

Configure MS-ACCESS and Import MS-ACCESS data into BlueSky Statistics

Requirements:

BlueSky Statistics	Uses R	Requires DSN (ODBC drivers)
64-bit	64-bit	64-bit
32-bit	32-bit	32-bit

Table: 1

Example : BlueSky Statistics 64-bit application will use R 64-bit. And R 64-bit will only be able to use 64-bit MS-ACCESS DSN(Data Source Name).

Step 1. Determine whether you need to install 32/64 bit MS-Access Database Engine:

You Have	BlueSky Statistics	You Need	Install This
MS-ACCESS (32-bit)	64-bit	You need 64-bit Access Drivers to create <u>64-bit ODBC Data Source Name</u> (in step 2 of “Creating Data Source Name (DSN) in Windows” section below).	AccessDatabaseEngine_x64.exe
	32-bit	You should already have drivers for 32-bit to create <u>32-bit ODBC Data Source Name</u> (go to step 2)	Not applicable
MS-ACCESS (64-bit)	32-bit	You need 32-bit Access Drivers to create <u>32 bit ODBC Data Source Name</u> (in step 2 of “Creating Data Source Name (DSN) in Windows” section below).	AccessDatabaseEngine.exe
	64-bit	You should already have drivers for 64-bit to create <u>64-bit ODBC Data Source Name</u> (go to step 2)	Not applicable

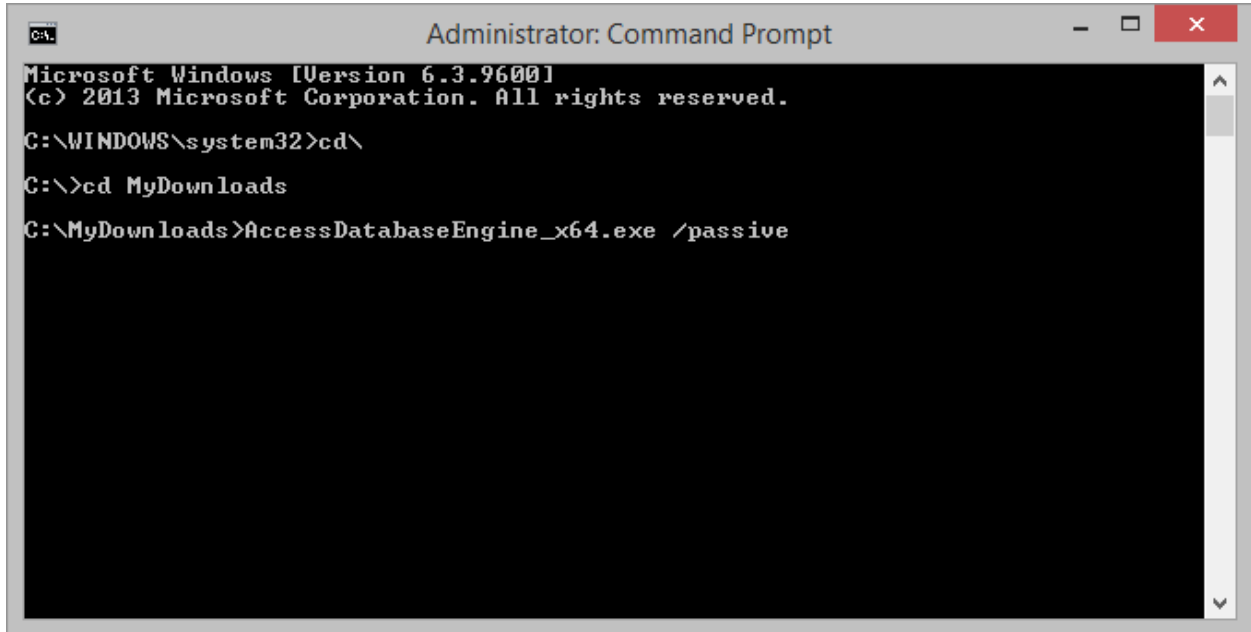
Table: 2

Visit following link and download “Microsoft Access Database Engine 2010 Redistributable”. It has both 32-bit and 64-bit drivers. Check the table above and see which one you require.

<http://www.microsoft.com/downloads/en/details.aspx?familyid=C06B8369-60DD-4B64-A44B-84B371EDE16D&displaylang=en>.

Suppose you need to install AccessDatabaseEngine_x64.exe: Open a Command prompt (in a directory location where you have your downloaded files) and type the following command:

AccessDatabaseEngine_x64.exe /passive

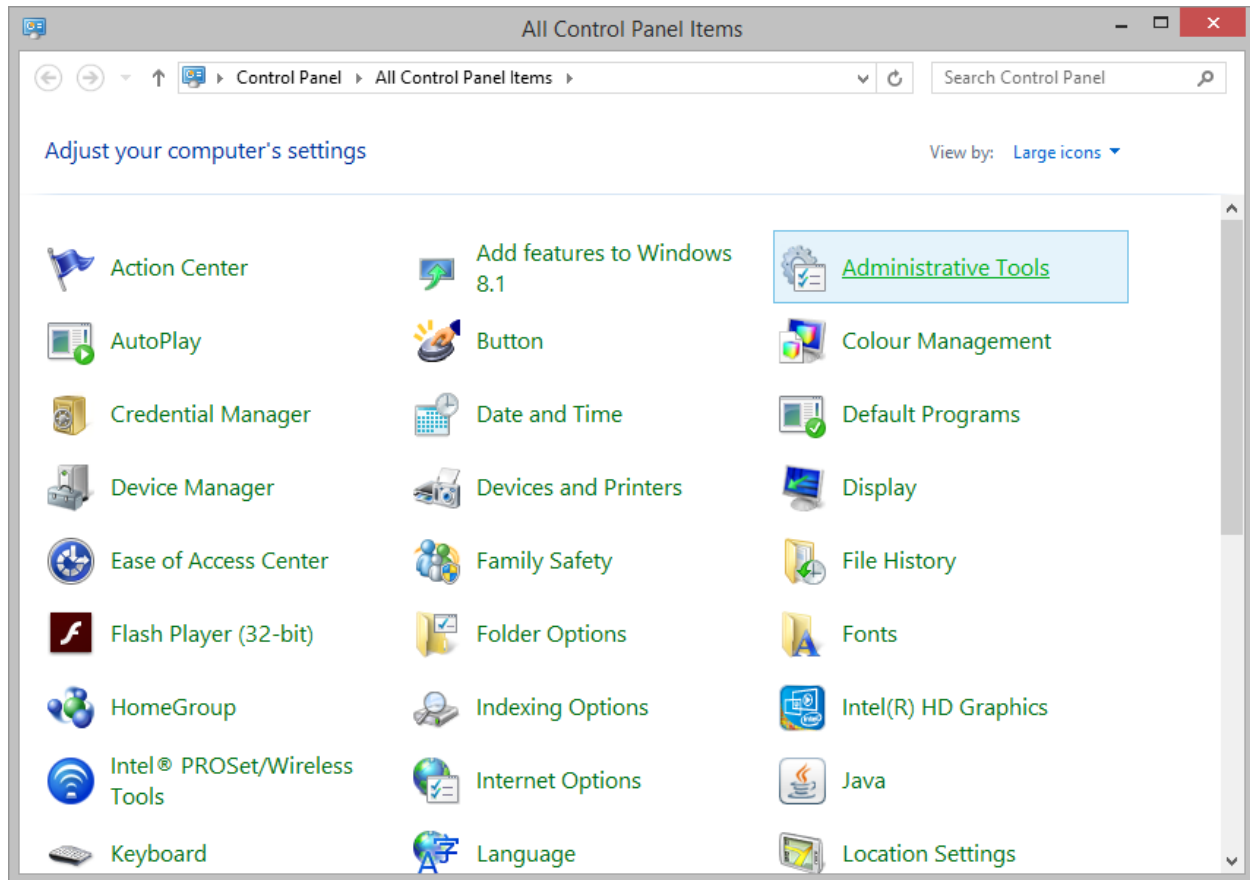
A screenshot of a Windows Command Prompt window titled "Administrator: Command Prompt". The window has a standard Windows title bar with minimize, maximize, and close buttons. The command prompt shows the following text: "Microsoft Windows [Version 6.3.9600] (c) 2013 Microsoft Corporation. All rights reserved. C:\WINDOWS\system32>cd\ C:\>cd MyDownloads C:\MyDownloads>AccessDatabaseEngine_x64.exe /passive". The text is displayed in a monospaced font on a black background. A vertical scrollbar is visible on the right side of the command prompt area.

```
Administrator: Command Prompt
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.
C:\WINDOWS\system32>cd\
C:\>cd MyDownloads
C:\MyDownloads>AccessDatabaseEngine_x64.exe /passive
```

Installing by double clicking that file may result in an error. So it is better use Command prompt with /passive option to avoid install errors.

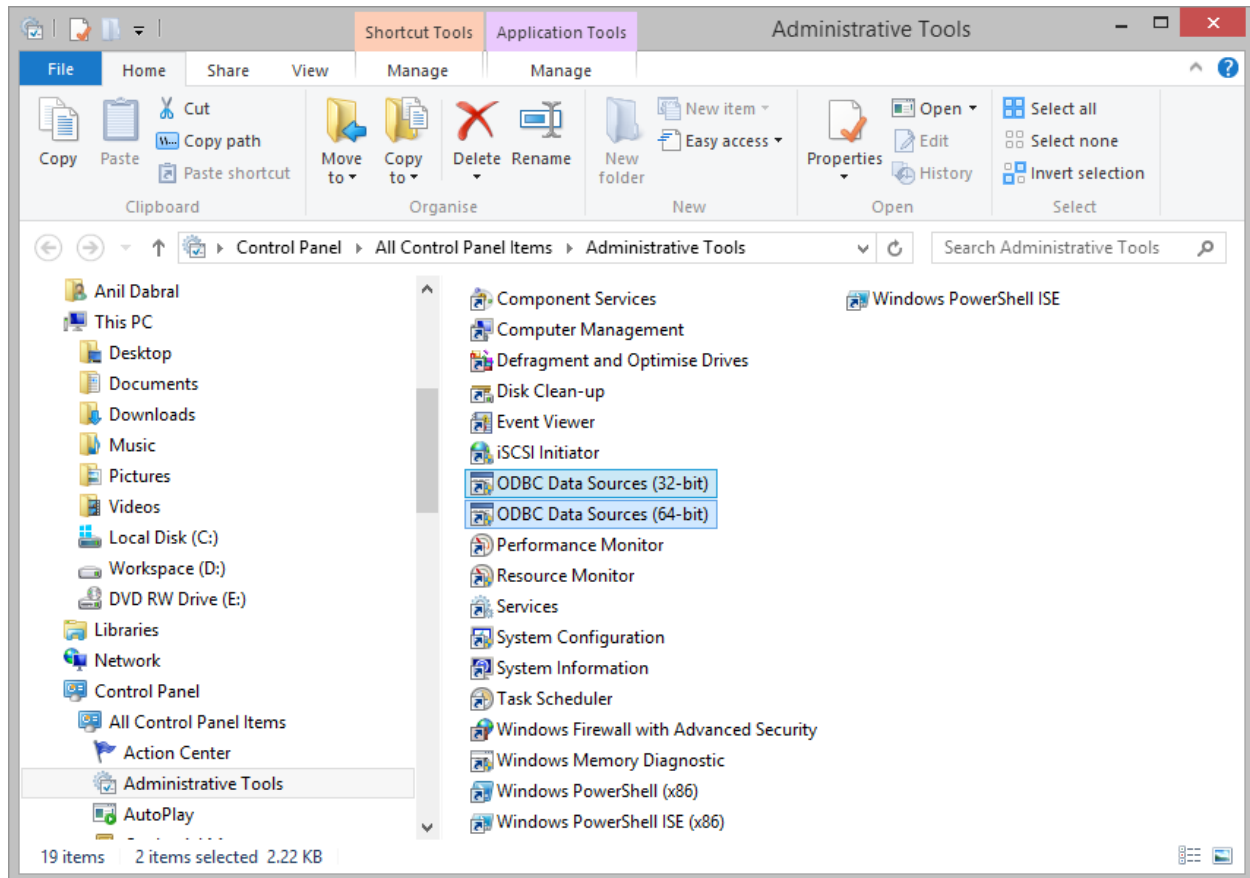
Step 2. Creating Data Source Name (DSN) in Windows:

1. Open "Control Panel" in Windows. Click open "Administrative Tools"

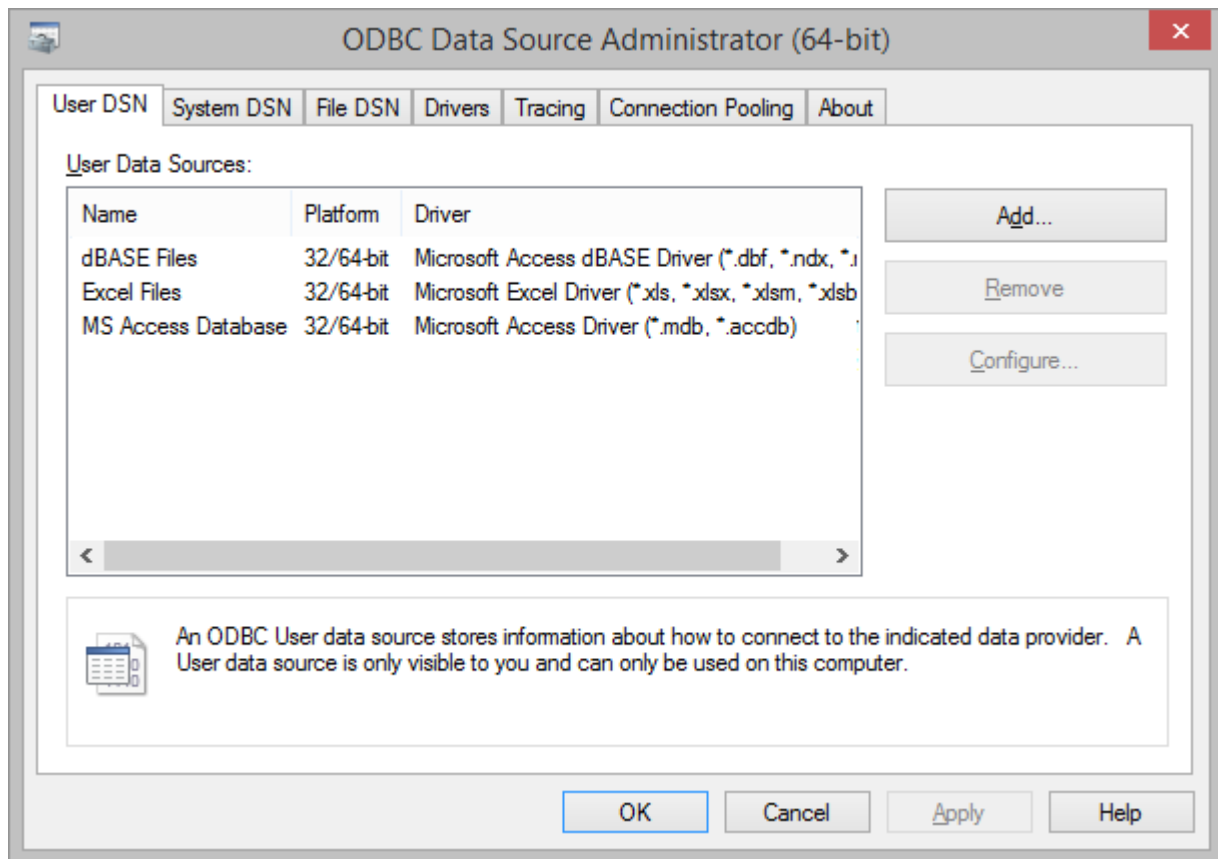


2. In “Administrative Tools” window you should see “ODBC Data Source (32-bit)” and “ODBC Data Source (64-bit)”. You can create 32-bit Data Source Name using “ODBC Data Source (32-bit)” and 64-bit DSN using “ODBC Data Source (64-bit)”. Please refer to table 2, to determine whether you need 32 or 64-bit ODBC Data Source Name.

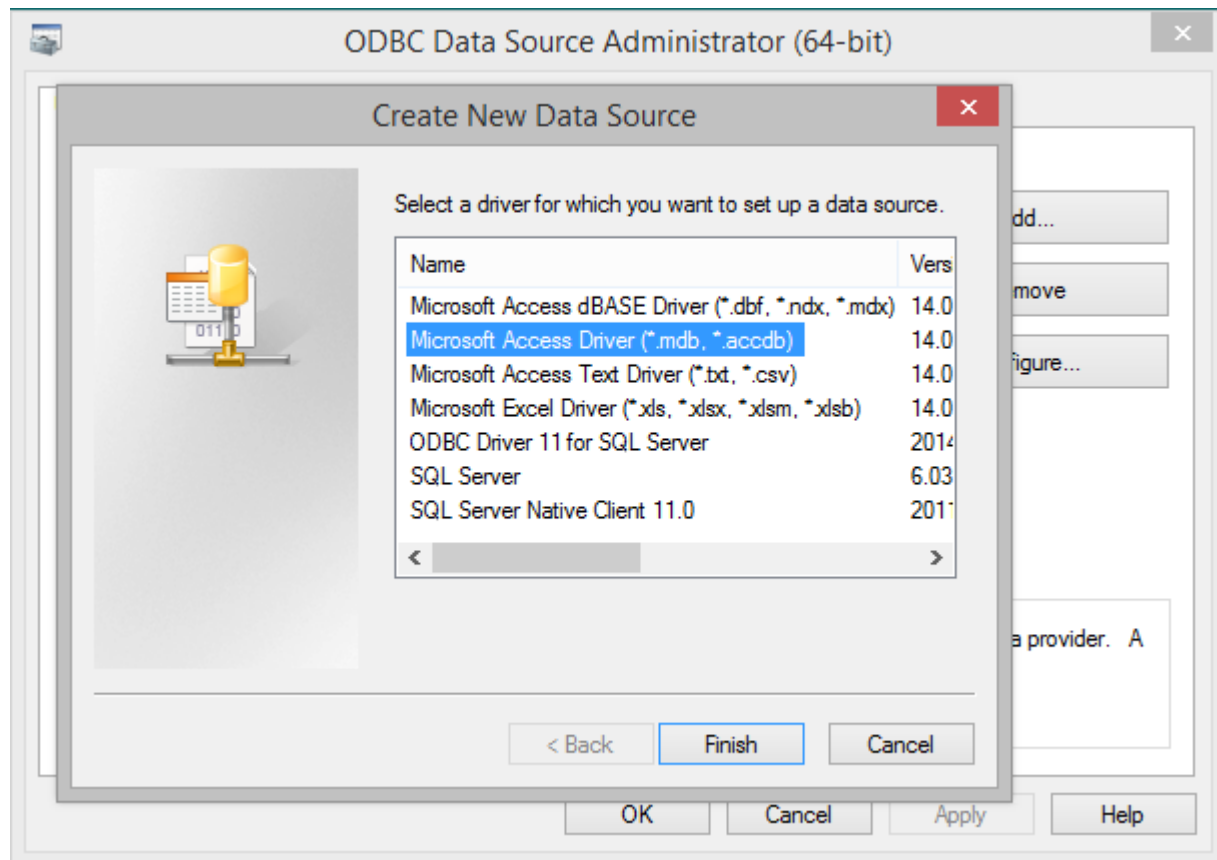
However in our example we will create 64-bit DSN (steps for creating a 32-bit DSN are similar). So we will click open “ODBC Data Source (64-bit)”.



