"ODBC Database"

1

"ODBC database" (ODBC)
(   ).   ,
                                                    ODBC   ,
                    .
                                            .
                                (,   ),
                    .

                                                    :

- • SQL.   ;
- • MS SQL Server;
- • Oracle database (7)
- • dBASE I-IV files;
- • Paradox;
- • DBF;
- • MS Excel;
- • CSV;
- •   ,   ODBC   (, Lotus Notes/Domino
  ODBC   NotesSQL).

            (,   ),
            SQL Database Professional.

2

            ODBC Database   :

                    : Windows 2000 SP4   ,   32-x   64-x
        ,   .
                                        -                  .

                                    :   5 MB
            .
                    .

                                    :
    .
            .

                                            (   ),   Advanced Serial Data Logger.

3   ODBC Database

1.   (, Advanced Serial Data Logger),   ;
2.   ;
3.   ,
     Windows;
4.   .
     " ";
5.   .
     ,   " ".

     ,

     .   . 1-2.

     " "   .

     .

     " - ".

     " "   " ".

. 1.

4

Plug-in -

-   ,   .   :

Advanced Serial Data Logger

-       ."   ".

-           ,   ,

.

.

-       ."   ".

5

5.1   DSN?

Microsoft, DSN (data source name -   ) -
        "   ,
ODBC."   ,   ,   ODBC.
                                                        :   ,
        ,   ,   ,   . .   ,   ,
                                                                              ,
        DSN   .

DSN?

                                        ,   DSN:

- **DSN** -   DSN   ,
                        .   ,
                                DSN (   ).
                        .

- **DSN** -   DSN   .
                ,   DSN,   .
DSN,   DSN   .

                        ,   DSN   .   ,
        DSN.   DSN   ,
        -       ?!   ,   .   ,   .DSN.
,   ,   ,
                        .   ,   ,   Visual Basic   Access.

DSN

,   DSN

MS Access.

------------- file.dsn -------
[ODBC]
DRIVER=Microsoft Access Driver (*.mdb)
ReadOnly=0
UserCommitSync=Yes
Threads=3
SafeTransactions=0
PageTimeout=5
MaxScanRows=8
MaxBufferSize=512
ImplicitCommitSync=Yes
FIL=MS Access
DriverId=25

5.2

ODBC.   ,
,   ODBC   .
: Oracle, MS SQL, MS Access, MS Excel, FoxPro, dBASE.
.
ODBC   ODBC   Microsoft (www.microsoft.com)
.

:

