

ı

Part I		1
Part II	3.3?	2
Part III		2
Part IV	Trial	2
Part V		3
Part VI		3
Part VII		3
1	?	3
2	?	4
3	?	5
Part VIII		5
1		5
		7
		_
		_
		_
2		9
		9
		_
		10

		-
3		
		11
		11
_		
4		12
5		
•		
		14
		14
6		14
		14
		15
	?	15
		15
Part IX		15
1		15
2		16
3		17
4		18
-		_
5		
Part X	ODBC	19
1	ODBC	19
2	ODBC	_
2	ODBC	
3		
4	ODBC	26
5	ODBC	31
Part XI		31

1	
2	34
_	34
3	39
· ·	33
	4
	44
D (VII	
Part XII	46
1	
2	47
3	48
4	
5	
6	
-	
Part XIII	53
1	
2	- "Books" 54
3	- "Music" 54
4	- "Transactions" 55
-	
Part XIV	55
1	
2	
3	
4	
5	60
6	61
7	61
•	

IV 3.3

Index 0

3.3?	
Trial	
THO	
	
?	
	?
?	
<u>.</u>	
	
	_
ODBC	
ODBC	
ODBC	
ODBC	
<u>ODBC</u>	
ODE	3C
	
	_
	- "Books"
	- "Music"
	- IVIUOIU "Troppostis:"
	- "Transactions"
	_
	_
	_

2 3.3?

• / :
- - "owner"
- / - " " "
- SQL

,

3

. 30 . 30-

ORDER.TXT '

,

. (

, ,

, n n

4 Trial

Trial , :

	(Oracle, Sybase, Microso,		(ubase, At	,,	,
	ODBC.		(dBase, Ad	ODBC	
		Microsoft Visua	al C++	ODBC API,	
	-	()		()
7.1		?			
7					
	dagolubev@gmail.com	1			
	,		,		
6					
	email	: dagolubev@gmai	l.com		
			·		
	,		3.xx	3.30,	
	30				
5					
	•				
	•	100	30 .		
	•		30 .		

: ODBC SQL ANSI OEM SQL LZW 7.2 ? ODBC. Access Oracle.

Copyright ©

).

5

). Tray. LZW. 7.3 ODBC ()). Tray. 8 8.1 8.1.1 (Ctrl+N) (Ctrl+O) (Ctrl+F4) (Ctrl+S)

Copyright ©

(Ctrl+P)

(Ctrl+R) (Ctrl+T) (Ctrl+T) (Alt+F4)

8.1.2

. MDI

______(Ctrl+S)

8.1.3

, ; _____(<u>Ctrl+S)</u>.

8.1.4

8.1.5

.

,

·

8.1.6

•

" "

8.1.7

7

8.1.8							
	•		()		,	:	
8.1.9							
8.1.10							
		(•). " . (".).	, (),
8.1.11		·	·).	n .	,	
8.1.12	·			. ().	(),

(

),

().

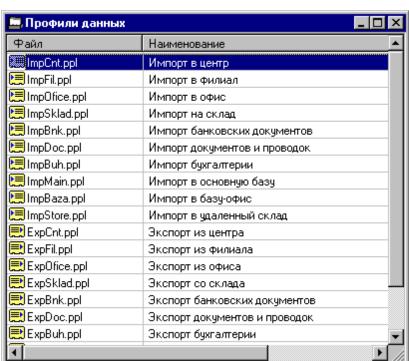
8.1.13

' (. ______).

8.1.14

8.1.15

,



(. ______).
Trans30.ini [pipeline].

9

:

Enter.

8.1.16

8.1.17

MDI

8.2

8.2.1

(Ctrl+Z (Ctrl+X) (Ctrl+C) (Ctrl+V) (Del) (Ctrl+A) (Ctrl+F)

8.2.2

8.2.3

Windows

8.2.4

Windows

8.2.5

Windows

8.2.6

8.2.7

8.2.8

8.2.9

8.3

8.3.1

(Ctrl+lns)
(F2)
(F3)
(F4)
(Ctrl+Del)
(Ctrl+Home)
(Ctrl+Up)
(Ctrl+Down)
(Ctrl+End)
(Ctrl+F4)

8.3.2							
				().	
8.3.3			·				
0.0.0	(1			().	
	() Trans	30.ini.		(<i>)</i> .	
8.3.4							
			().		
						,	
8.3.5							
	()	,).	
8.3.6							
				().	
		Trans30.ini.					
8.3.7							
							,
8.3.8		·					
0.0.0							
					·		,
8.3.9							
							,

Copyright ©

12 3.3

8.3.10

8.3.11

MDI .

8.4

8.4.1

8.4.2

8.4.3

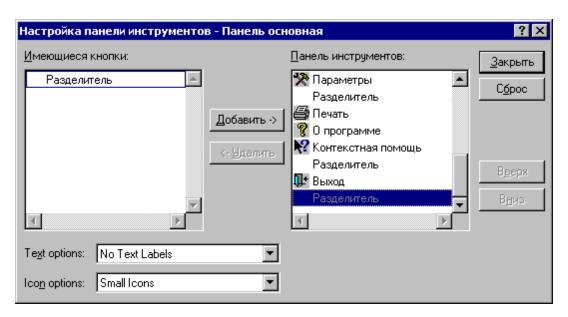
8.4.4

(

Caps Lock, Num Lock Scroll Lock.

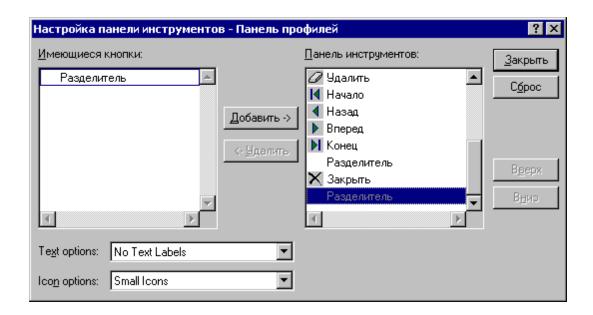
8.4.5

.



8.4.6

.



8.5

8.5.1

8.5.2

MDI

,

8.5.3

MDI ,

8.5.4

MDI .

8.6

8.6.1

_____(F1)

15

file,

? (Shift+F1)

8.6.2

8.6.3 ?

