

# How to create a pivot table in Microsoft Excel

This document explains how to start the report from Brilliant, how to import into excel and how to create pivot table.

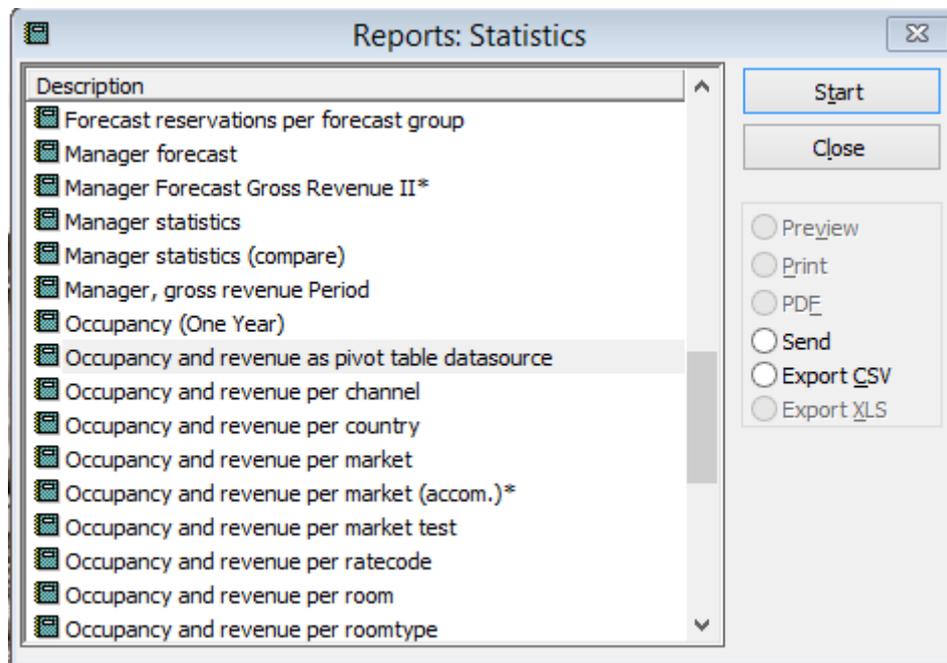
## Occupancy and revenue as pivot table data source

This report creates a **PMPRO\_PIVOT.CSV** file which contains occupancy and revenue details of each reservation in a given time frame. This file can be used as a data source to create a [pivot table](#) in Microsoft Excel (2007 or newer recommended), Microsoft PowerPivot or another spreadsheet program such as Calc from OpenOffice.org.

A pivot table is a fast and powerful way to analyze data and answer questions you have about it. Create a pivot table based on the PMPRO\_PIVOT.CSV data source file to analyze your reservation data from any angle you desire. For example:

- Revenue (gross or net, total or per main group) by date, month, quarter, year or day of the week.
- Revenue (gross or net, total or per main group) by market, source, channel or rate code.
- Revenue (gross or net, total or per main group) by country, state/province, city or zip code.
- The same as above but for arrivals, departures, room night, persons, reservation lead time.
- A combination of all of the above.
- Etc.

### 1. How to get here?



- Choose **Occupancy and revenue as pivot table data source** from the Reports » Statistics menu.
- Click the **Start** button, enter a date range and click the **OK** button.
- The reservation data will now be exported. This may take a long time, depending on the date range you have specified and the amount of data that must be collected and exported.
- The data will be saved in the `..\PMS\Output\PMPRO_PIVOT.CSV` data source file.

## 2. Tips, Tricks & Pitfalls

- The export can be created for past and future dates. However, in order to include revenue data for the future you need to run the [forecast interface](#) to update the forecasted revenue data.
- The export contains all room, conference room and dummy room reservations. In order to use the export for e.g. bed room statistics, you will need to separate the data from the different reservation types. This can be done by using the 'Record Class' field as a report filter or as a row label.
- For each reservation the export file contains a **record** for every night of the stay PLUS a record for the departure date: a reservation of 1 night will have 2 records, a reservation of 2 nights will have 3 records, etc. This means you should not summarize the rooms, adults and children fields in occupancy statistics.