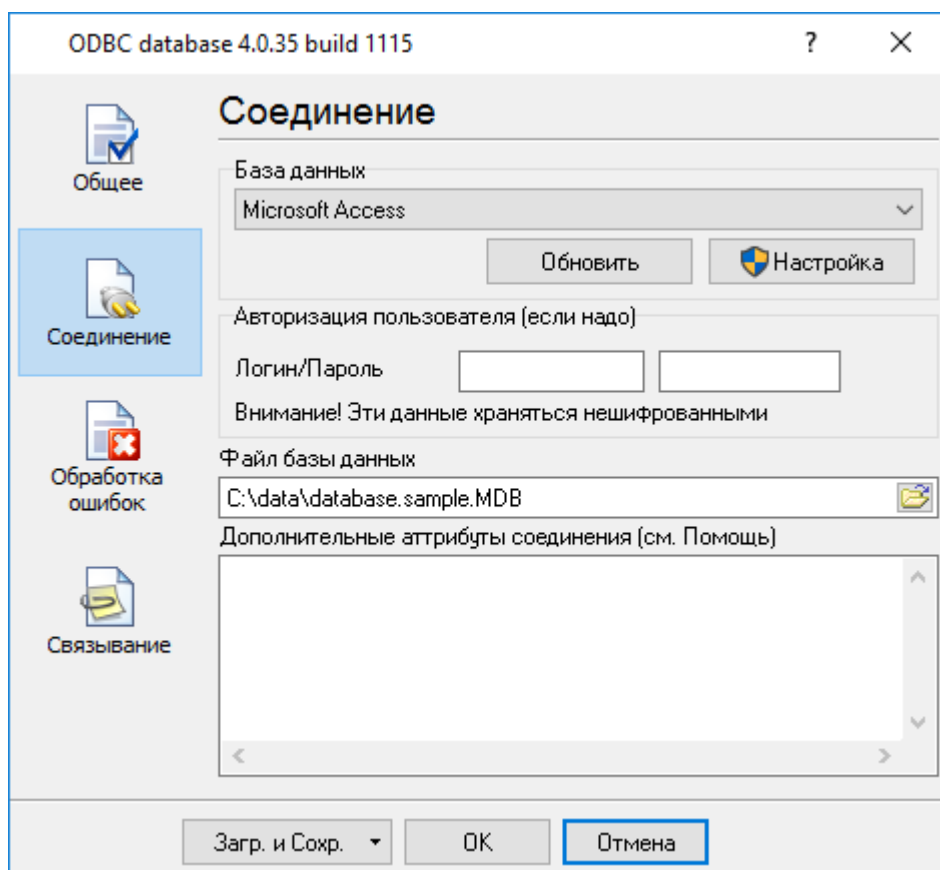1.   ,   **ODBC**
      .   "   " (.1).
      "   ODBC" (.2).
"   "   ,
         .   ODBC   .
                  Internet Explorer 5.0
       Microsoft Data Access Components (MDAC)   Microsoft
http://www.microsoft.com/odbc.