> Shift +F1,

8.6.4

9

9.1

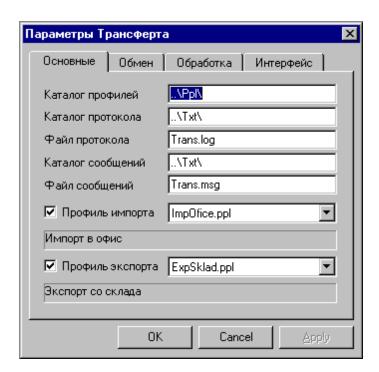
```
(Minimize)
-m
           (Tray)
                                                 Tray
-t
           (Verbose)
-v
           (File)
-f file
           (Parameters)
-p parm
[
                              2, ...,
                                                  N]
              1,
                                          N=
```

2=

–f file,

1=

9.2



•

• . ,

• ,

•

• . ,

(, 05-12-2002_23-28-03_Trans.msg).

(, 05-12-2002_25-26-05_Halls.Hisg).

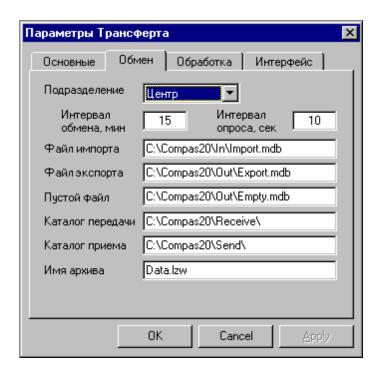
•

,

•

•

9.3

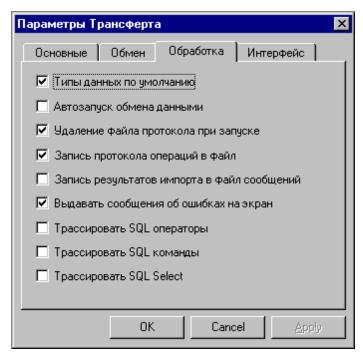


```
Microsoft " ".
" ", " ( ) .
( ) ) .
( ) ) .
( ) ) .
( ) ) .
( ) ) .
( ) ) .
( ) ) .
( ) ) .
( ) ) .
( ) ) .
( ) ) .
```

Microsoft Access.

LZW

9.4

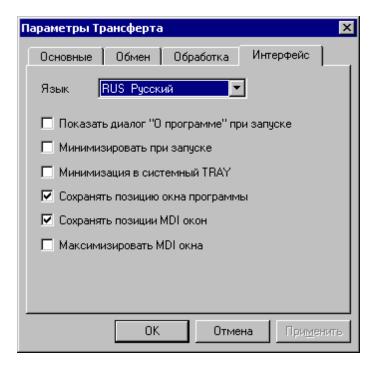


DELETE UPDATE

SQL

• SQL Select. , SELECT

9.5



•

• ,

• **Tray**. , Tray.

,

•

• MDI

•

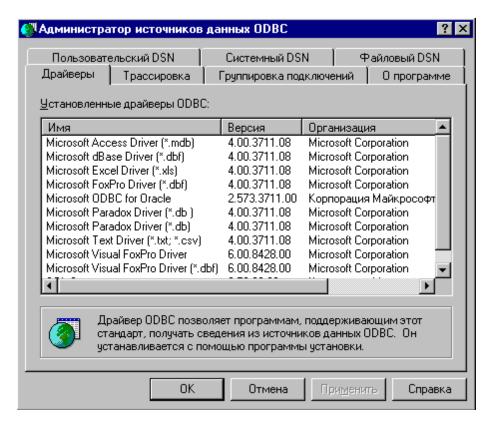
10 ODBC

10.1 ODBC

(Open Database Connectivity - ODBC)

Microsoft.

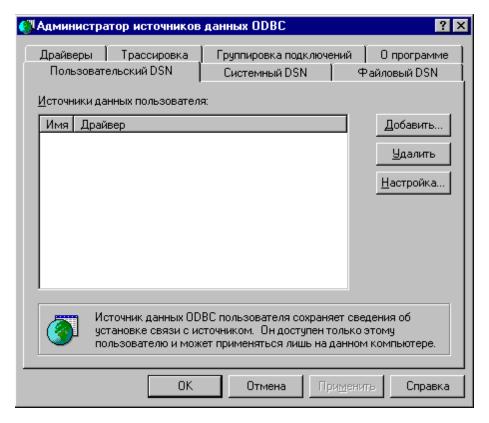
ODBC DBF MDB - Access Basic. Xbase, ODBC SQL. ODBC Windows: DLL. , ODBC Windows 3.1 16-ODBC. Windows 9x, Windows NT, ODBC. Windows 2000, Windows XP 32-32-ODBC:). 10.2 **ODBC ODBC** ODBC Microsoft Office ODBC: Microsoft SQL Server Microsoft ODBC for Oracle Microsoft Access Microsoft Excel Microsoft FoxPro DBase Paradox Text File ODBC Windows, (Control Panel) Control Panel ODBC Data Sources (32 bit) (ODBC Data Source Administrator (ODBC). Drivers



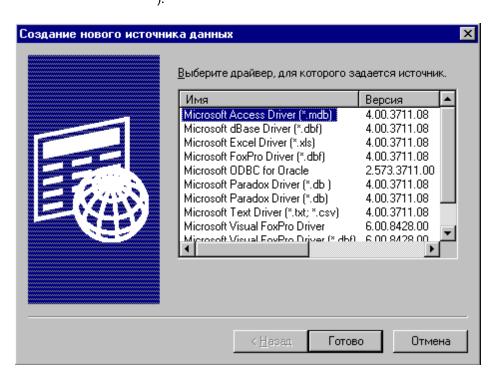
Version () Company (), File () ,

10.3 ODBC

ODBC,



Add (). Create New Data Source (



3

ODBC (, Microsoft Access Driver),

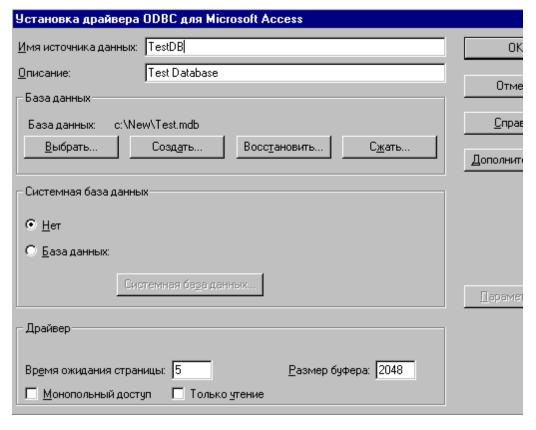
Finish. ODBC Microsoft Access Setup,

ODBC ,

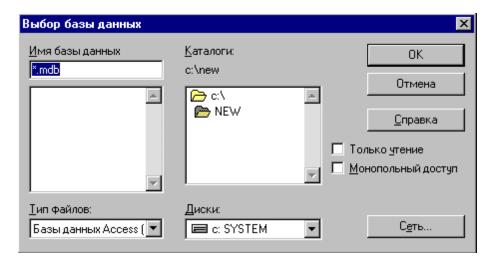
Data Source Name ().

