо

Автор John Smith

Адрес john@hotmail.com

Организация

Подпись

Собрать

--  
С уважением,  
John Smith  
mailto: john@hotmail.com

Подключение

Сервер smtp.hotmail.com Порт 25

Имя john Пароль \*\*\*\*\*

Запомнить настройки

OK Отмена

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- - SMTP ;

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«E-mail»: ), (





FastReport.

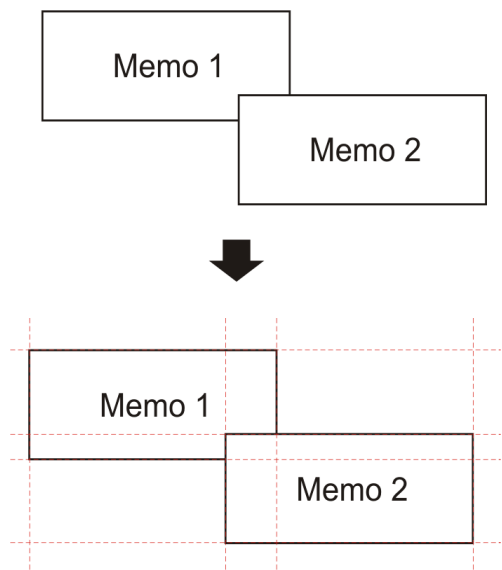
HTML, XLS, XML, RTF, CSV.

(  
RTF),  
FastReport.

HTML

FastReport

FastReport



RTF

150

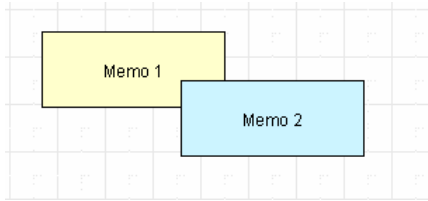
450

300.

150.

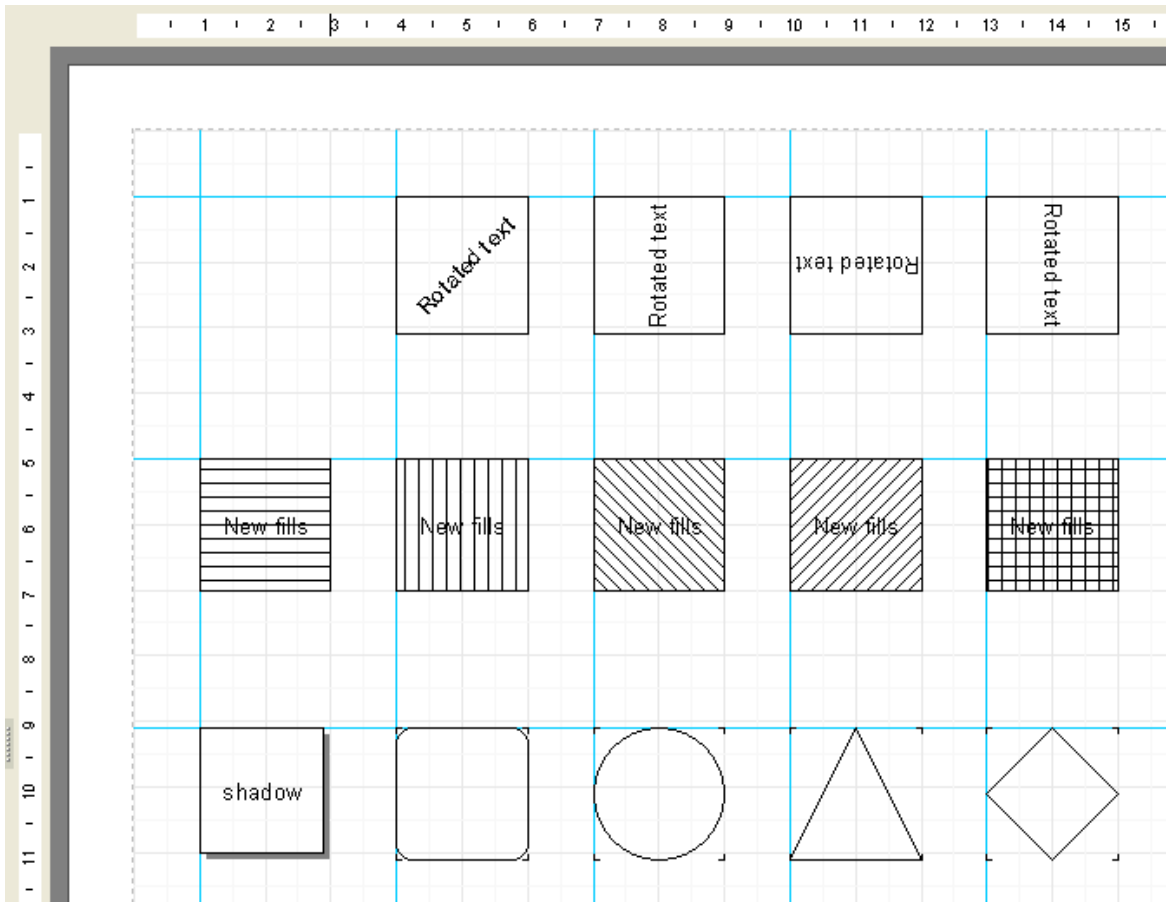
(150

).



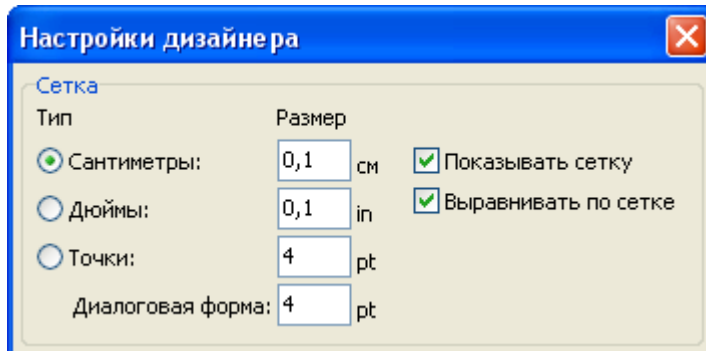
	A	B	C	D
1	Memo 1			
2			Memo 2	
3				
4				

Excel



## FastReport

&lt; | ...&gt;:



Настройки дизайнера

Сетка

Тип	Размер	
<input checked="" type="radio"/> Сантиметры:	<input type="text" value="0,1"/>	см <input checked="" type="checkbox"/> Показывать сетку
<input type="radio"/> Дюймы:	<input type="text" value="0,1"/>	in <input checked="" type="checkbox"/> Выравнивать по сетке
<input type="radio"/> Точки:	<input type="text" value="4"/>	pt
Диалоговая форма:	<input type="text" value="4"/>	pt