.1.
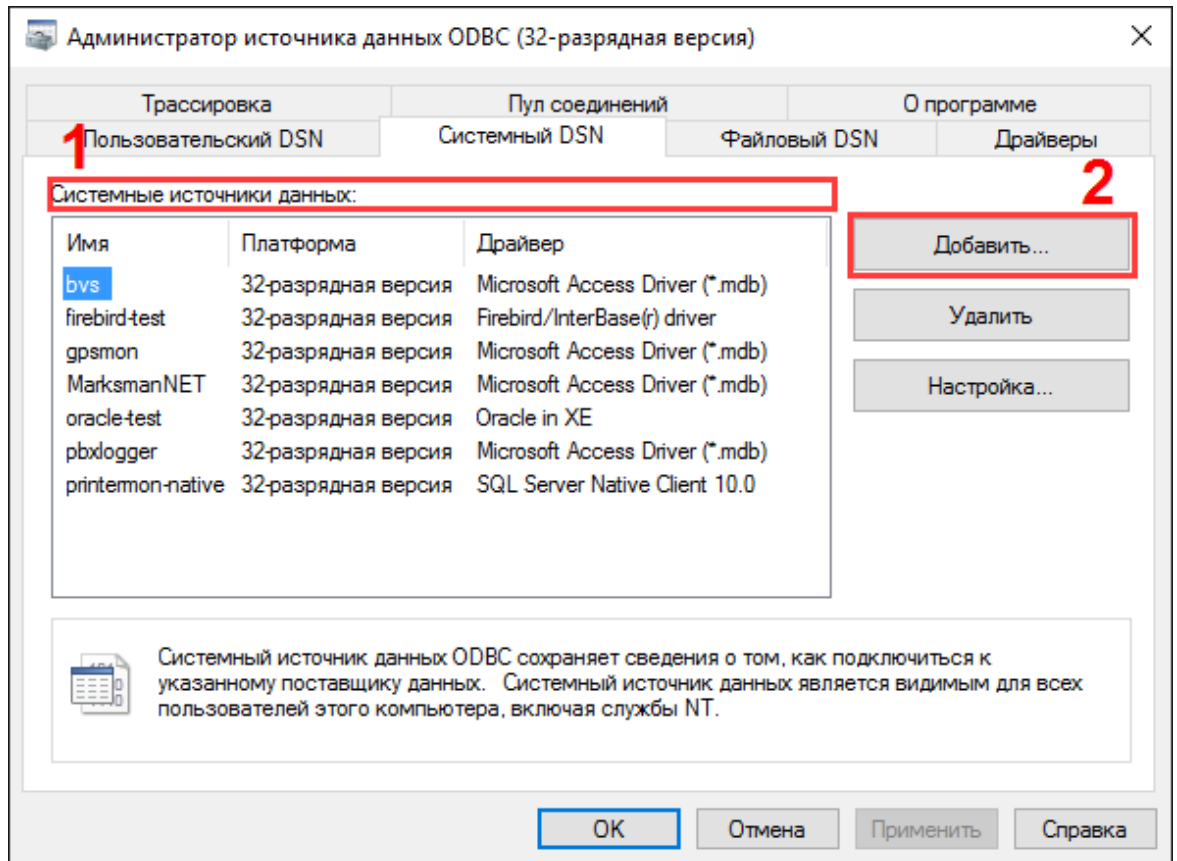
.2

2.

           (.2).

           (, "   DSN"),   "   "

           Windows NT/2000/XP,

             "   DSN".   ,

        ,   "   "   "   " (.1)

3.

        !   **!**

4.   ,   DBF   Microsoft Access,
                "   ".

5.   ,

            .   ,   ,

           .   ODBC   :

```
[DSN=<data-source-name>]
[FILEDSN=<data-source-name.dsn>]
[UID=<        >]
[PWD=<        >]
[DBQ=<        >]
[ISOLATIONLEVEL=<value>]
```

- **DSN** -   .   ,
  "   ".
- **FILEDSN -**   .dsn   (. .   DSN).
            DSN,   .
- **UID** -   (   );
- **PWD** -   (   );
- **DBQ** -   (,   MS Access).
                                     .   ,   "
            ".

                                                        ,
            .   ,
                  .   :

```
[<              >=<        >]
```

            ,   DSN.
                              -                                ,   ,   .
                                                                                                    .

            1. ODBC
            .

            1:
                                                        "MS Access 97 Database",
"D:\incom.mdb":
DBQ=D:\incom.mdb

            2:
                                                "Payroll"   Oracle "*moola*",
      ,   :
DSN=Payroll
UID=/
SERVER=moola

6.   .   ,   ,
                  .   ,   "OK" (.1)
                  .
                                                            .
                              "_____".

5.3

5.3.1   Oracle

- **DSN** -   .   ,
            "   ".

- **PWD** -   Oracle,   .
                 ,   Oracle   .
- **SERVER** -   Oracle.   (   )
       .
- **UID** -   Oracle.
         .   "/"   Oracle.
- **BUFFERSIZE** -   .
           ,   ,
        .
            .
- **StdDayOfWeek** -   ,   ODBC   DAYOFWEEK.
                  ,   ,
          ,   .

5.3.2   FoxPro

- **BackgroundFetch** -   " "   " ".
- **Collate** -   "Machine"   .
- **Exclusive** -   - " "   " ".
- **SourceDB** -   ,
       .
- **SourceType** -   "DBC"   "DBF".

5.4

5.4.1

                    :

- **DSN** -   .   ,
          "   ".
- **UID** -   (   );
- **PWD** -   (   );
- **DBQ** -   (,   MS Access).
         .   ,   "
    ".

                   ,
        .

:   -   ,   ,
                    .