Description ().

None,

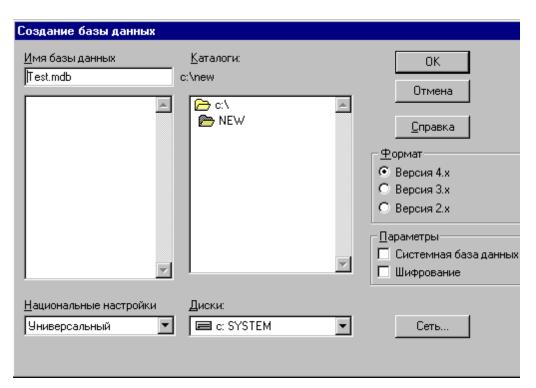


4 , Select (). File Open . ODBC

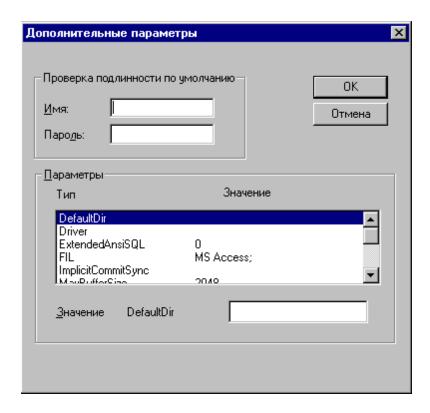


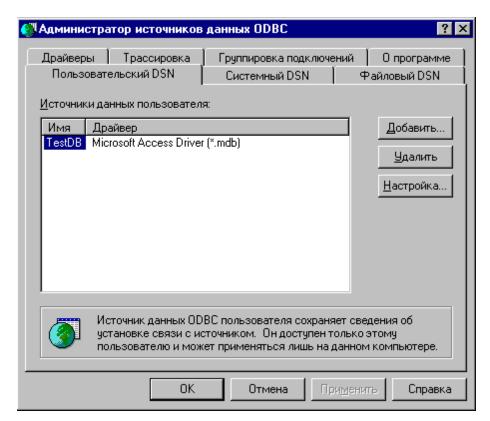
Create (). , ODBS

Access



5
Advanced...
Set Advanced Options (
).
, , , , OK,





10.4 ODBC

```
ODBC.

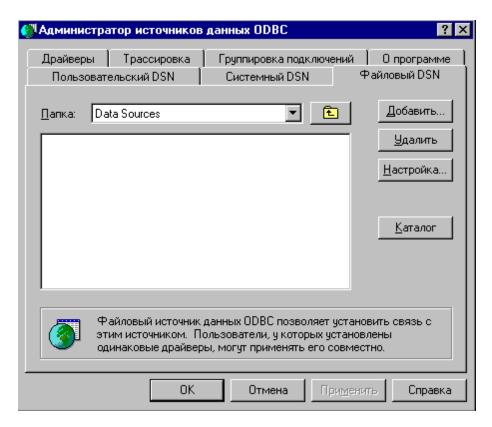
DSN.

ODBC Data Sources (32 bit) (
ODBC Data Source Administrator (
File DSN
DSN.

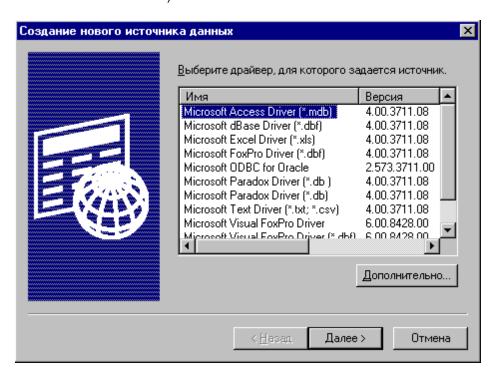
DSN.

ODBC Data Source Administrator (
File DSN
DSN.

Look in (
).
```

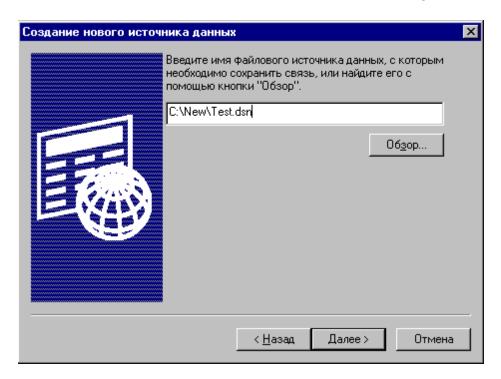


Add (). Create New Data Source (

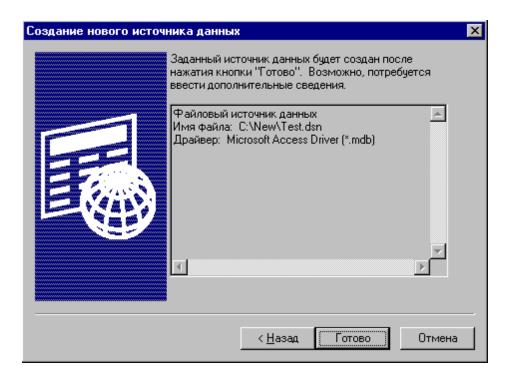


ODBC, Next.
Create New Data Source (

). Browse
() File Open,
. DSN .



