


# DBA xPress Data Space Analyzer

Last Modified on 01 June 2021

**Update:** SolarWinds DBA xPress is now a **FREE** tool. In versions 2021.8 and later it is a standalone product and no longer requires a license.

**Download:** See the [DBA xPress product page](#) to learn more.

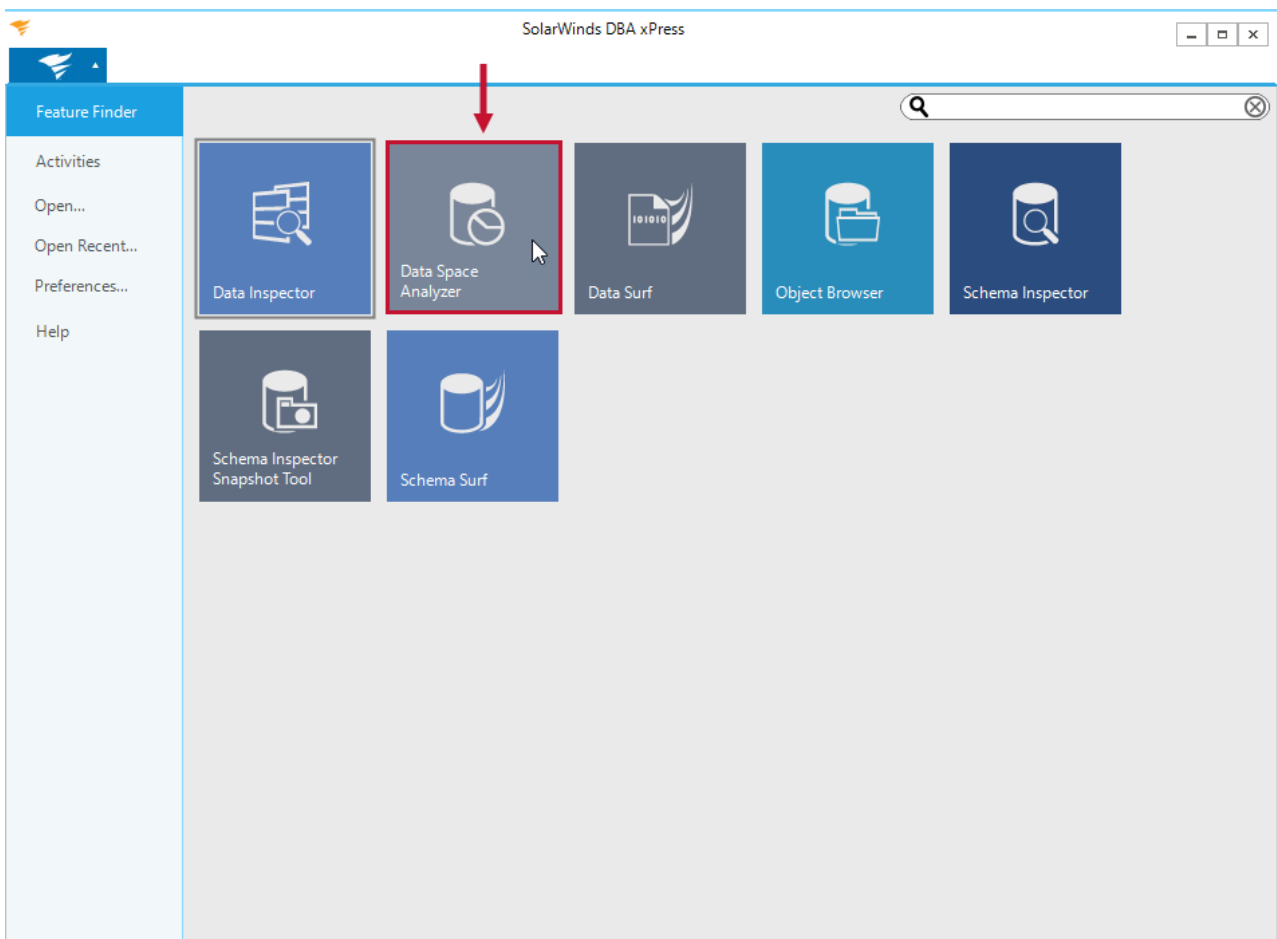
## Overview

Icon	Description
	<p><b>Data Space Analyzer</b> assists DBAs with managing their SQL Server instances by displaying graphs that provide information about their disk space usage.</p> <p><b>Feature Highlights</b></p> <ul style="list-style-type: none"><li>• Displays your database disk usage data</li></ul>