5.4.2 dBASE

- **COLLATINGSEQUENCE** -   .
                                         : ASCII (   )   International.
                                         Collating Sequence
        .
- **DEFAULTDIR** -   ,   .
- **DELETED** -   ,   ,   .
                    = 1,   ,   = 0,
                                        (   )   .
                ,   "Show Deleted Rows"   .
- **DESCRIPTION** -   .   ,
                "Description"   .
- **DRIVER** -   DLL   .
- **DRIVERID** -   ,   21 (dBASE III), 277 (dBASE IV), 533 (dBASE 5.0)
- **FIL** -   : dBASE III, dBASE IV, or dBASE 5
- **PAGETIMEOUT** -   ,
                                        .   - 600 (60   ).
                :   ,
                                        ODBC   .
                ,   "Page Timeout"   .
- **READONLY** - TRUE   ; FALSE
                                    .   ,
                "Read Only"   .
- **STATISTICS** -   dBASE,   ,
                    .   :
                ,   ODBC   .
                    ,   "Approximate Row Count"
                    .
- **THREADS** -   ,   .
                    3   .   ,
                "Threads"   .

5.4.3 Paradox

- **COLLATINGSEQUENCE** -   .
                                         : ASCII (   )   International.
                                         Collating Sequence
        .
- **DEFAULTDIR** -   ,   .
- **DESCRIPTION** -   .   ,
                "Description"   .
- **DRIVER** -   DLL   .
- **DRIVERID** -   ,   26 (Paradox 3.x), 282 (Paradox 4.x), 538 (Paradox 5.x)
- **FIL** -   : Paradox 3.x, Paradox 4.x, or Paradox 5.x

- **PAGETIMEOUT** -   ,
                       .   - 600 (60   ).
            :   ,
                       ODBC   .
        ,   "Page Timeout"   .
- **PARADOXNETPATH** -   ,   Paradox,
             PDOXUSRS.net (Paradox 4.x)   PARADOX.net (Paradox 5.x).
                       ,   .
                  Paradox.
               Paradox.   ,   "Select Network
  Directory"   .
- **PARADOXNETSTYLE** -   Paradox: "3.x"
      Paradox 3.x   "4.x"   Paradox 4.x   5.x.   "3.x"   "4.x"
       Paradox 4.x   5.x;   Paradox 3.x,
  "3.x".   ,   "Net Style"
            .
- **PARADOXUSERNAME** -   Paradox.
        ,   "User Name"   .
- **PWD** -   .   DSN.
          ODBC   SQLDriverConnect
  Paradox.   .   ,
            .   ,
            .
- **READONLY** - TRUE   ; FALSE
              .   ,
      "Read Only"   .
- **THREADS** -   ,   .
           3   .   ,
      "Threads"   .

5.4.4 Excel

- **DBQ** -   Microsoft Excel   Microsoft Excel 5.0, 7.0,
  97.   "Database"
        .
- **DEFAULTDIR** -   ,   Excel.
                "Select Directory or Select Workbook"
        .
- **DESCRIPTION** -   .   ,
        "Description"   .
- **DRIVER** -   DLL   .
- **DRIVERID** -   ,   534 (Microsoft Excel 3.0), 278 (Microsoft Excel 4.0), 22
  (Microsoft Excel 5.0/7.0), 790 (Microsoft Excel 97   )
- **FIL** -   - Excel 3.0, Excel 4.0, Excel 5.0, Excel 7.0,   Excel 97
- **FIRSTROWHASNAMES** -   1   ,
         Excel   .
- **MAXSCANROWS** -   ,   ,
       .   1   16.   : 8.
        0,   .   ,
        "Rows to Scan"   .

- **READONLY** - TRUE   ; FALSE
                                               .   ,
        "Read Only"   .
- **THREADS** -   ,   .
                                3   .   ,
        "Threads"   .

