Fast-track Power BI

Sample manual - first two chapters



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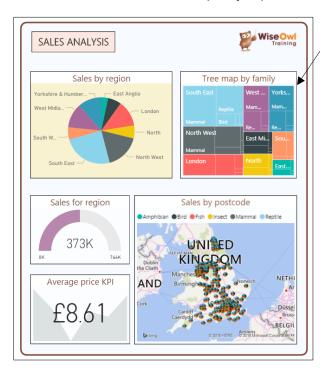
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CHAPTER 1 - POWER BI BASICS

1.1 What is Power BI Desktop?

Power BI Desktop is a standalone software application from Microsoft which allows you to load data into a model, and then create pretty reports like this:

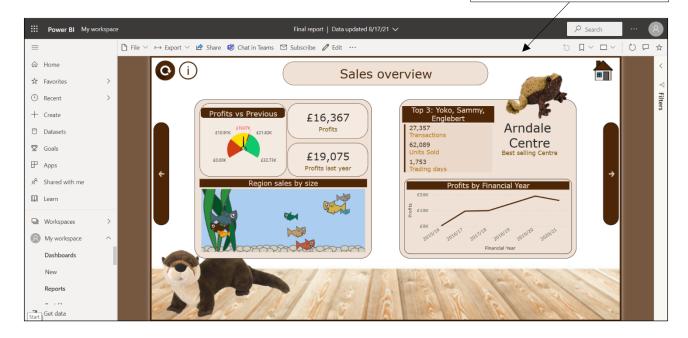


This report contains five *visualisations* (a pie chart, a tree map, a gauge, a map and a KPI).



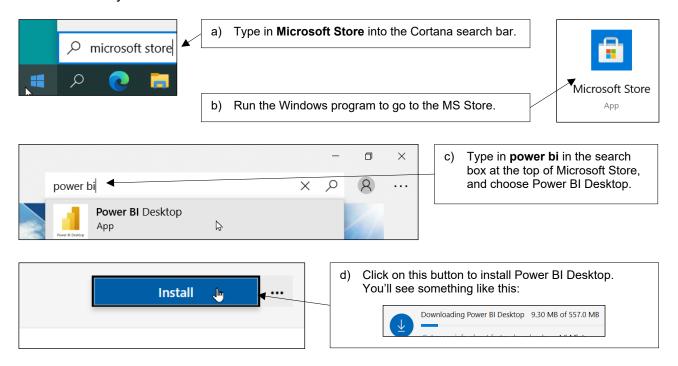
You can then publish these reports to the Power BI Service, allowing anyone who has a paid Power BI account to view them:

Another report as seen in Power BI Service through a browser.

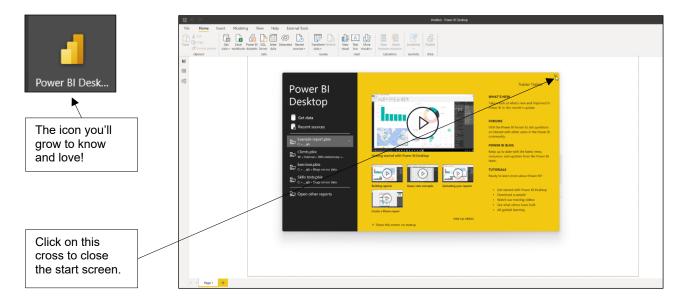


1.2 Installing and Updating Power BI

The easiest way to install Power BI is from the Microsoft Store:



You'll then be able to run Power BI Desktop like any other Windows program:



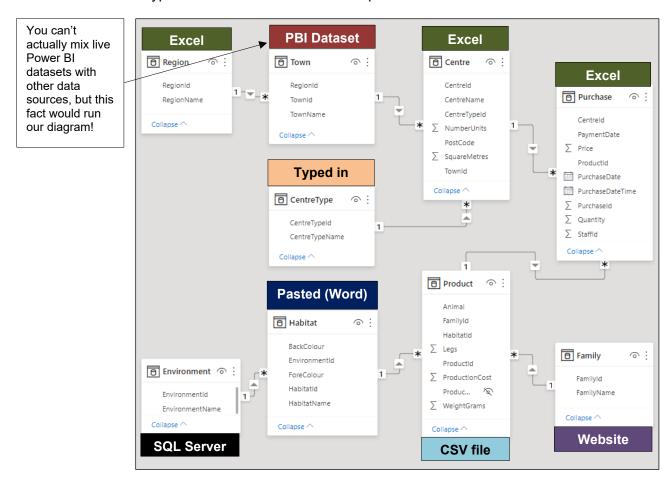


Every month Power BI will update automatically as Microsoft release new features. The best way to keep track of what these new features entail is to subscribe to the Wise Owl newsletter. This goes out at the start of each month and (among other things) summarises and explains any new updates to Power BI.

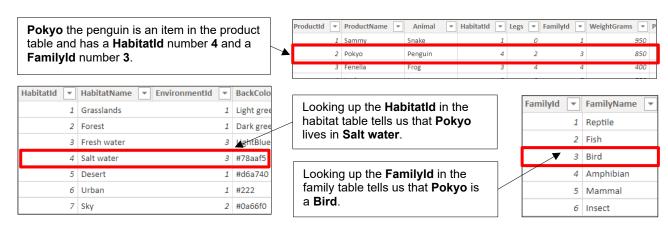
CHAPTER 2 - IMPORTING DATA

2.1 Our Example

Our example is based on a relational database which keeps track of sales of soft toys. The diagram below shows which type of data source we'll use to import each table:

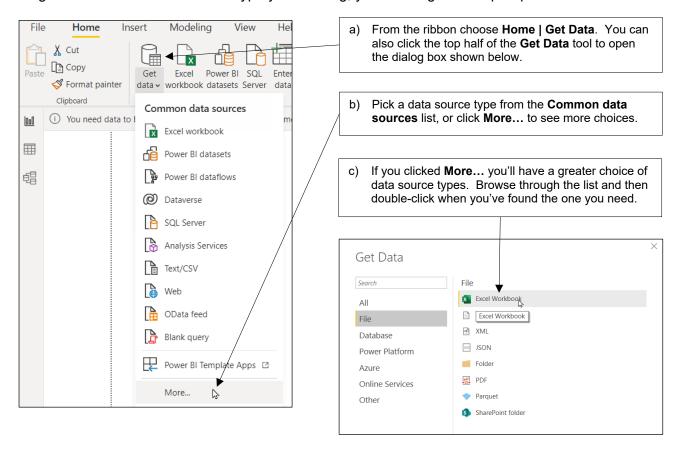


The tables in the model are related using a system of ID columns. For example, this is what the habitat and product tables will look like after we import them into our model:



2.2 Importing from Different Sources

This section shows how to import data into a report from a variety of common data source types. Regardless of which data source type you're using, you can begin the import process as follows:

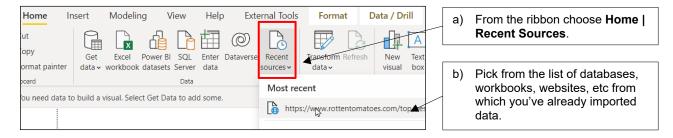




What happens next depends on which data source type you've chosen but it inevitably involves launching some type of wizard which will help you import your data.

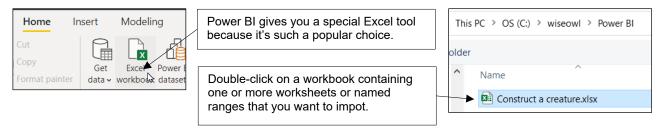
Re-Using a Data Source

You can quickly reuse a recent data source as shown below:

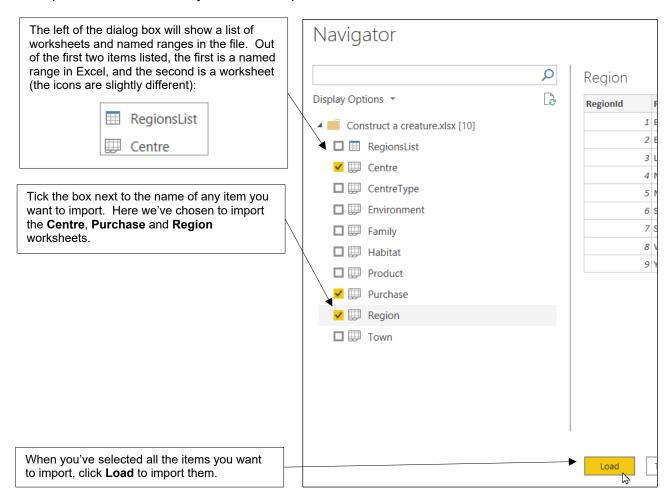


2.3 Importing from Excel

To start importing from an Excel workbook, use the short-cut:



The dialog box which appears lists the contents of the workbook you have selected. You can choose which parts of the workbook you want to import as shown below:





If you get a message saying that Power BI Desktop can't import data because a 64-bit driver isn't installed, make your life easier by saving all your Excel workbooks with **xIs** and not **xIsx** extensions (it's by far the quickest solution, although most users won't see this problem).

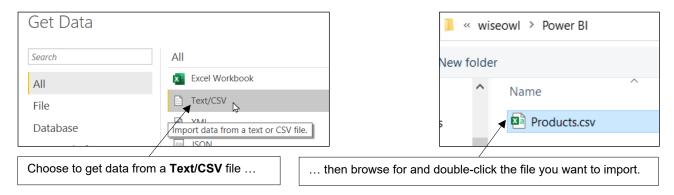
2.4 Importing CSV or Text Files

You can import from CSV files as well as a variety of other text file types.

CSV stands for Comma Separated Values. The value in one column is separated from the next with a comma. Our example file also includes a row of column headers.

ProductId,Produ

To begin importing from a text file:

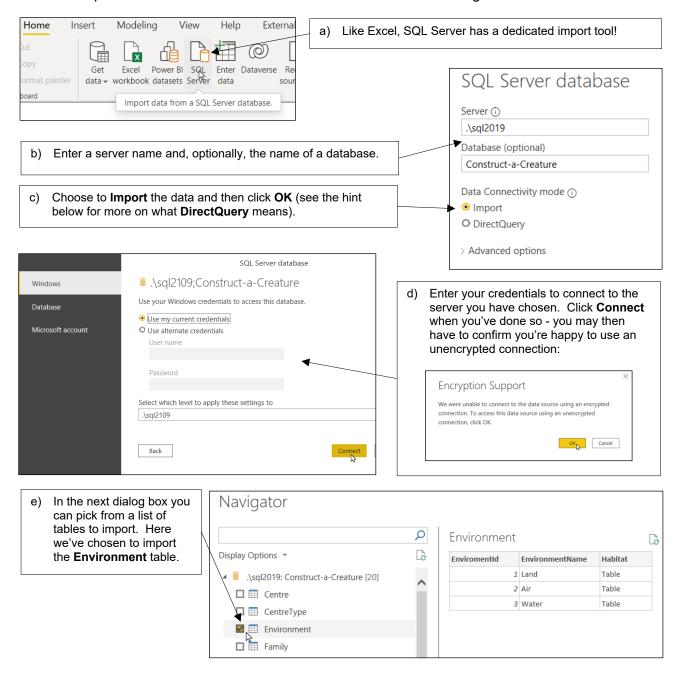


You can then choose exactly how the text file is configured using the dialog box which appears:



2.5 Importing from SQL Server

You can import data from a SQL Server database as shown in the diagram below:

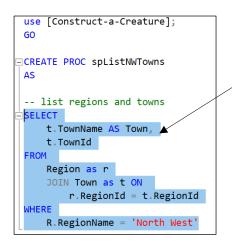




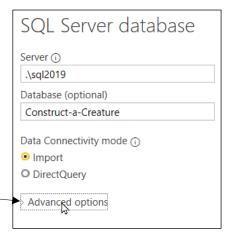
If you're wondering, DirectQuery means you don't import the data into your model: you just link to it. On the plus side this means your visualisations are always bang up to date, but on the downside, they may run more slowly, and there are numerous limitations (for example, you can only use a few types of data source and you can't use something called calculated columns).