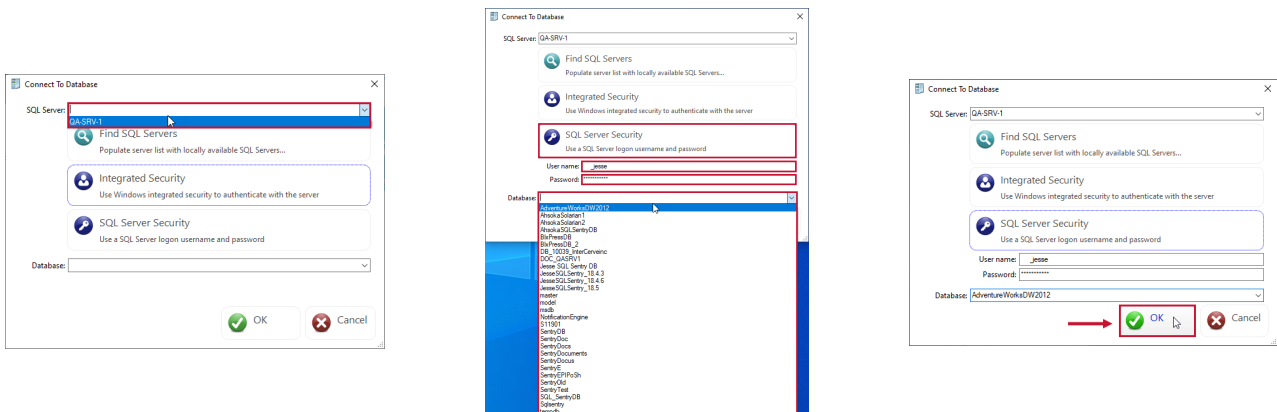
## Using Data Space Analyzer

Use **Data Space Analyzer** for your selected instance by completing the following steps:

1. Select **Data Space Analyzer** on the DBA xPress Feature Finder to open the **Choose Server or Database** window.



2. Enter a SQL Server connection or select a previous connection from the drop down list. Enter your connection credentials, then select a database for the analysis. Select **OK** to display a graph of your database.

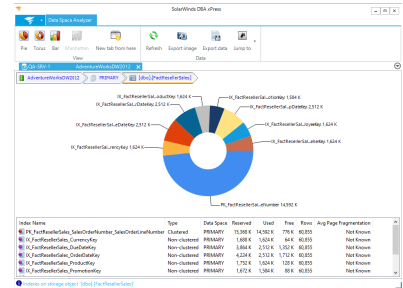
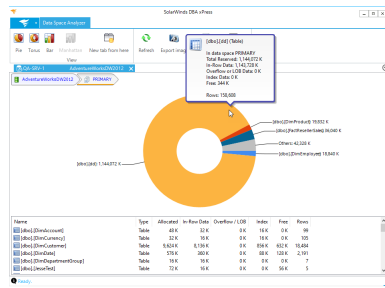
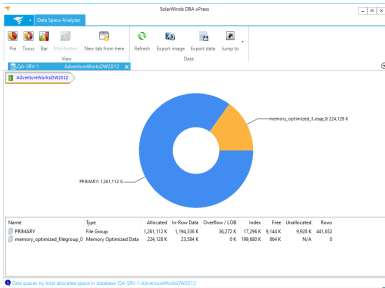


**Note:** Data Space Analyzer automatically starts a search for local servers when it starts. Select **Find Local Servers** if you know a new server has appeared since the application started, or the dialog opens before the initial search completes.

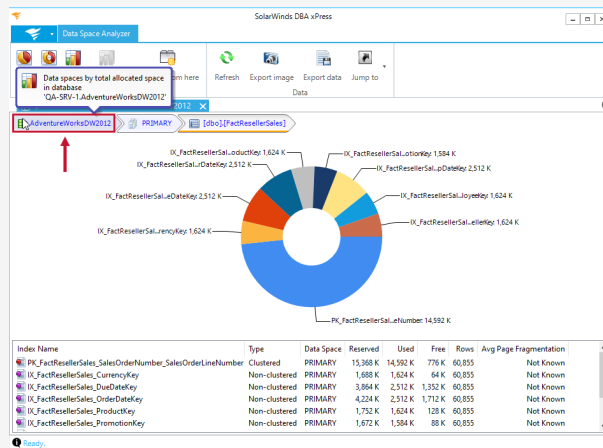
**Note:** Selecting **SQL Server Security** gives you the option to enter a username and password. Select

a server and select **OK** to profile space usage on the server as a whole, select a database to profile space usage on that single database.