5.4.5

- **CHARACTERSET** -   : OEM   ANSI.
- **COLNAMEHEADER** -   TRUE   ,
                        Excel   .
- **DEFAULTDIR** -   ,   .
- **DESCRIPTION** -   .   ,
                        "Description"   .
- **DRIVER** -   DLL   .
- **DRIVERID** -   ,   27 (Text)
- **EXTENSIONS** -   .
                                                            ,   "Extensions"   .
- **FIL** -   Text
- **FILETYPE** -   (Text).
- **FORMAT** -   FIXEDLENGTH, TABDELIMITED, CSVDELIMITED (   ),
        DELIMITED() (   ).
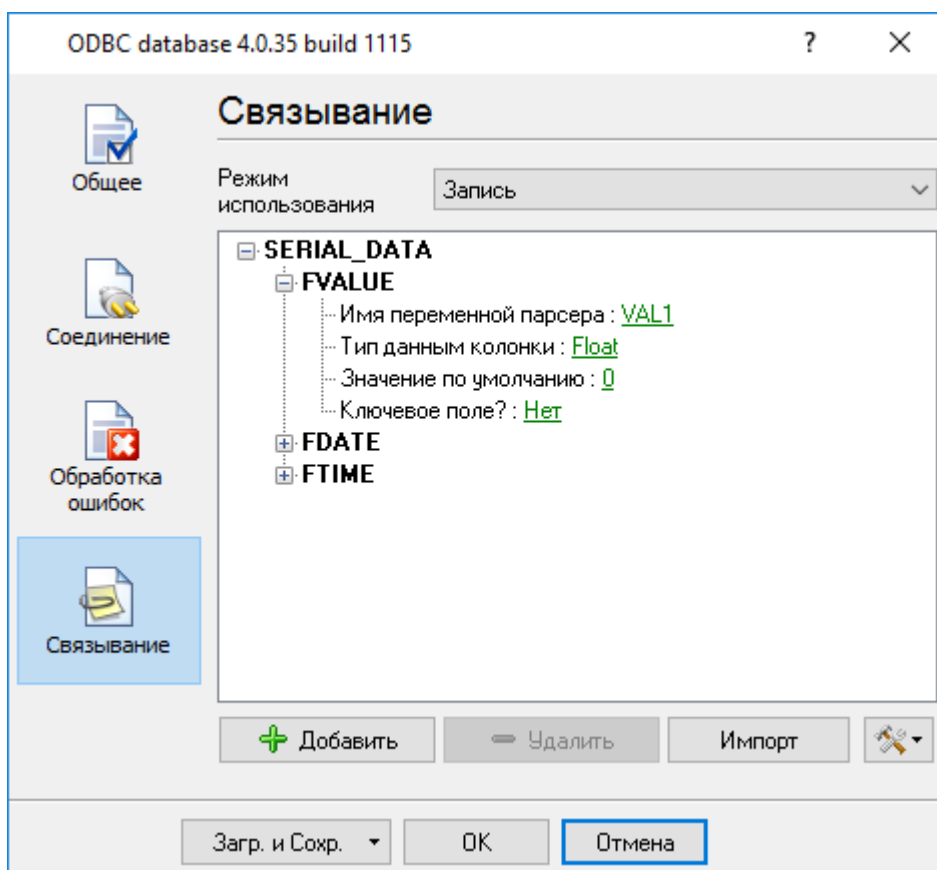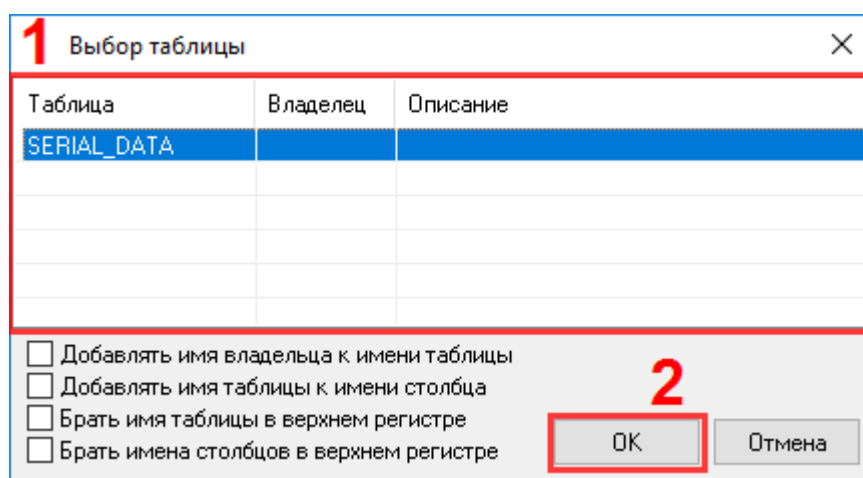- **MAXSCANROWS** -   ,   ,
                                .   1   32767.   : 25.
                                0,   .
                ,   "Rows to Scan"   .
- **READONLY** - TRUE   ; FALSE
                                               .   ,
        "Read Only"   .