## 3. Available options

- **Date:** Enter the date range for which you would like to export data. This is the "in house" or "revenue" date and unrelated to arrivals or departures. If you enter 1 January to 31 January, the export also contains records from arrivals in December who leave in January and records from arrivals in January who leave in February.
- **Update forecast:** Enable the tickbox to update the revenue forecast figures before the export is created. This will update the entire forecast regardless of the entered date range.

## 4. Where can I find the PMPRO\_PIVOT.CSV data source file?

The PMPRO\_PIVOT.CSV data source file is saved in the \OUTPUT subfolder of the folder in which Brilliant PMpro has been installed. The exact location on your network is different from installation to installation. Follow the next steps to find the file.

### 4.1 Using Windows XP

1. Right click on the shortcut you normally use to start Brilliant PMpro and choose **Properties**.
2. Click on the **Find Target** button on the **Shortcut** tab.
3. Windows Explorer now opens in the Brilliant PMpro installation folder.
4. Scroll to the top and open the **Output** folder.

### 4.2 Using Windows Vista or Windows 7

1. Right click on the shortcut you normally use to start Brilliant PMpro and choose **Properties**.
2. Click on the **Open File Location** button on the **Shortcut** tab.
3. Windows Explorer now opens in the Brilliant PMpro installation folder.
4. Scroll to the top and open the **Output** folder.

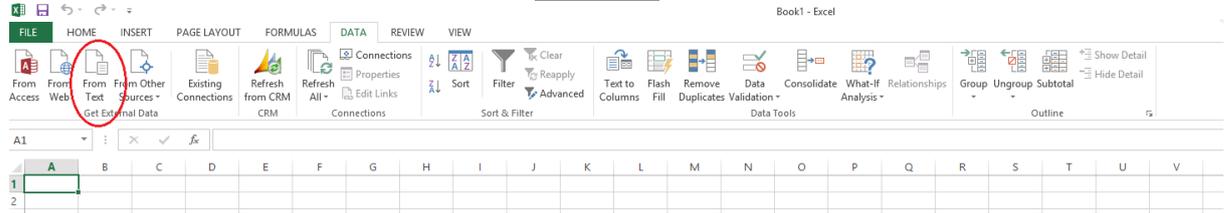


Never delete or rename files or folders that are located in the Brilliant PMpro installation folder. This results in data loss and may cause Brilliant PMpro to stop working.

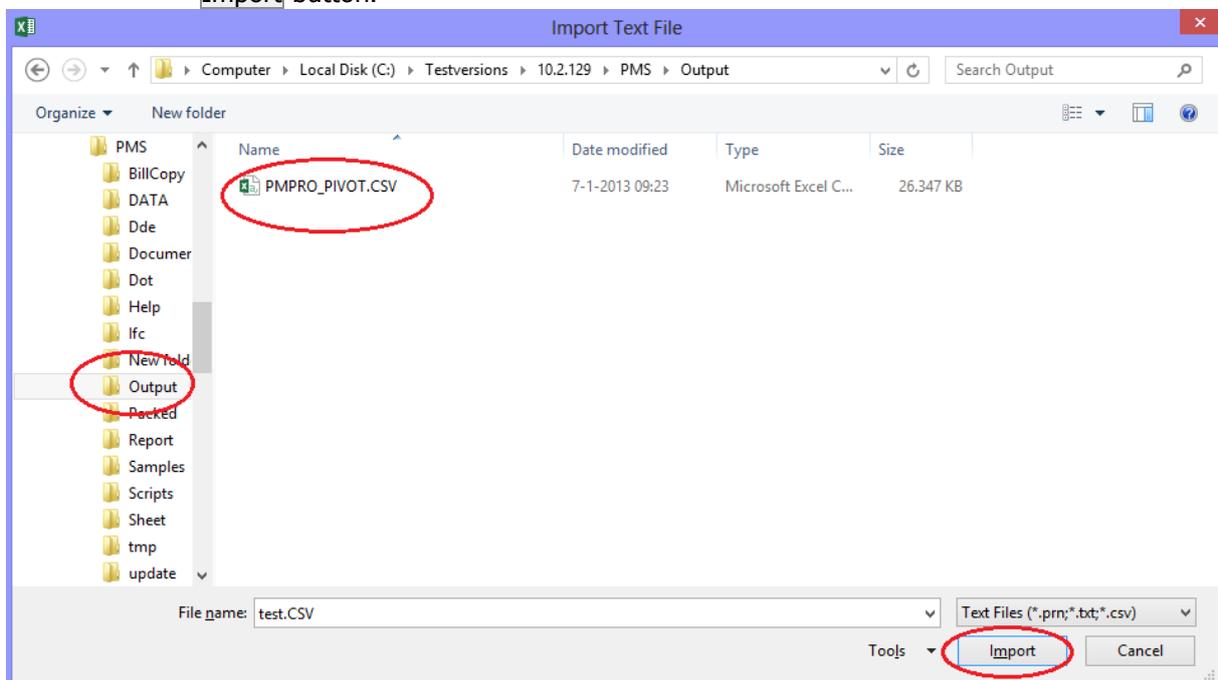
## 5. How to import PMPRO\_PIVOT.CSV data into the current Excel workbook?