Next , DSN,

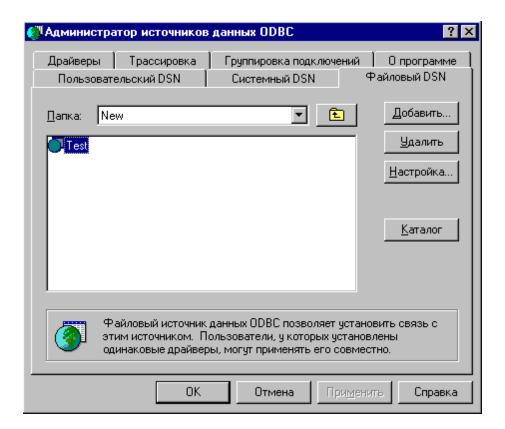


5 Finish ODBC Microsoft Access Setup, . Select ,

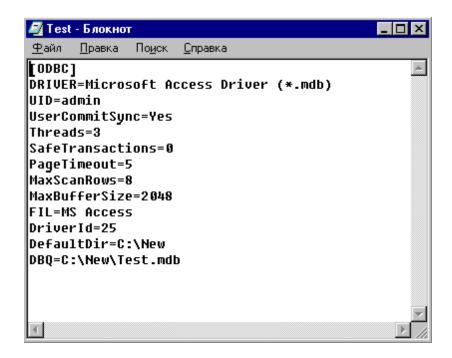
Установка драйвера ODBC для Microsoft Access <u>И</u>мя источника данных: OK Отме База данных База данных: C:\New\Test.mdb Справ Выбрать.. Создать... Восстановить.. С<u>ж</u>ать... Дополнит Системная база данных <u>Н</u>ет ○ <u>Б</u>аза данных: Параме

6 OK, DSN,

ODBC Data Source Administrator.

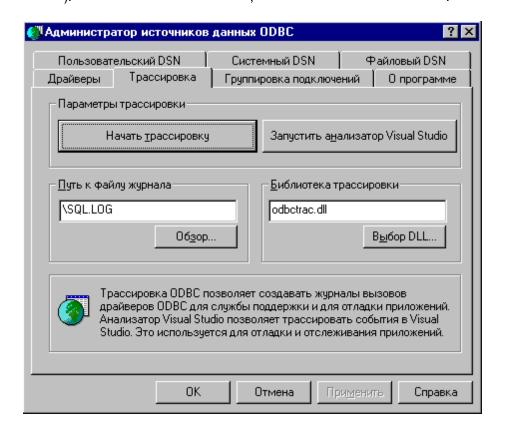


DSN, , , ,



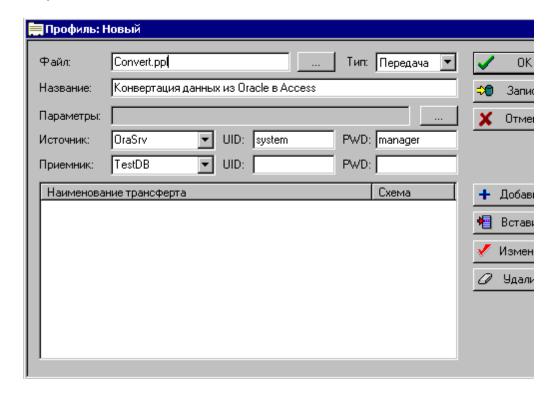
10.5 ODBC

```
, ODBC,
ODBC Data
Source Administrator (
ODBC)
Tracing.
Log file Path.
Start Tracing Now (
Stop Tracing Now (
).
```



- 11
- 11.1
- 11.1.1

11.1.2



• PPL. [...], ,

- , , . . .
- . ODBC.
- ODBC (. <u>ODBC</u>).

 UID
- PWD
 ODBC.

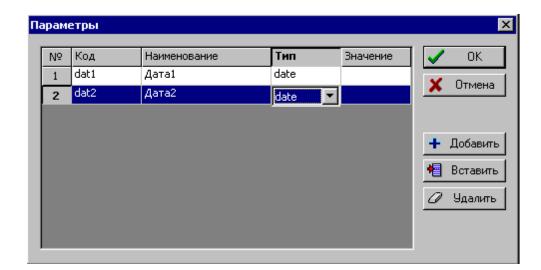
ODBC (. <u>ODBC</u>).

OK.

11.1.3

UID

[...]



,

• • •

•

Char, Integer, Numeric, Date, Time, Timestamp (.

•

, "

" ". " ".

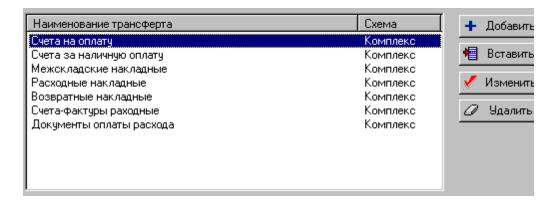
" ". OK,

11.1.4

.

•

34 3.3



11.2

11.2.1

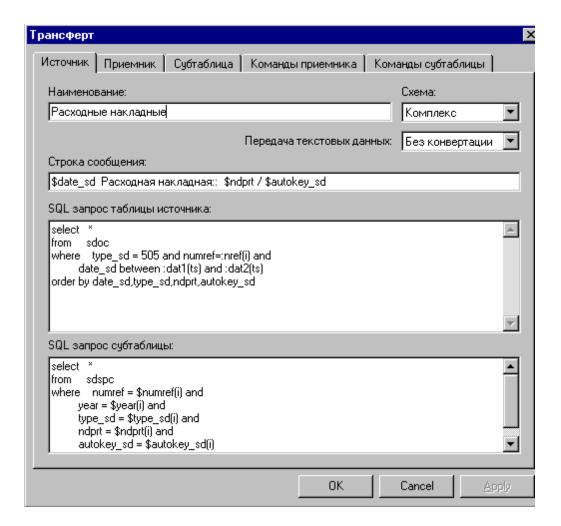
11.2.2

SQL

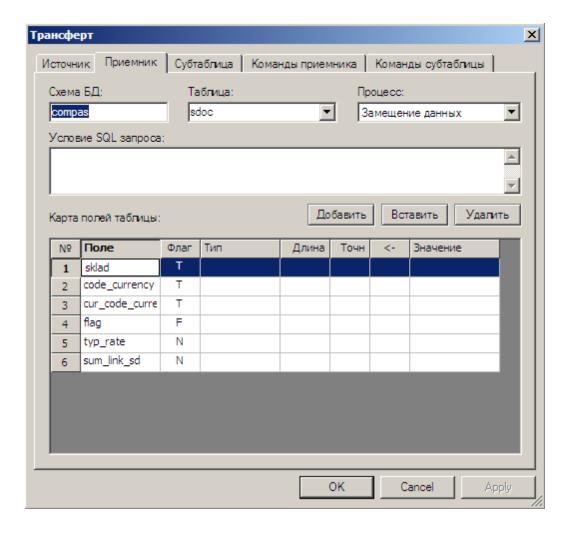
, OEM ANSI, ANSI OEM.