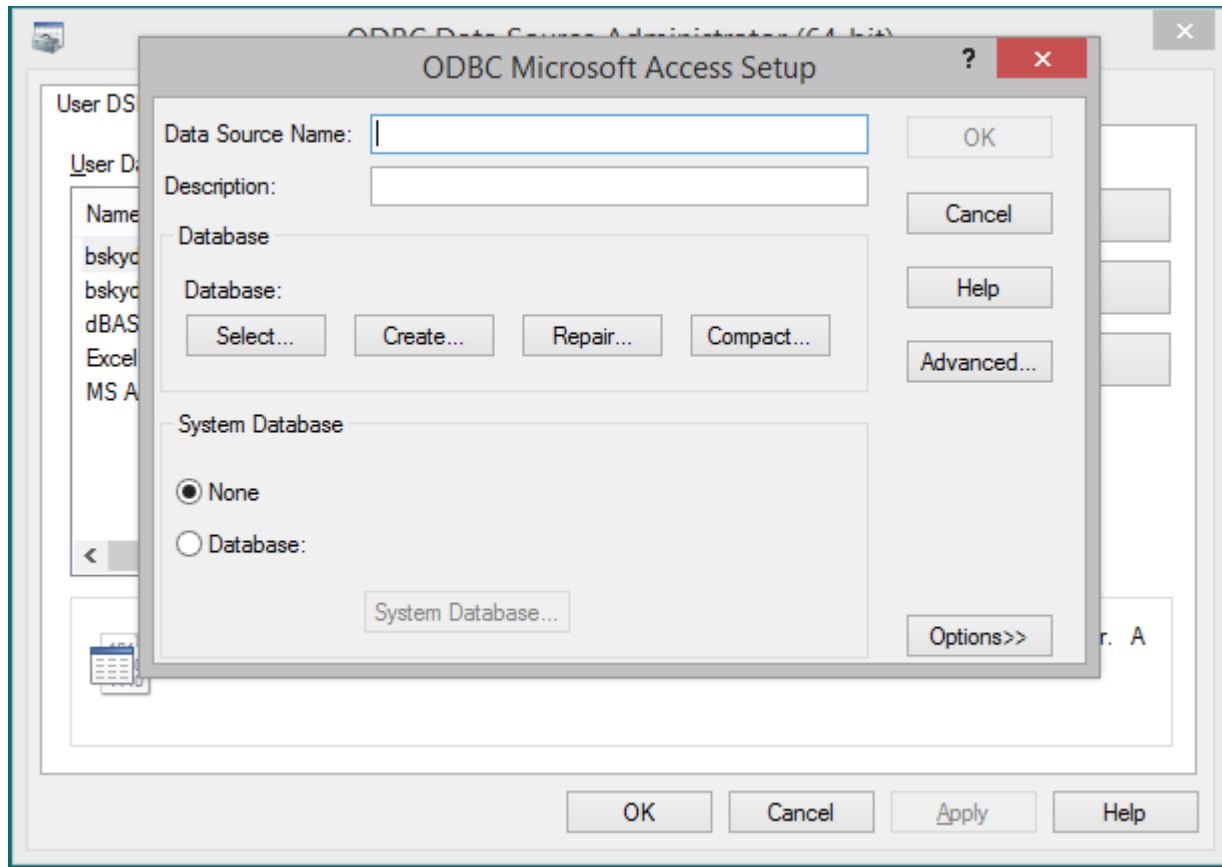
- Following window will appear when you click open “ODBC Data Source (64-bit)”. In this window you need to be on “User DSN” tab. Now click on “Add” button to create a new User DSN (64-bit).