Follow the next steps to import the data from the PMPRO\_PIVOT.CSV data source file into your current workbook. The imported data can then be used to create a pivot table by using the 'Select a table or range' option in the 'Create PivotTable' wizard.

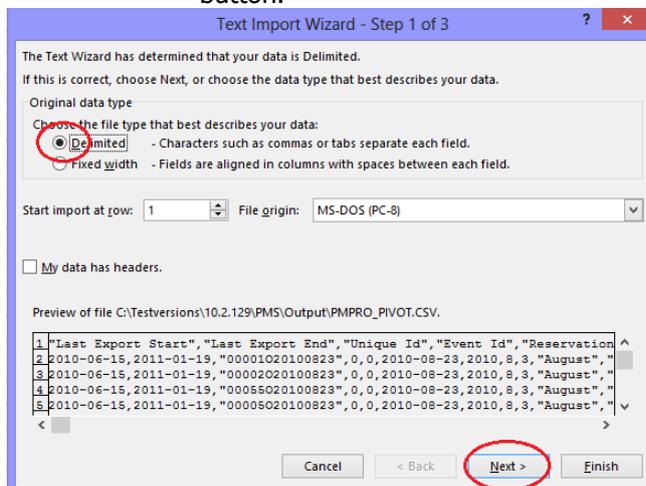
1. Start Microsoft Excel 2007 and open a new document.
2. Click on the **Data** tab, then click on the **From Text** button in the **Get External Data** group.



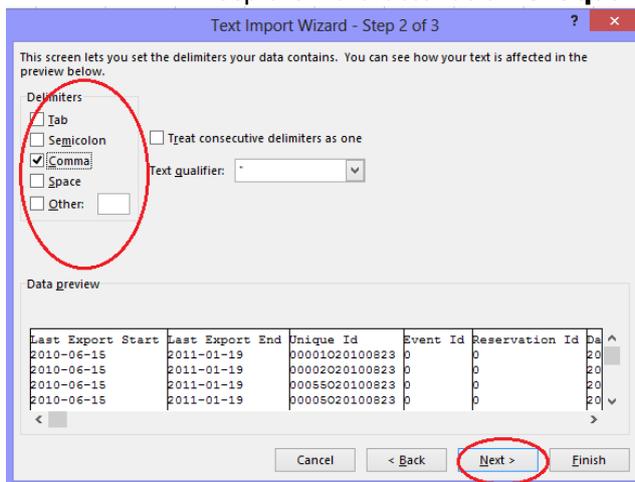
3. You are now in the **Import Text File** screen:
  - Navigate to the `..\PMS\Output` folder, select the PMPRO\_PIVOT.CSV file and click the **Import** button.



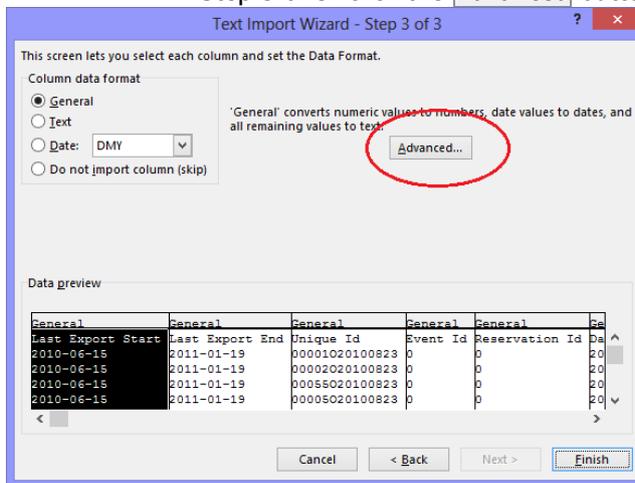
4. You are now in the **Text Import Wizard**:
  - Step 1 of 3: in the **Original data type** area, select **Delimited** and click the **Next** button.