SQL . SQL Select

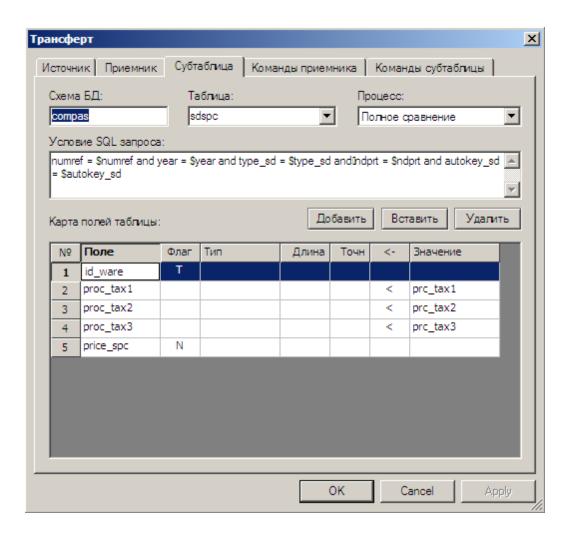
SQL . SQL Select



11.2.3

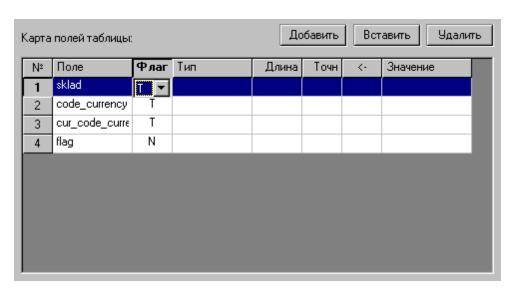


11.2.4



11.2.5

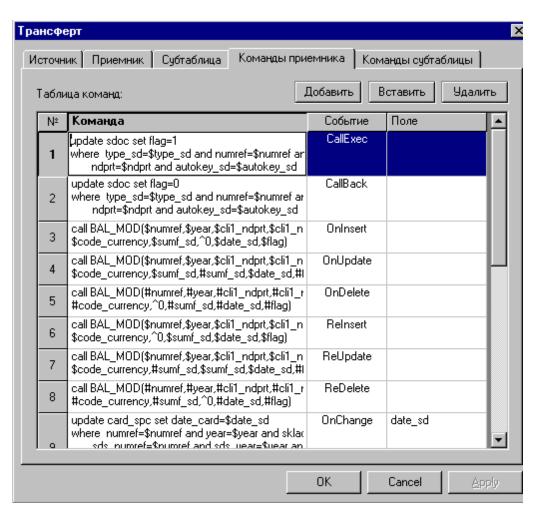
K - N - N - T - F - / — Char, Integer, Numeric, Date, Time, Timestamp (
(<-).



11.2.6

OnChange (). SQL (Insert, Update, Delete) Call). SQL Call (OnStart OnEnd CallExec CallBack OnInsert OnUpdate -OnDelete ReInsert ReUpdate -ReDelete OnChange -ReChange -OnChange.

Copyright ©



" "

11.3

11.3.1

11.3.2

3.3

```
CONNECT{
Source( DSN=;UID=;PWD= )
Destination( DSN=;UID=;PWD= )
TRANSFER{
Name(
Schema( <COLUMNS, COPY, COMPLEX> )
ConvertText( < UNCHANGED, OEMTOANSI, ANSITOOEM> )
Source( SQL Select
SubSQL( SQL Select
Message(
Destination( process=<CREATE,ADD,REPLACE,FULL>
owner=<
table=<
condition( SQL Where
                                   )
columns(
Detail( process=<CREATE,CLEAR,ADD,REPLACE,FULL>
owner=<
table=<
condition( SQL Where
columns(
TabCommands(
SubCommands(
TRANSFER{
                                       PARAMETERS,
                                                              CONNECT
                                 TRANSFER.
      PARAMETERS
      CONNECT
                                           ODBC
                                                              ODBC
                                                                             UID
 PWD
      TRANSFER
Name
Schema
             COLUMNS
             COPY
             COMPLEX
```

```
ConvertText
              UNCHANGED -
              OEMTOANSI -
                                         OEM ANSI
              ANSITOOEM -
                                         ANSI OEM
Source
              SQL Select
SubSQL
              SQL Select
                                                     ).
Message
Destination
              process
             CREATE
              ADD
                                                             (INSERT
                                                             (INSERT
              REPLACE -
              FULL
              owner
             table
              condition = SQL Where (
              columns =
Detail
                                                              Destination.
TabCommands
SubCommands
                        ])]=
    :]
                                  1;
         1[(
    :]
         N[(
                        ])]=
                                  Ν
```

Copyright ©

11.3.3

```
Κ
Ν
Т
F
              COMPLEX.
   =<BT,TI,SI,BI,I,R,F,DB,DC,N,A,VA,LVA,B,VB,LVB,D,T,DT,TS>
        1.
columns(T:sklad;T:code currency;T:cur code currency;F:flaq;N:typ rate;N:sum link sd))
columns(T:id ware;proc tax1=<prc tax1;proc tax2=<prc tax2;proc tax3=<prc tax3; N:price spc))
columns(K:ndprt(I)=$ndprt;K:id_ware(I)=$id_ware;id_parent(I)=$id_parent;
last ware(I)=$last ware;flag ware(I)=$flag ware;flag made(I)=$flag made;
comp ware(I)=$comp ware;code unit(I)=$code unit;code country(I)=$code country;
id pro(I)=$id pro;id ser(I)=$id ser;name ware(VA,80)=$name ware;
name ware2(VA,80)=$name ware2;code ware(VA,30)=$code ware;
code gr(VA,255)=$code gr;barcode(VA,30)=$barcode;marka ware(VA,40)=$marka ware;
okdp_ware(VA,20)=$okdp_ware;post_ware(VA,30)=$post_ware;gost_ware(VA,30)=$gost_ware;
acnt ware(VA,10)=$acnt ware; weight(DB)=$weight; pack(DB)=$pack; cost ware(DB)=$cost ware;
count ware(DB)=$count ware;t tax1(I)=$t tax1;t tax2(I)=$t tax2;t tax3(I)=$t tax3;
v tax1(DB)=$v tax1;v tax2(DB)=$v tax2;v tax3(DB)=$v tax3;wdata(TS)=$wdata;t info(LVA)))
```