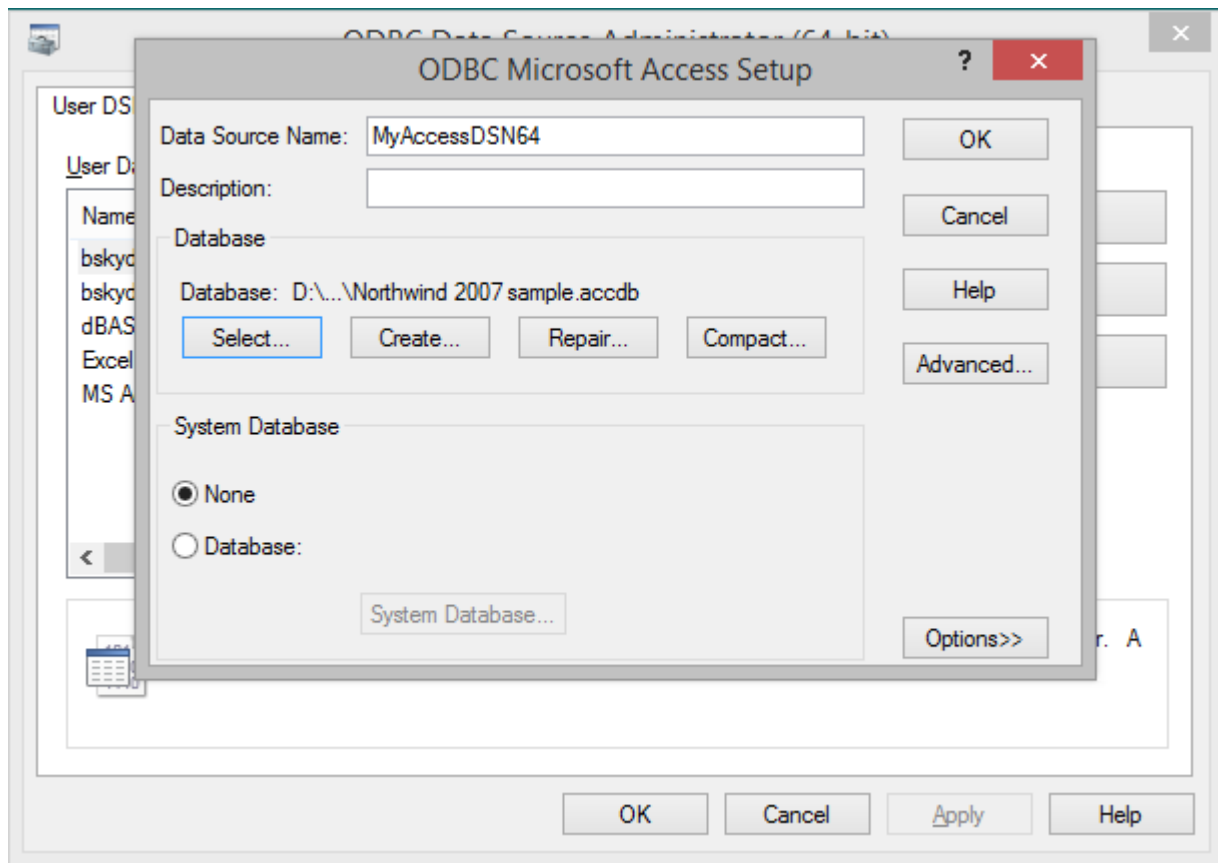
Following window will appear. In this window you need to select “**Microsoft Access Driver (*.mdb, *.accdb)**”. If you do not see this item in your list, that means you do not have Access driver installed for 64-bit DSN. You need to follow the instructions provided in the “**Determine whether you need to install 32/64 bit MS-Access Database Engine**” section above.



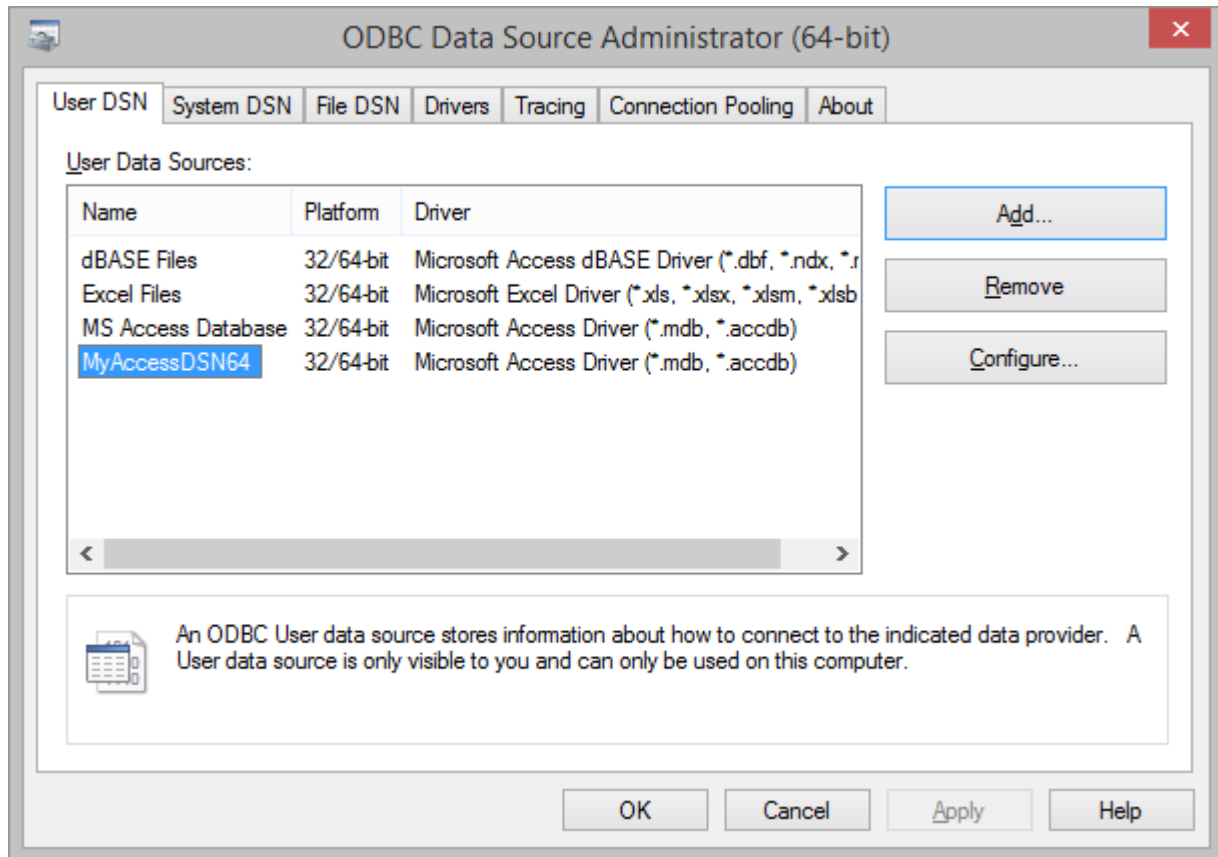
4. After selecting “Microsoft Access Driver (*.mdb, *.accdb)”, click on “Finish” button. You will get following window.



5. In this window you need to provide Data Source Name of your choice. Then click on the “Select” button to locate your Microsoft Access file (*.mdb or *.accdb). If you want to assign a User ID and Password (this is not common), then click on the “Advanced” button. Finally click “OK”.