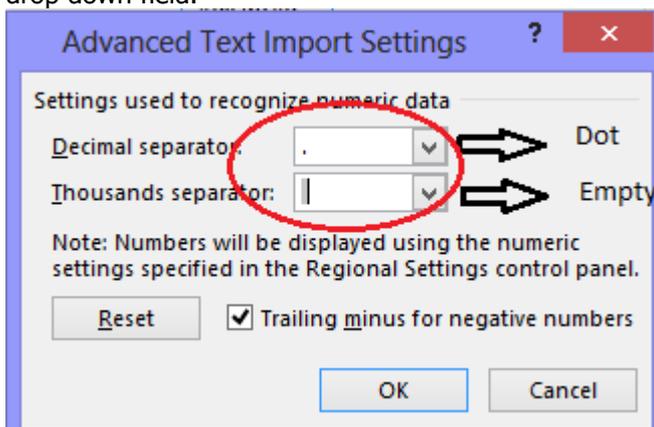
- Step 2 of 3: in the **Delimiters** area, select **Comma** and deselect all other delimiters. Keep the " character as a **Text qualifier**. Then click the **Next** button.



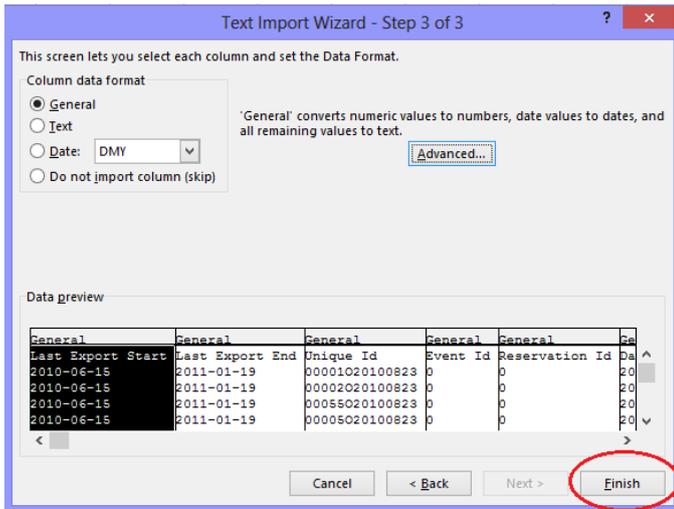
- Step 3 of 3: click the **Advanced** button.



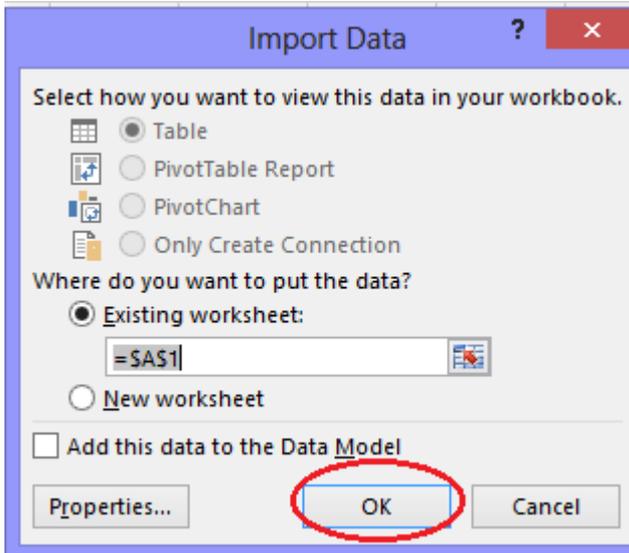
The **Advanced Text Import Settings** window opens. As a **Decimal separator**, select the . (dot) from the drop down field. As a **Thousands separator**, select the blank option from the drop down field.