11.3.4

(.

```
OnEnd
                                                         )
CallExec
CallBack
OnInsert
OnUpdate
OnDelete
ReInsert
ReUpdate
ReDelete
OnChange
ReChange
           SQL
TabCommands(
CallExec(update sdoc set flag=1
where type sd=$type sd and numref=$numref and year=$year and
    ndprt=$ndprt and autokey_sd=$autokey_sd)
CallBack(update sdoc set flag=0
where type_sd=$type_sd and numref=$numref and year=$year and
    ndprt=$ndprt and autokey sd=$autokey sd)
OnInsert(call BAL_MOD($numref,$year,$cli1_ndprt,$cli1_numb_client,
$code_currency,^0,$sumf_sd,$date_sd,$flag))
OnUpdate(call BAL MOD($numref,$year,$cli1_ndprt,$cli1_numb_client,
$code_currency,#sumf_sd,$sumf_sd,$date_sd,#flag))
OnDelete(call BAL MOD(#numref, #year, #cli1_ndprt, #cli1_numb_client,
#code currency, #sumf sd, \gamma, #date sd, #flag))
ReInsert(call BAL MOD($numref,$year,$cli1_ndprt,$cli1_numb_client,
$code_currency,$sumf_sd,^0,$date_sd,$flag))
ReUpdate(call BAL_MOD($numref,$year,$cli1_ndprt,$cli1_numb_client,
$code_currency,$sumf_sd,#sumf_sd,$date_sd,#flag))
ReDelete(call BAL MOD(#numref, #year, #cli1_ndprt, #cli1_numb_client,
#code currency, \gamma, #sumf sd, #date sd, #flag))
OnChange.date_sd(update card_spc set date_card=$date_sd
where numref=$numref and year=$year and sklad=$sklad and
    sds_numref=$numref and sds_year=$year and
    type sd=$type sd and sds ndprt=$ndprt and
    autokey sd=$autokey sd)
OnChange.cli1 numb_client(call BAL_MOD(#numref, #year,
#cli1_ndprt,#cli1_numb_client,#code_currency,#sumf_sd,^0,#date_sd,#flag);
call BAL_MOD($numref,$year,
$cli1_ndprt,$cli1_numb_client,$code_currency,^0,#sumf_sd,$date_sd,#flag);
update card spc set cli ndprt=$cli1 ndprt,
    numb client=$cli1 numb client
where numref=$numref and year=$year and sklad=$sklad and
    sds_numref=$numref and sds_year=$year and
    type_sd=$type_sd and sds_ndprt=$ndprt and
    autokey sd=$autokey sd)
```

ReChange.date_sd(update card_spc set date_card=#date_sd

where numref=\$numref and year=\$year and sklad=\$sklad and sds_numref=\$numref and sds_year=\$year and type_sd=\$type_sd and sds_ndprt=\$ndprt and autokey_sd=\$autokey_sd)

ReChange.cli1_numb_client(call BAL_MOD(\$numref,\$year,

\$cli1_ndprt,\$cli1_numb_client,\$code_currency,#sumf_sd,^0,\$date_sd,#flag); call BAL_MOD(#numref,#year,

#cli1_ndprt,#cli1_numb_client,#code_currency,^0,#sumf_sd,#date_sd,#flag); update card_spc set cli_ndprt=#cli1_ndprt,

numb_client=#cli1_numb_client

where numref=\$numref and year=\$year and sklad=\$sklad and sds_numref=\$numref and sds_year=\$year and type_sd=\$type_sd and sds_ndprt=\$ndprt and autokey_sd=\$autokey_sd))

11.3.5

	ODBC SQL		_			
_ BT	<u>type</u> Bit					
Π	TinyInt		3		-128 ~ 127 (0 ~
SI	SmallInt	255) ~ 65535)	5		-32768 ~ 32767 (0
ВІ	BigInt	22223)	19		-2 ^{^63} ~ 2 ^{^63} -1 (0 ~
		2 ^{^64} -1)			,	
1	Integer		10		-2 ^{^31} ~ 2 ^{^31} -1 (0 ~
		2 ^{^32} -1)				
R	Real	10 ^{^38}			24	0 ~
F	Float	10 00				p.
DB	Double				53	0 ~
		10 ^{^308}				
DC	Decimal		s. (p). 1 <= p <
		15, s <= p				
N	Numeric		s 1<= r	o < 15, s <= p		p
Α	Char		5 _F	, то, от тр	n.	
VA LVA	VarChar LongVarChar					n.
LVA	LongvarChai			ODBC.	•	
В	Binary				n.	_
VB LVB	VarBinary LongVarBinary					n.
				ODBC.		
T D	Time Date	,	,			

11.3.6 SQL Insert Update. Update. SQL Insert, : Update. SQL Insert \$ Update. SQL Insert SQL Insert Update. SQL Insert Update. SQL Insert Update. < % SQL 11.3.7 %.

TS

Timestamp

SQLGetVal field, table, where expr field table where expr. SQLMaxVal field, table, where expr field table where expr. SQLMinVal field, table, where expr field table where expr. field SQLAvgVal field, table, where expr table where expr. SQLVarVal field, table, where expr field table where expr. field SQLSumVal field, table, where expr table where expr. **SQLCount** table, where expr table, where expr.

12

12.1

• (, Oracle Access).
,
,
,
,
,
,

·

12.2

Copyright ©

	SQL) , ,	(
	SQL Insert SQL Update. : OnStart, OnInsert, ReInsert, OnUpdate, ReUpdate, OnChange, ReChange, OnEnd.	
		,
	SQL Delete.	
	SQL . : OnStart, OnDelete, ReDelete, OnInsert, ReInsert, OnUpdate, ReUpdate, OnChange, ReChange, OnEnd.	
12.3		
	"	/

. . .