6. In the “ODBC Data Source Administration (64-bit)” window below, you will see your DSN that you just created. Now you are ready to use your DSN with the BlueSky Statistics application to load the data from your Access database which is referenced by your DSN.



- Now from BlueSky Statistics application go to **File -> Import Data... -> SQL Database** a window will appear as shown below. First select "MS-ACCESS" from the list. Now you need to fill in the name of your DSN (this is the name of the DSN you just created and optionally the user/password. In our example we do not have user id and password so we leave those fields blank. Now click "Connect".

The screenshot shows a window titled "Data Source Selector Window". It contains two main sections. The first section, "Select Data Source:", features a list box with the following options: MSSQL, PostgreSQL, Oracle, MySQL, SQLite, and MS-ACCESS. MS-ACCESS is currently selected. The second section, "Specify Connection Parameters:", contains three text input fields. The first field, labeled "Data Source Name:", contains the text "MyAccessDSN64". The other two fields, labeled "User ID:" and "Password:", are empty. At the bottom of the window are two buttons: "Cancel" and "Connect".

8. If all the fields are correctly filled, clicking “Connect” will pop open following window. In this window first you need to “Select a database” from drop down. Then you can click on “Tables” “Views” checkboxes depending on your choice, what you want to see in the list box below, on the left. Once the Table/Views list box is filled with Table/View names, you can click any one of those to see its column names in the list box, on the right. Finally, in the text box below, you can write your select query or sub query with join etc. and the results of the query will be loaded in the data grid of the BlueSky Statistics application.

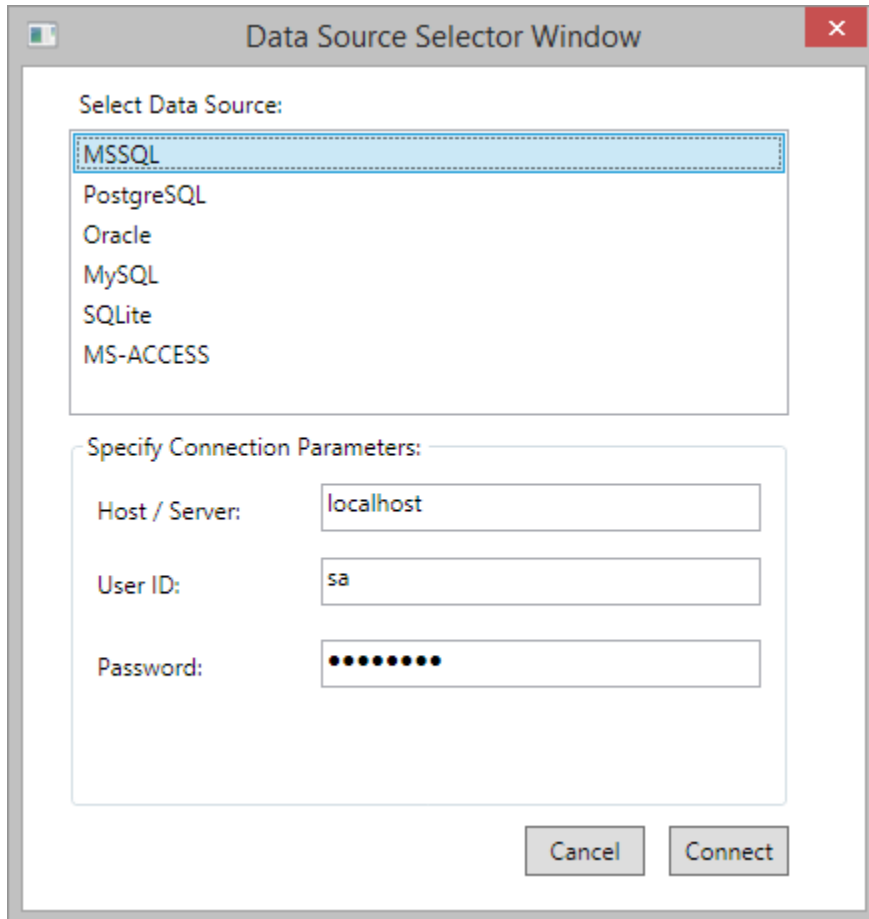
The screenshot shows a window titled "Table and Column(s) Selector Window". At the top, there is a dropdown menu labeled "Select a database:" with "MyAccessDSN64" selected. Below this, there is a text instruction: "Check Tables/Views to see the list of Tables/Views. Click on the table/view name to see its columns on the right pane". To the right of this instruction is another text instruction: "Displays the columns of the selected table." Below the instruction, there are two checkboxes: "Tables/Views:" followed by a checked box for "Tables" and an unchecked box for "Views". Below the checkboxes are two list boxes. The left list box, labeled "Tables/Views:", contains a list of database objects: MSysQueries, MSysRelationships, Customers (highlighted with a blue selection bar and a checkmark), Employee Privileges, Employees, Inventory Transaction Types, Inventory Transactions, Invoices, Order Details, Order Details Status, Orders, and Orders Status. The right list box, labeled "Columns:", contains a list of column names: ID, Company, Last Name, First Name, E-mail Address, Job Title, Business Phone, Home Phone, Mobile Phone, Fax Number, and Address. Below the list boxes, there is a text instruction: "Write your 'SELECT' query in the textbox below. You can enter complex queries, sub-queries, joins as supported by your SQL server." Below this instruction are two examples: "1. MS-SQL Example: SELECT * FROM Owner.TABLE-NAME" and "2. MySQL / Postgres / MS-ACCESS Example: SELECT * FROM TABLE-NAME". Below the examples is a large text input field containing the query "select * from Customers". At the bottom right of the window are two buttons: "Back" and "OK".

9. Click 'OK' to load the result of select query in the BlueSky Statistics grid.

Configure Microsoft-SQL Server (MS-SQL server) and Import MS-SQL data into BlueSky Statistics

If you want to connect to a remote MS-SQL server that is maintained by your admin then you need to get the SQL server name ('host' address), user id and password from the admin.