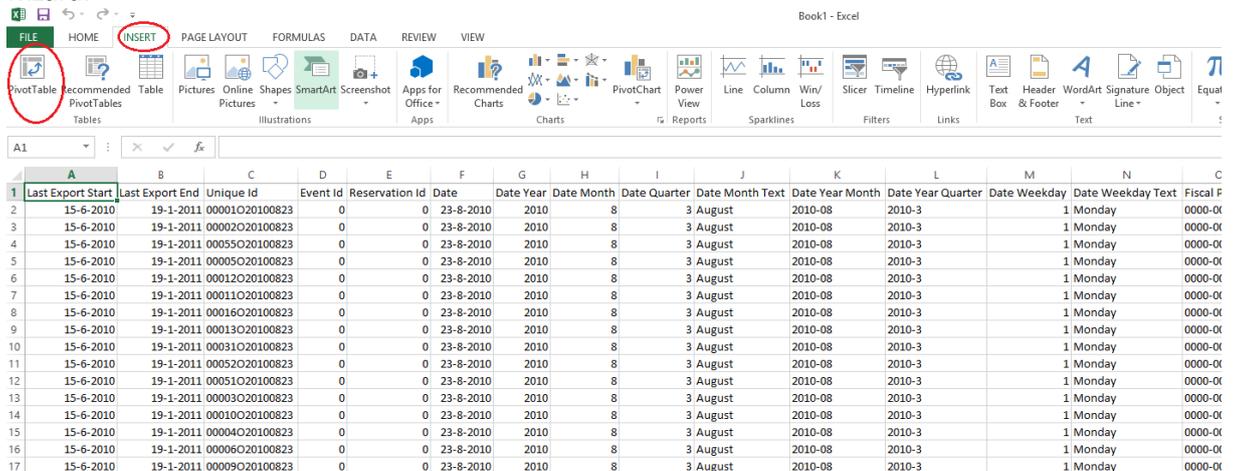
Then click the **OK** button followed by the **Finish** button.



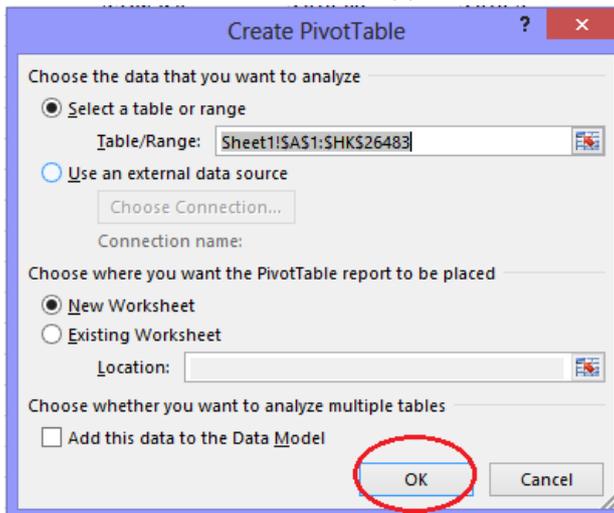
- You are now in the **Import Data** screen.
  - Keep the **Existing worksheet** setting. And click the **OK** button.



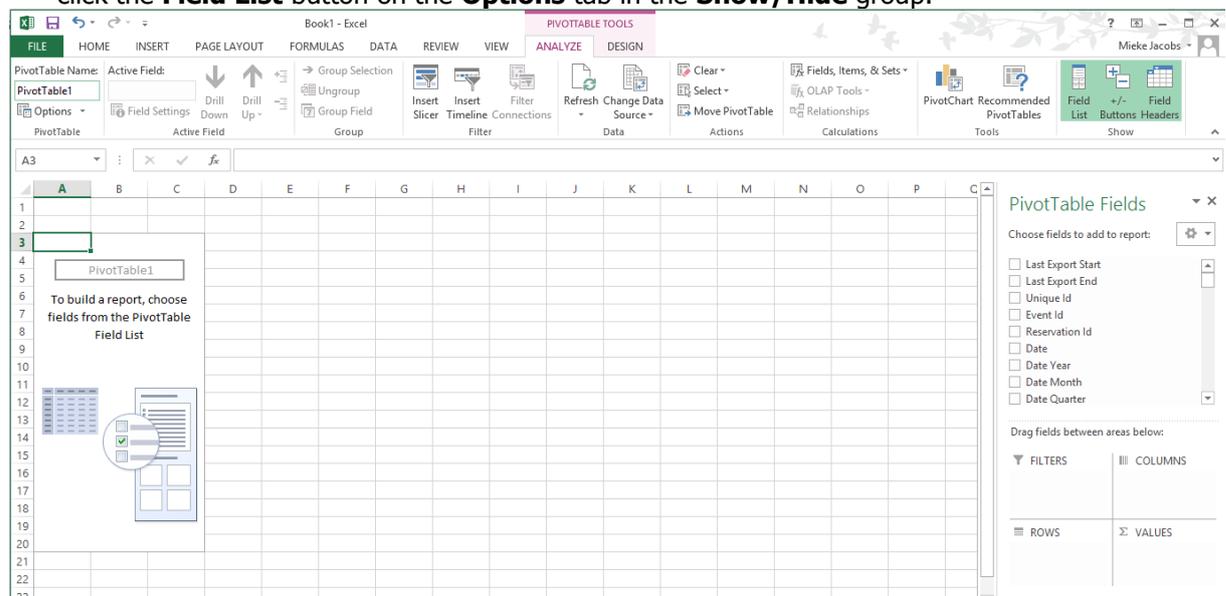
- The data is now imported from the PMPRO\_PIVOT.CSV data source file. This may take several minutes.
- Click on the **Insert** tab, then click on the **PivotTable** button to start the 'Create PivotTable' wizard.