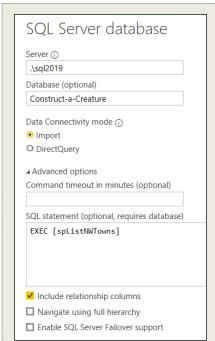
Using Queries and Stored Procedures

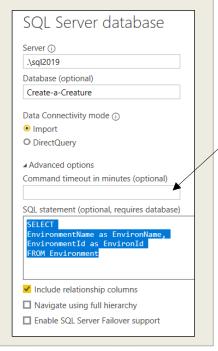
Rather than choosing to import from a list of tables, you can write a query to return your data. This is more complicated but provides much more control over which data you get.



- a) It's much easier to test your query in SQL Server Management Studio than it is to type it into Power B!! When your query or stored procedure is working, copy the query text or the name of the stored procedure to the clipboard.
- b) While loading SQL Server data, choose to show advanced options.







c) Choose either to execute a stored procedure (left) or run a query right. Note that the square brackets round the stored procedure name appear to be needed! Either option will then let you load your data:

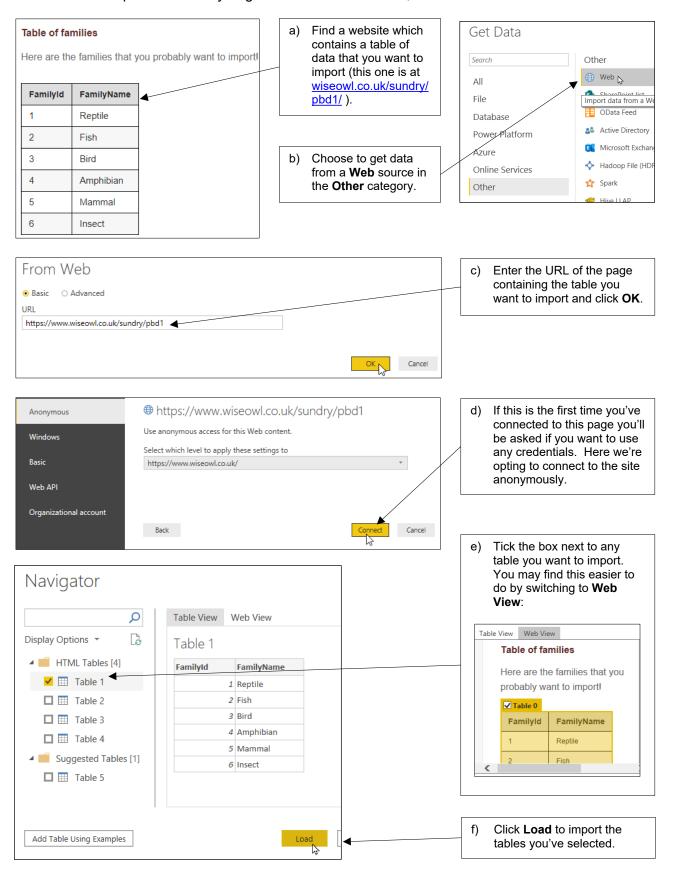




At the time of writing, sadly, Power BI Desktop doesn't have a Query Builder tool to help you construct an SQL query without needing to write any code. More bad news: there is a way to pass parameters to stored procedures, but it's complicated and doesn't work particularly well.