, , , , , ,

```
).
                                                                                                     ).
1.
              SQL (Insert, Update).
                                       (OnInsert, OnUpdate).
    Update
                                                   Insert
                                                                                 CallBack (
                ).
2.
                                                    F(
                                                                                              ,
OnInsert.
                                                                             OnInsert.
                                   CallBack
3.
                                                    F (
    OnDelete.
                                                             .
OnDelete.
                           ,
CallExec
                                                                                                Т
4.
5.
            Т(
                      ).
                                                        SQL
6.
```

Copyright ©

```
(
).
                                                   ReInsert, ReUpdate, ReDelete).
        7.
                                 ),
                                                                                     SQL
                            SQL Insert (
                                                    CallBack
                                                                 SQL Update,
                                                          SQL
                                                                         ).
12.4
              N(
              K(
                                 ).
              F(
                                   ).
```

Copyright ©

```
Т(
                                                                                 ).
           SQL
OnChange (ReChange),
                                                 SQL (Insert, Update, Delete)
                    (Call).
                                                                             Call
OnStart
OnEnd
OnInsert
                                          SQL Insert
ReInsert
OnInsert.
                                                        OnInsert,
                                                                          ,
OnInsert.
                        SQL,
OnUpdate
                                          SQL Update
```

12.5

ReUpdate OnUpdate, OnUpdate. OnUpdate. SQL, OnDelete SQL Delete. SQL Delete. ReDelete OnDelete, OnDelete. OnDelete. SQL, OnChange ReChange , OnChange, OnChange. OnChange. SQL, CallExec CallExec **CallBack** CallBack

12.6

```
2.
3.
                                                                                     LZW.
4.
                                                                         ).
                                                    .tmp,
5.
6.
7.
8.
9.
                                  LZW.
10.
                                                                                                 ),
11.
                                                 - "Books"
                                              - "Music"
- "Transactions"
                                                                . \\ \mathsf{PPL} \\ \mathsf{.}
                                                                                                              : books.ppl,
music.ppl, trans.ppl.
                                                             Microsoft Access.
                                                                                                  Microsoft Access.
                                                                                     ODBC
.\In\Import.mdb
. \\ \\ Out \\ \\ \dot{E}xport.mdb \\
```

13

13.1

```
13.2
                                                       - "Books"
             : books.ppl.
                                                 Import.mdb - Books.
                                                                    : Authors Books.
                                                                                    Books
                            Authors.
                       (+)
                                             ID_Author.
                                                                Books
                          id_author,
                                                                                  Authors.
                                                                                   SQLGetVal().
                                                                      SQL-
               K (
                                                       ODBC
                                        Books
                            size
               : varchar
                              integer.
                                                   - "Music"
13.3
             : music.ppl.
                                                                                SQL-
                : max_records.
                                                    SQL-
```

Copyright ©

2009

,

13.4 - "Transactions"

: trans.ppl.

(). Transactions : Curr Trans. Curr

SQL- SQLGetVal(). Trans
balance,

SQLSQLSumVal(),
Trans.

SQLSQL-

SQL- , OnEnd. ,

, helenes , Trans

balance Trans.

14

14.1

DBF
DBMS ()
DLL
LZW
MDB
MDI
ODBC
PPL
PWD
SQL
System Tray
UID
xBase

14.2

```
=<char, integer, numeric, date, time, timestamp>
CONNECT{
Source( DSN=;UID=;PWD= )
Destination(DSN=;UID=;PWD=)
TRANSFER{
Name(
Schema( <COLUMNS, COPY, COMPLEX> )
ConvertText( < UNCHANGED, OEMTOANSI, ANSITOOEM> )
Source( SQL Select
                                   )
SubSQL( SQL Select
Message(
Destination( process=<CREATE, ADD, REPLACE, FULL>
owner=<
table=<
condition( SQL Where
                                    )
columns(
Detail( process=<CREATE,CLEAR,ADD,REPLACE,FULL>
 owner=<
 table=<
 condition( SQL Where
                               )
 columns(
TabCommands(
SubCommands(
TRANSFER{
}
                                        PARAMETERS,
                                                                 CONNECT
                                   TRANSFER.
      PARAMETERS
      CONNECT
                                            ODBC
                                                                ODBC
                                                                               UID
 PWD
      TRANSFER
Name
Schema
              COLUMNS
              COPY
```

```
COMPLEX
ConvertText
              UNCHANGED -
              OEMTOANSI -
                                         OEM ANSI
              ANSITOOEM -
                                         ANSI OEM
Source
              SQL Select
SubSQL
              SQL Select
                                          (
                                                     ).
Message
Destination
              process
              CREATE
              ADD
                                                             (INSERT
              REPLACE -
                                                             (INSERT
              FULL
              owner
              table
              condition = SQL Where (
              columns =
Detail
                                                              Destination.
TabCommands
SubCommands
                        ])]=
                                  1;
    :]
         1[(
    :]
         N[(
                        ])]=
                                  Ν
```

14.3

```
Κ
Ν
Т
F
              COMPLEX.
   =<BT,TI,SI,BI,I,R,F,DB,DC,N,A,VA,LVA,B,VB,LVB,D,T,DT,TS>
columns(T:sklad;T:code_currency;T:cur_code_currency;F:flag;N:typ_rate;N:sum_link_sd))
        2.
columns(T:id_ware;proc_tax1=<prc_tax1;proc_tax2=<prc_tax2;proc_tax3=<prc_tax3; N:price_spc))</pre>
        3.
columns(K:ndprt(I)=$ndprt;K:id_ware(I)=$id_ware;id_parent(I)=$id_parent;
last ware(I)=$last ware;flag ware(I)=$flag ware;flag made(I)=$flag made;
comp ware(I)=$comp ware;code unit(I)=$code unit;code country(I)=$code country;
id_pro(I)=$id_pro;id_ser(I)=$id_ser;name_ware(VA,80)=$name_ware;
name ware2(VA,80)=$name ware2;code ware(VA,30)=$code ware;
code_gr(VA,255)=$code_gr;barcode(VA,30)=$barcode;marka_ware(VA,40)=$marka_ware;
okdp ware(VA,20)=$okdp ware;post ware(VA,30)=$post ware;qost ware(VA,30)=$qost ware;
acnt ware(VA,10)=$acnt ware; weight(DB)=$weight; pack(DB)=$pack; cost ware(DB)=$cost ware;
count_ware(DB)=$count_ware;t_tax1(I)=$t_tax1;t_tax2(I)=$t_tax2;t_tax3(I)=$t_tax3;
v tax1(DB)=$v tax1;v tax2(DB)=$v tax2;v tax3(DB)=$v tax3;wdata(TS)=$wdata;t info(LVA)))
```