- The 'Create Pivot table' screen appears. Leave all defaults and click ok



- A blank pivot table is inserted in the upper left corner of the worksheet. On the left you see the **PivotTable Field List** with all fields that are available for us in the pivot table. Click outside the pivot table to close the field list and inside the table to open it again. Alternatively, click the **Field List** button on the **Options** tab in the **Show/Hide** group.



- Drag fields from the field list into the areas that are displayed below the field list:
  - Report filter: shows drop down fields above the pivot table to filter on specific data. Examples of fields that are especially suitable for this are the 'Is Allotment', 'Is group', 'Record Class', 'Reservation Status' and the 'Guarantee Status' fields.
  - Row Labels: shows rows by which data will be displayed and summarized in the values area. Examples of fields that are especially suitable for this are the 'Market Code', 'Source Code', 'Channel Code', 'Country', 'State' fields, but also all available date fields.
  - Values: shows the aggregate data in columns. Examples of fields that are especially suitable for this are all revenue fields.
  - Column Labels: similar to row labels and used to group and summarize the values.

Example:



 If you or your colleagues will create pivot tables from different computers, you need to make sure that the **DefaultDir** you specify in the PMPRO\_PIVOT\_DATA\_SOURCE\_CONNECTION.DSN data connection file is accessible by all users on all computers. It is therefore recommended to use an UNC path as indicated in the example in step 3. If you use a 'mapped' drive letter, make sure that the same drive mapping exists on all computers. Contact your system administrator for more information.

## 7. How to refresh imported data?

When you imported the data from the PMPRO\_PIVOT.CSV into the current Excel workbook, that data is not automatically updated you create a new PMPRO\_PIVOT.CSV data source file by running the 'Occupancy and revenue as pivot table data source' report again in PMpro. In stead of following all import steps again you can simply refresh the data in the workbook.

### Refresh the imported data

1. Open the worksheet that contains the imported data and select the first column in the first line of the imported data.
2. Click on the **Data** tab, then click on the **Refresh All** button.
3. You are now in the **Import Text File** screen.
4. Navigate to the ..\PMS\Output folder, select the PMPRO\_PIVOT.CSV file and click the **Open** button.
5. The data will be refreshed.

### Refresh control properties

You can also change the refresh control properties to change the Excel refresh behaviour:

1. Open the worksheet that contains the imported data and select the first column in the first line of the imported data.
2. Click on the **Data** tab, then click on the **Properties** button.
3. You are now in the **External Data Range Properties** screen. You can change the following settings under the **Refresh control** area.
  4.
    - Prompt for file name on refresh: disable this option so you do not have to re-select the data source file each time you refresh the data (as explained in step 10 above).
    - Refresh every .. minutes: enable this option and enter a value to automatically refresh the data on a fixed interval. This is not very useful for a occupancy and revenue pivot table because the data in the PMPRO\_PIVOT.CSV file does not change very often.
    - Refresh data when opening the file: enable this option to automatically refresh the imported data each time you open this workbook.
    - Remove data from the external data range before closing: enable this option if you want to save the workbook with the query definition but without the external data.