2.6 Importing from a Website

Power BI Desktop makes it easy to grab data from a website, as shown below:



2.7 Importing a Power BI Dataset

If someone has published a Power BI dataset on Power BI Service, here's how to load it:



a) Click on this dedicated icon. If you get the following self-explanatory message, you won't be able to proceed:

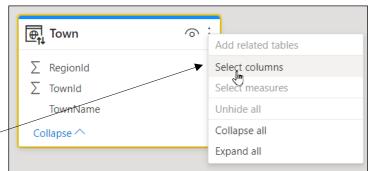
Power BI Service Live Connection

The Connect live option for this file is disabled because it already contains data from another data source. You cannot explore live data and connect to another type of data source in the same file. Create a new file to explore live data.

 b) Choose the published dataset that you want to load (note that if you're not currently signed in to Power BI Service, you'll need to do this first).



c) Power BI bypasses Query Editor and loads your data. There aren't as many things that you can do with this as with a normal query.

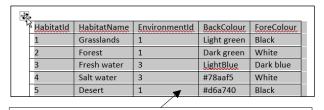


2.8 Entering Data Manually

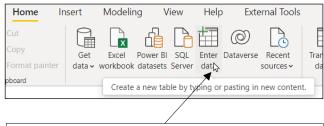
As well as importing existing data, Power BI Desktop allows you to enter data into a model manually.

Pasting Data

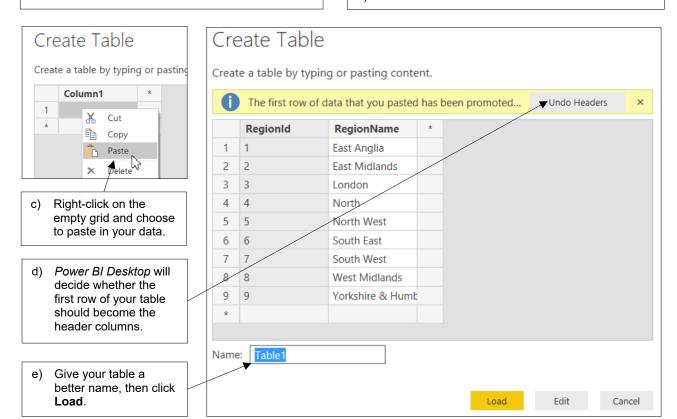
Although you can't import directly from Word, you can copy and paste:



a) In Word, select the table you want to import and copy it.



b) Click on this button to enter data into a new table.

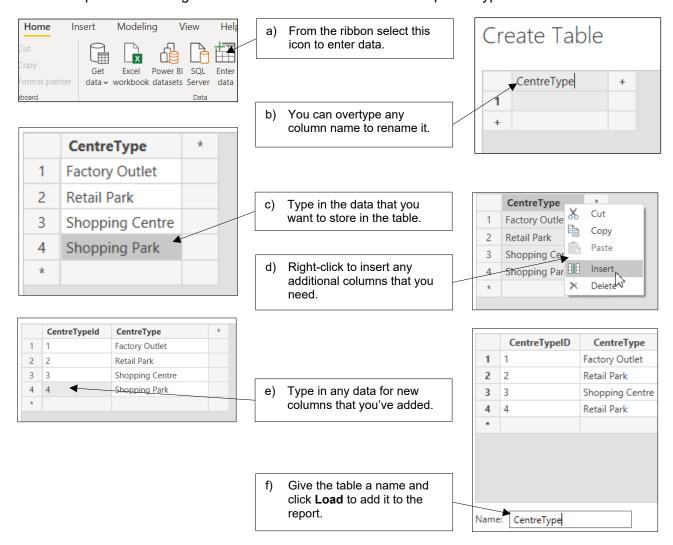




If you copy and paste data, you obviously won't be able to refresh the resulting table to bring in updates.

Typing in Data

The final option for loading data into a model in *Power BI Desktop* is to type it in!



What we do!

		Basic training	Advanced training	Systems / consultancy
90	Microsoft Excel			
	VBA macros			
Office	Office Scripts			
	Microsoft Access			
etc	Power BI and DAX			
Power BI, etc	Power Apps			
P _{0w}	Power Automate (both)			
	SQL			
ver	Reporting Services			
SQL Server	Report Builder			
1ÒS	Integration Services			
	Analysis Services			
ing	Visual C#			
	VB programming			
Coding	MySQL			
	Python			