14.4

TabCommands(

CallExec(update sdoc set flag=1

where type_sd=\$type_sd and numref=\$numref and year=\$year and ndprt=\$ndprt and autokey_sd=\$autokey_sd)

CallBack(update sdoc set flag=0

where type_sd=\$type_sd and numref=\$numref and year=\$year and ndprt=\$ndprt and autokey_sd=\$autokey_sd)

OnInsert(call BAL_MOD(\$numref,\$year,\$cli1_ndprt,\$cli1_numb_client, \$code currency,^0,\$sumf sd,\$date_sd,\$flag))

OnUpdate(call BAL_MOD(\$numref,\$year,\$cli1_ndprt,\$cli1_numb_client, \$code currency,#sumf sd,\$sumf sd,\$date sd,#flag))

OnDelete(call BAL_MOD(#numref,#year,#cli1_ndprt,#cli1_numb_client, #code_currency,#sumf_sd,^0,#date_sd,#flag))

ReInsert(call BAL_MOD(\$numref,\$year,\$cli1_ndprt,\$cli1_numb_client,\$code_currency,\$sumf_sd,^0,\$date_sd,\$flag))

ReUpdate(call BAL_MOD(\$numref,\$year,\$cli1_ndprt,\$cli1_numb_client,\$code_currency,\$sumf_sd,\$sumf_sd,\$date_sd,#flag))

ReDelete(call BAL_MOD(#numref,#year,#cli1_ndprt,#cli1_numb_client, #code_currency,^0,#sumf_sd,#date_sd,#flag))

OnChange.date_sd(update card_spc set date_card=\$date_sd where numref=\$numref and year=\$year and sklad=\$sklad and sds_numref=\$numref and sds_year=\$year and type_sd=\$type_sd and sds_ndprt=\$ndprt and autokey_sd=\$autokey_sd)

OnChange.cli1 numb client(call BAL MOD(#numref, #year,

#cli1_ndprt,#cli1_numb_client,#code_currency,#sumf_sd,^0,#date_sd,#flag); call BAL_MOD(\$numref,\$year,

\$cli1_ndprt,\$cli1_numb_client,\$code_currency,^0,#sumf_sd,\$date_sd,#flag); update card_spc set cli_ndprt=\$cli1_ndprt,

numb_client=\$cli1_numb_client

where numref=\$numref and year=\$year and sklad=\$sklad and sds_numref=\$numref and sds_year=\$year and type_sd=\$type_sd and sds_ndprt=\$ndprt and

autokey_sd=\$autokey_sd)

ReChange.date_sd(update card_spc set date_card=#date_sd where numref=\$numref and year=\$year and sklad=\$sklad and sds_numref=\$numref and sds_year=\$year and type_sd=\$type_sd and sds_ndprt=\$ndprt and autokey_sd=\$autokey_sd)

ReChange.cli1_numb_client(call BAL_MOD(\$numref,\$year,

\$cli1_ndprt,\$cli1_numb_client,\$code_currency,#sumf_sd,^0,\$date_sd,#flag); call BAL_MOD(#numref,#year,

 $\label{lem:code_currency,power} $$\# cli1_ndprt, \# cli1_numb_client, \# code_currency, power_sd, \# date_sd, \# flag); $$ update card_spc set cli_ndprt= \# cli1_ndprt, $$$

numb_client=#cli1_numb_client

where numref=\$numref and year=\$year and sklad=\$sklad and sds_numref=\$numref and sds_year=\$year and type_sd=\$type_sd and sds_ndprt=\$ndprt and autokey_sd=\$autokey_sd))

14.5

	ODBC SQL				
_ BT	<u>type</u> Bit				
TI	TinyInt	255)	3	-128 ~ 127 (0 ~
SI	SmallInt	~ 65535)	5	-32768 ~ 32767 (0
ВІ	BigInt	2 ^{^64} -1)	19	-2 ^{^63} ~ 2 ^{^63} -1 (0 ~
1	Integer	2 ^{^32} -1)	10	-2 ^{^31} ~ 2 ^{^31} -1 (0 ~
R	Real	10 ^{^38}		24	0 ~
F DB	Float Double	10 ^{^308}		53	p. 0 ~
DC	Decimal		s. (p). 1 <= p <
N	Numeric		s. 1 <= p < 15, s <= p		р
A VA LVA	Char VarChar LongVarChar		, , ,	n.	n.
В	Binary		ODBC.	n.	
VB	VarBinary			11.	n.
LVB	LongVarBinary		ODBC.	•	

14.6	T D TS	Time Date Timestamp	,				·
	+	()	Update.		SQI	_ Insert
					S	QL Insert,	Update.
	:				SQL Insert	: Update	
	\$				SQL Insert		
	~					QL Insert	Update.
	!				SQL Insert	Update	
	<				S	QL Insert	Update.
	%				s	GQL	·
44-							_

14.7

				%.	
2010-11	E-1-1 t-1-1			G-1-I	:
SQLGetVal	field, table, where expr			field	table where
		expr.			
SQLMaxVal	field, table, where expr	,			field
			table		
SQLMinVal	field, table, where expr		where expr.		field
OQLIVIIIIV	noid, table, where expi		table		Hold
			where expr.		
SQLAvgVal	field, table, where expr			f	ield
			table		
0011/			where expr.		<i></i>
SQLVarVal	field, table, where expr		tabla		field
			table where expr.		
SQLSumVal	field, table, where expr		wilete expr.	fie	ld
OQLOGITYAI	noid, table, where expr		table	110	ıu
			where expr.		
SQLCount	table, where expr		•		table,
			where expr.		