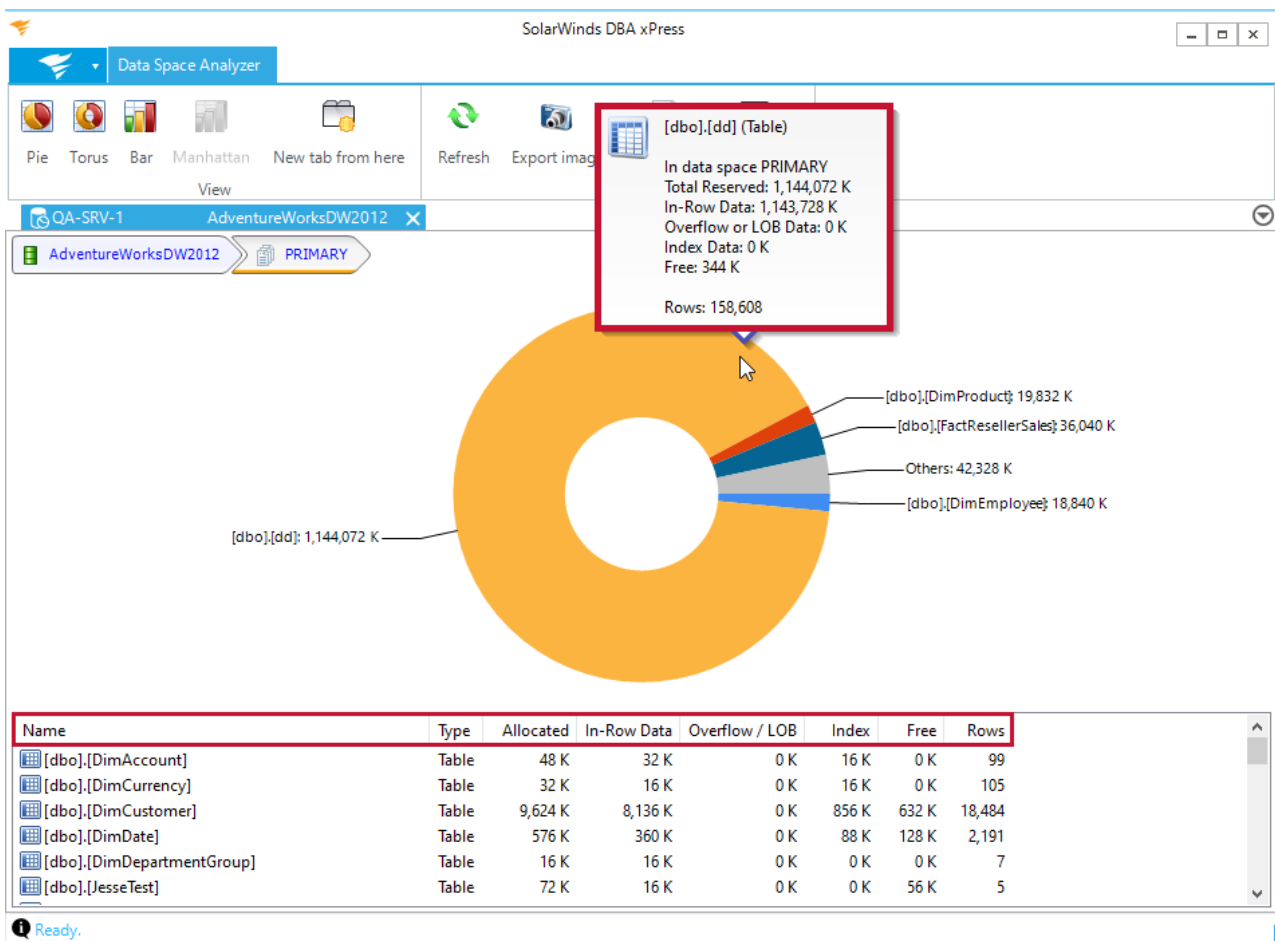
3. Select the graph to display more details about the file, and display a break down of the project.