5.5

                                                                                                                                                            .
                        ,   (PRIMARY KEY),
                                                        (FOREIGN KEY),   . .
                                                                                                        .
                                                "   " (. 1)

.1

3   :
1.   —
                                      "   ,   ".
         ,   ,
                  .   ,
               ,   .

2.   —   ,
         "
"   .
                            ,   ,   "   "   .
         ,   ,   ,
                        .

3.   —   ,
                                                    .

5.6

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.   ANSI SQL92,

.

(a-z, A-Z),   (_).

.

ANSI SQL   .   : NUMBER, DATE, TIME, STRING,

SELECT, SUM, MIN, MAX, _____ .

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.   ,

,   ,   .

,   :

1.   .   "   "
(.1).   ,   ,
(.2).
"OK".   ,   ,

.

.1

.2

2.

. DEFAULT

,   .

NULL   ,

NULL.

5.7   ODBC

- ·   ,   .

- ·   Microsoft Excel,   ,
.   Microsoft Excel   "!",
"$".

- ·   Microsoft Excel,   <   _   >
Microsoft Excel 3.0   4.0.   Microsoft Excel,   <   _   >
Microsoft Excel 5.0, 7.0,   97.

- ·   dBASE, ASCII   127
.

- ·   Microsoft Access,   64
.

- ·   dBASE, Microsoft Excel 3.0   4.0, Paradox,   Text,
MS-DOS CON, AUX, LPT1,   LPT2   .

- ·   (,
).   ,   ,
,   (`).

- ·   Microsoft Access   Microsoft Excel,
64   ,   .
Paradox,   - 25   .   Text,
- 64   ,   .

- ·   dBASE, ASCII   127
.

- ·   Microsoft Excel,   ,
.   ,   "!"
(`).   "!"   "$",   "!"
ODBC,   .
Microsoft Excel ((|))   ,
.
,   , "Col1"   .

- ·   (|)   ,
.

- ·   Text,   ,   ,
.   ,   F1,
- F2,   . .

, "

"

.

- , .

, 64

, .

: ` | # * ? [ ] . ! $.

- , "

" , ,

.

5.8

-A
    ADD
    ALL
    Alphanumeric
    ALTER
    AND
    ANY
    Application
    AS
    ASC
    Assistant
    AUTOINCREMENT
    Avg
-B
    BETWEEN
    BINARY
    BIT
    BOOLEAN
    BY
    BYTE
-C
    CHAR, CHARACTER
    COLUMN
    CompactDatabase
    CONSTRAINT
    Container
    Count
    COUNTER
    CREATE
    CreateDatabase
    CreateField
    CreateGroup
    CreateIndex
    CreateObject
    CreateProperty
    CreateRelation
    CreateTableDef

```
    Xor
-Y
    Year
    YES
    YESNO
```

6　　　　　　?

6.1

"　　　　　　" -　　　　　　　,
　　　　　　.　　　　　　　　　　　　"Plugins"
　　　　.　　　　　　,
　　　.　　　　　　,
　　　.

(　　　) –　　　　　　.
:　　　　　,　　　,
　.

%s [%s] –
,　　　.　　　,
　.

(%s) –
　.　　　　,
　　　,
　.
　.

%s. (%s) –　　　,
　.
　.

%s. (%s) –　　　,
　.　　,
(　　,　　　　).

,　　　support@aggsoft.ru.
　.

:　　　　,　　"%s"
.