1. From BlueSky Statistics main window, click **File -> Import Data... -> SQL Database**. Following window will pop open. Select MSSQL from the list by clicking on it. Enter SQL server name, user id and password.



The image shows a 'Data Source Selector Window' with a title bar containing a close button. The window is divided into two main sections. The first section, 'Select Data Source:', contains a list box with the following options: MSSQL, PostgreSQL, Oracle, MySQL, SQLite, and MS-ACCESS. 'MSSQL' is currently selected and highlighted with a blue border. The second section, 'Specify Connection Parameters:', contains three input fields. The first is 'Host / Server:' with the text 'localhost'. The second is 'User ID:' with the text 'sa'. The third is 'Password:' with a masked password represented by ten black dots. At the bottom right of the window are two buttons: 'Cancel' and 'Connect'.

Data Source Selector Window

Select Data Source:

- MSSQL
- PostgreSQL
- Oracle
- MySQL
- SQLite
- MS-ACCESS

Specify Connection Parameters:

Host / Server: localhost

User ID: sa

Password:

Cancel Connect

2. Click "Connect" button and you will see following window. In this window you need to select a database name from the dropdown and then based on choice you can check "Table" and/or "Views" checkbox to see tables and/or views in the list box below, on the left. If you click any table or view name in the left table, you will see its column names in the list box, on the right. Finally, in the text box below, you can write your select query or sub query with join etc. and the results of the query will be loaded in the data grid of the BlueSky Statistics application.

Table and Column(s) Selector Window

Select a database: AdventureWorks2014

Check Tables/Views to see the list of Tables/Views. Click on the table/view name to see its columns on the right pane

Displays the columns of the selected table.

Tables/Views: ☒ Tables ☐ Views

Columns:

Production.ProductSubcategory
Person.BusinessEntityAddress
Purchasing.ProductVendor
Person.BusinessEntityContact
Production.UnitMeasure
Purchasing.Vendor
Person.ContactType
Sales.CountryRegionCurrency
Person.CountryRegion
Production.WorkOrder
Purchasing.PurchaseOrderDetail

BusinessEntityID
AccountNumber
Name
CreditRating
PreferredVendorStatus
ActiveFlag
PurchasingWebServiceURL
ModifiedDate

Write your 'SELECT' query in the textbox below. You can enter complex queries, sub-queries, joins as supported by your SQL server.

1. MS-SQL Example: SELECT * FROM Owner.TABLE-NAME

2. MySQL / Postgres / MS-ACCESS Example: SELECT * FROM TABLE-NAME

select * from Purchasing.Vendor

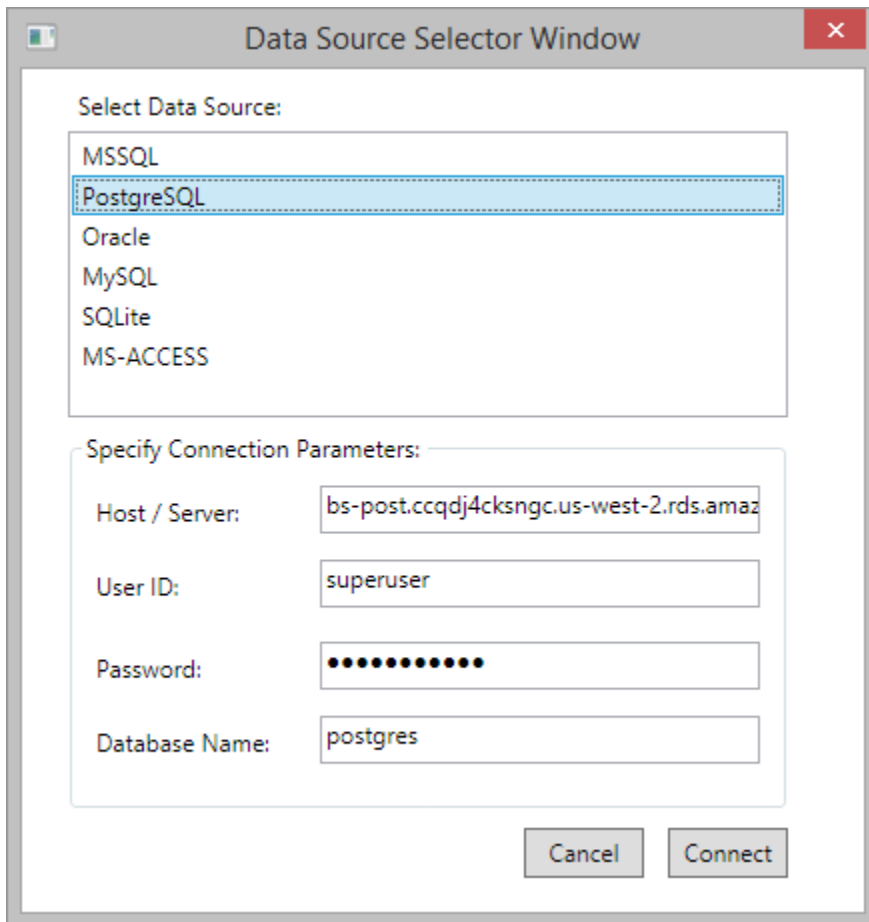
Back OK

3. Click 'OK' to load the result of select query in the BlueSky Statistics grid.

Configure PostgreSQL and Import PostgreSQL data into BlueSky Statistics

To get PostgreSQL “host” address, user id, password and database name, you need to contact your PostgreSQL server admin.

1. Steps for connecting to PostgreSQL are similar to MS-SQL. Except you need to specify database name in ‘Database Name’ field.



The screenshot shows a window titled "Data Source Selector Window" with a close button in the top right corner. Inside the window, there is a section labeled "Select Data Source:" containing a list box with the following options: MSSQL, PostgreSQL (which is highlighted with a blue selection bar), Oracle, MySQL, SQLite, and MS-ACCESS. Below this list is a section labeled "Specify Connection Parameters:" which contains four text input fields: "Host / Server:" with the value "bs-post.ccqdj4cksngc.us-west-2.rds.amaz", "User ID:" with the value "superuser", "Password:" with a masked password represented by ten dots, and "Database Name:" with the value "postgres". At the bottom right of the window are two buttons: "Cancel" and "Connect".