**Note:** Return to a previous graph by selecting the graph name on the top left of the display.



## Data Space Analyzer Data



## Table of Characteristics

The Data Space Analyzer reports display a number of characteristics in the list of objects at the bottom of the page. You can also hover over an item in the chart. The following is a list of displayed Data Space Analyzer characteristics:

Characteristic	Description
File Size	The total size of files that make up a file group in a database.
Allocated Space	The space within a database that is reserved for usage by a table or an index.
Unallocated Space	The space within a database file that has not been reserved.
Reserved	The total amount of space that has been reserved for a table or an index.
Used	The total amount of space which is being actively used by a table or an index.
In-Row Data	The space which is being used for the main data storage of table rows.
Overflow/LOB Data	The space which is used for LOB types (text, ntext & image) or for overflow data associated with overflow types (varchar(MAX), nvarchar(MAX), varbinary(MAX) & xml).

Index Data Characteristic	Description
Free	The space that has been reserved for table usage but is not currently in use.
Rows	The total row count associated with an entity. Note that the total row count for SQL Server 2000 servers is estimated.
Average Page Fragmentation	The amount of fragmentation that an index or a table has. Note that This information is not available on SQL Server 2000 servers, or when using the faster data loading mode on SQL Server 2005+ servers.

## Tables of Charts

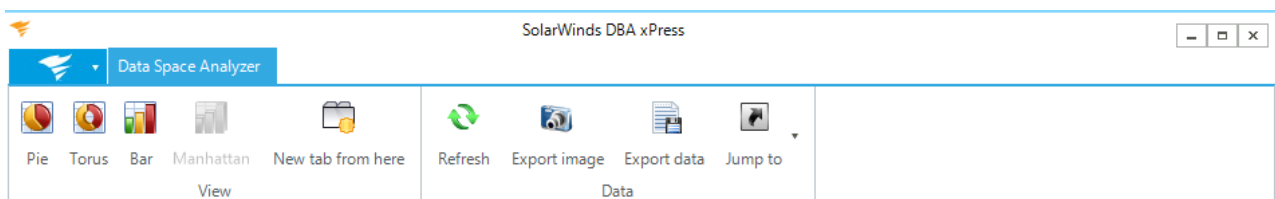
The following is a list of the charts that are available in Data Space Analyzer:

Chart Name	Chart Destination	List Destination
Databases by total allocated space	Data spaces by total allocated space	Data spaces by total allocated space
Databases by total file group size	Data spaces by total file size	Data spaces by total file size
Databases by total page type size	Data spaces by selected page type total size	Data spaces by total page type size
Databases by row count	Data spaces by row count	Data spaces by row count
Databases by total unallocated space	Data spaces by total unallocated space	Data spaces by total unallocated space
Page type summary	Data spaces by selected page type total size	Data spaces by selected page type total size
Data spaces by selected page type total size	Storage objects by total allocated space	Storage objects by total allocated space

<b>Chart Name</b>	<b>Chart Destination</b>	<b>List Destination</b>
Data spaces by total allocated space	Storage objects by total allocated space	Storage objects by total allocated space
Data spaces by total file size	Storage objects by total allocated space	Storage objects by total allocated space
Data spaces by total page type size	Storage objects by selected page type total size	Storage objects by total allocated space
Data spaces by row count	Storage objects by row count	Storage objects by row count
Data spaces by total unallocated space	Storage objects by total allocated space	Storage objects by total allocated space
Partitions for index by row count	N/A	N/A
Partitions for index	N/A	N/A
Indexes on storage object by row count	Partitions for index by row count	Partitions for index by row count
Indexes on storage object	Partitions for index	Partitions for index
Page type summary for storage object	Indexes on storage object	Indexes on storage object
Storage objects by selected page type total size	Page type summary for storage object	Page type summary for storage object

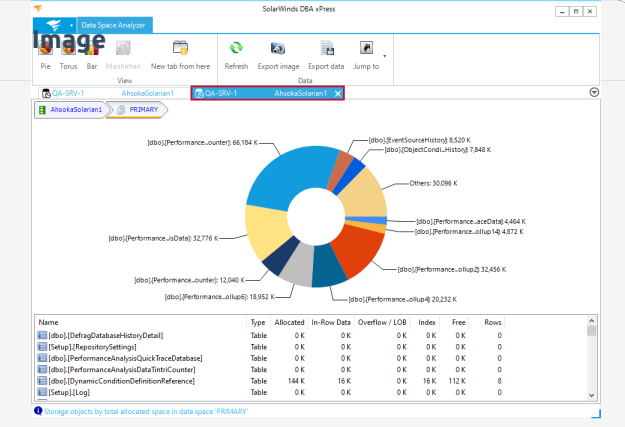
Chart Name	Chart Destination	List Destination
Storage objects by total allocated space	Indexes on storage object	Indexes on storage object
Storage objects by row count	Indexes on storage object by row count	Indexes on storage object by row count

## Toolbar Options

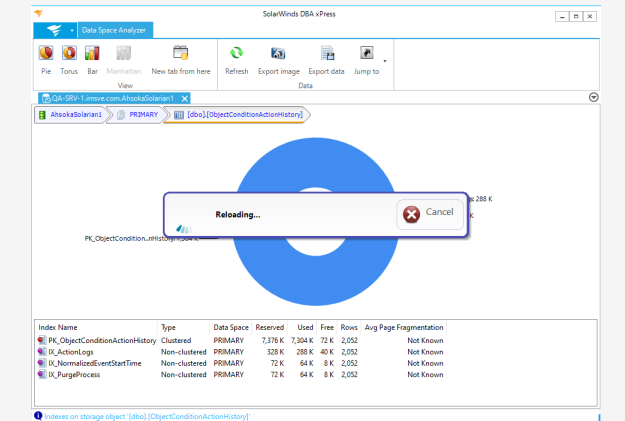
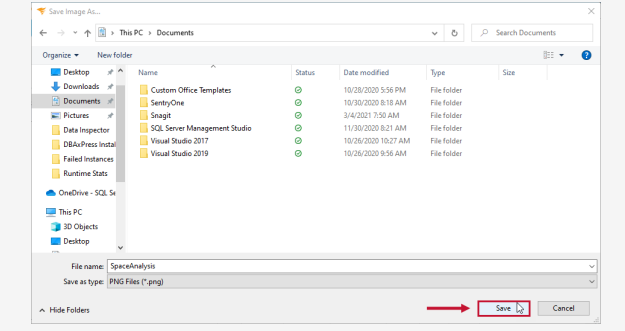
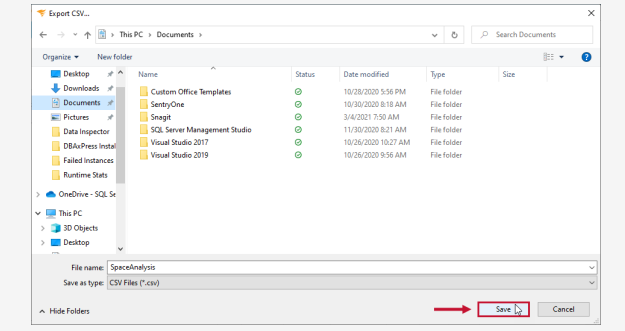


## View Options

Option	Description	Image
<b>Pie</b>	Displays the selected database graph as a pie chart.	A pie chart representing the size of various database indexes. The largest slice is 'PK_FactResellerSalesOrderNumber' at 14,592 K. Other significant slices include 'IX_FactResellerSalesOrderNumber' at 2,512 K and 'IX_FactResellerSalesOrderNumber' at 1,624 K.
<b>Torus</b>	Displays the selected database graph as a torus chart.	A torus (donut) chart showing the same data as the pie chart. The largest slice is 'PK_FactResellerSalesOrderNumber' at 14,592 K.
<b>Bar</b>	Displays the selected database graph as a bar chart.	A horizontal bar chart displaying the size of database indexes. The x-axis ranges from 0 to 16,000 K. The longest bar is 'PK_FactResellerSalesOrderNumber_SalesOrderNumber' at 14,592 K.
<b>Manhattan</b>	Displays the selected database graph as a Manhattan chart.	A Manhattan chart showing the size of database indexes. The x-axis ranges from 0 to 100,000 K. The longest bar is 'PRIMARY (Index)' at 32,064 K.

Option	Description	Image
<p><b>New tab from here</b></p>	<p>Opens a new duplicate tab of the currently selected graph.</p>	

## Data Options

Option	Description	Image
<p><b>Refresh</b></p>	<p>Reloads the data for the selected graph.</p>	
<p><b>Export Image</b></p>	<p>Save the selected graph as one of the following image files:</p> <ul style="list-style-type: none"> <li>.png</li> <li>.jpg</li> <li>.bmp</li> </ul>	
<p><b>Export data</b></p>	<p>Save the selected graph as a .csv file.</p>	
	<p>Reorganizes the data to focus</p>	



## Option

## Jump to

## on one of the following Description Sections.

- Data Spaces by Total File Size
- Data Space by Total Allocated Space
- Data Spaces by Total Unallocated Space
- Data Spaces by Total Page Type Size
- Data Spaces by Total Row Count
- Page Type Summary