- Click "Connect" button and you will see following window. In this window you need to select a database name from the dropdown and then based on choice you can check "Table" and/or "Views" checkbox to see tables and/or views in the list box below, on the left. If you click any table or view name in the left table you will see its column names in the list box, on the right. Finally, in the text box below, you can write your select query or sub query with join etc. and the results of the query will be loaded in the data grid of the BlueSky Statistics application.

Table and Column(s) Selector Window

Select a database: postgres

Check Tables/Views to see the list of Tables/Views. Click on the table/view name to see its columns on the right pane

Displays the columns of the selected table.

Tables/Views: ☒ Tables ☐ Views

Columns:

test
products

product_no
name
price

Write your 'SELECT' query in the textbox below. You can enter complex queries, sub-queries, joins as supported by your SQL server.

1. MS-SQL Example: SELECT * FROM Owner.TABLE-NAME

2. MySQL / Postgres / MS-ACCESS Example: SELECT * FROM TABLE-NAME

select * from products

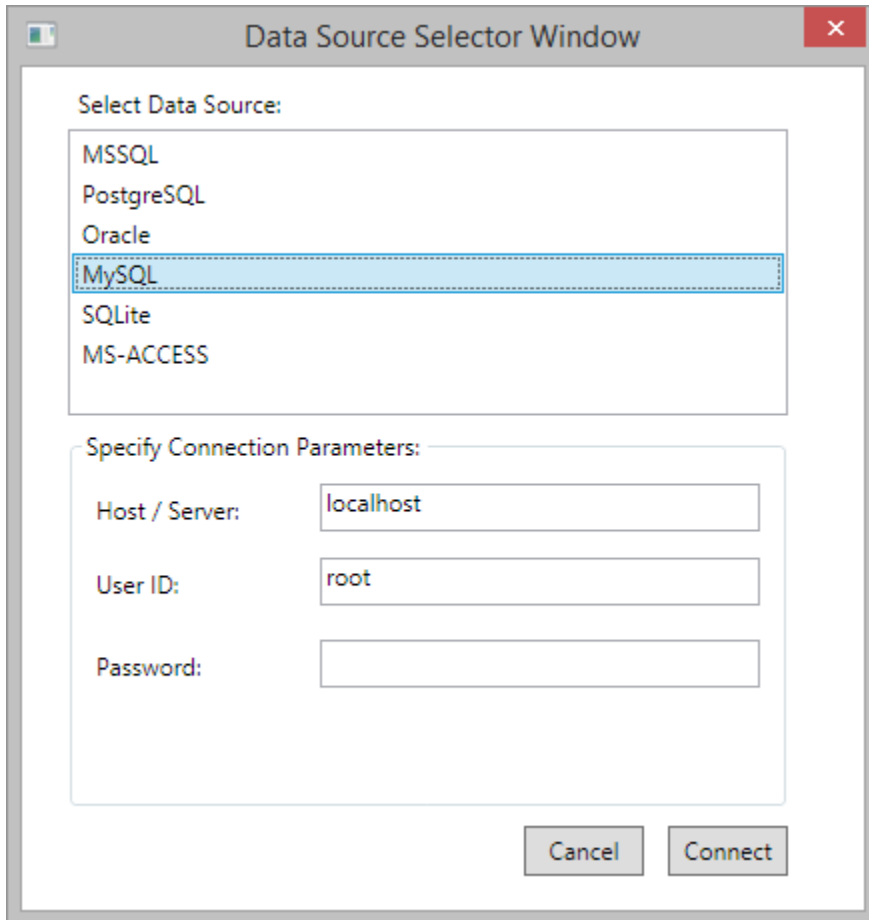
Back OK

- Click 'OK' to load the result of select query in the BlueSky Statistics grid.

Configure MySQL and Import MySQL data into BlueSky Statistics

Contact MySQL server admin to get “host” address, user id and password of MySQL server.

1. Connection step are similar to MS-SQL connection steps. Enter MySQL server name, user id and password.



The image shows a 'Data Source Selector Window' with a title bar containing a standard window icon, the text 'Data Source Selector Window', and a red close button. The window is divided into two main sections. The top section, titled 'Select Data Source:', contains a list box with the following options: MSSQL, PostgreSQL, Oracle, MySQL (which is highlighted with a blue dashed border), SQLite, and MS-ACCESS. The bottom section, titled 'Specify Connection Parameters:', contains three labeled text input fields: 'Host / Server:' with the value 'localhost', 'User ID:' with the value 'root', and 'Password:' which is currently empty. At the bottom right of the window, there are two buttons: 'Cancel' and 'Connect'.

Select Data Source:

- MSSQL
- PostgreSQL
- Oracle
- MySQL
- SQLite
- MS-ACCESS

Specify Connection Parameters:

Host / Server: localhost

User ID: root

Password:

Cancel Connect

- Click "Connect" button and you will see following window. In this window you need to select a database name from the dropdown and then based on choice you can check "Table" and/or "Views" checkbox to see tables and/or views in the list box below, on the left. If you click any table or view name in the left table you will see its column names in the list box, on the right. Finally, in the text box below, you can write your select query or sub query with join etc. and the results of the query will be loaded in the data grid of the BlueSky Statistics application.

Table and Column(s) Selector Window

Select a database: mysql

Check Tables/Views to see the list of Tables/Views. Click on the table/view name to see its columns on the right pane

Displays the columns of the selected table.

Tables/Views: ☒ Tables ☐ Views

Columns:

slave_master_info
slave_relay_log_info
slave_worker_info
slow_log
tables_priv
time_zone
time_zone_leap_second
time_zone_name
time_zone_transition
time_zone_transition_type
user

Host
User
Password
Select_priv
Insert_priv
Update_priv
Delete_priv
Create_priv
Drop_priv
Reload_priv
Shutdown_priv

Write your 'SELECT' query in the textbox below. You can enter complex queries, sub-queries, joins as supported by your SQL server.

1. MS-SQL Example: `SELECT * FROM Owner.TABLE-NAME`

2. MySQL / Postgres / MS-ACCESS Example: `SELECT * FROM TABLE-NAME`

`select * from user`

Back OK

- Click 'OK' to load the result of select query in the BlueSky Statistics grid.