Data Visualisation Packages



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Session Content



What are data visualisation packages?



PowerBI



Importing and Cleaning Data



Visualisation



Data Visualisation Packages

Many companies offer downloadable Software as a Service (SaaS) tools that enable you to import data and to create reports and data visualisations from this data using a dedicated environment.

These software packages help users to manipulate their data at the click of a button, rather than forcing the user to write complicated code.

Pros

Mostly no code needed
Simple user interface
Easier to learn

Cons

Limited functionality
Usually available at a cost
Less powerful



What's out there?











Power BI



Microsoft Power BI is one of the most popular data visualisation packages and is used by many organisations to analyse their data. Notable examples using Power BI are:







A personal version that is free to run is available, this will enable you to practice with the software for free. Please do note that some of the features are limited to premium/paid for versions.



Importing Data

Category

Accessories

Accessories

Accessories

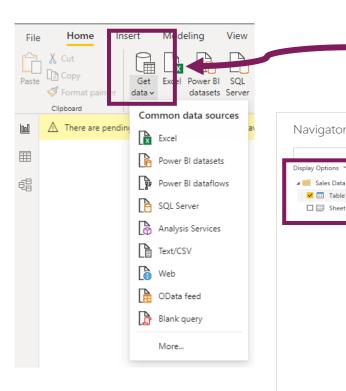
Home

SubTotal Hom

SubTotal Accessori

Small Leather Good

☐ Ⅲ Sheet1



Selecting "Get Data" in the toolbar will show you which types of data that you can import in to PowerBI. This is comprehensive and includes both Excel and csv formats.

1059.02

24795.49

15076.34 5837.27

20913.61 11875.56

20968.05

8452.49

6253.82

Navigate to the file you wish to import and then tick to select your data

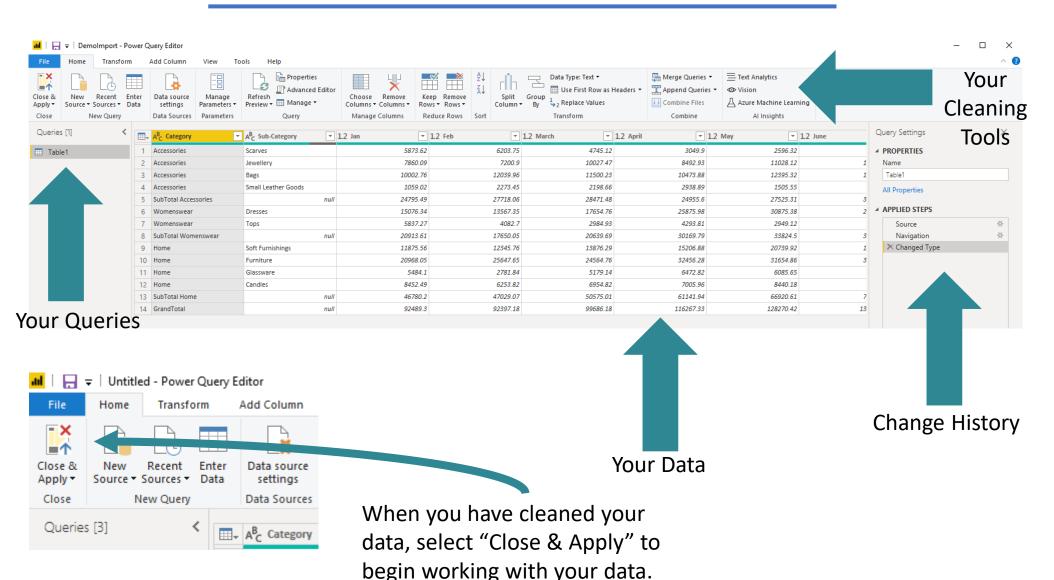
Select "Transform Data" to open the PowerBI Query Editor as a new pop out window. This is where you can begin to edit and clean your data

If your data is already clean, you can simply load the data





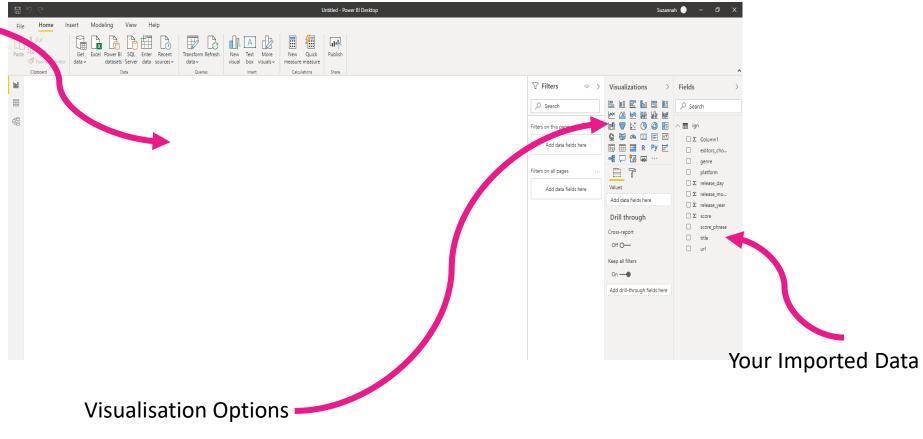
Cleaning Data – Query Editor



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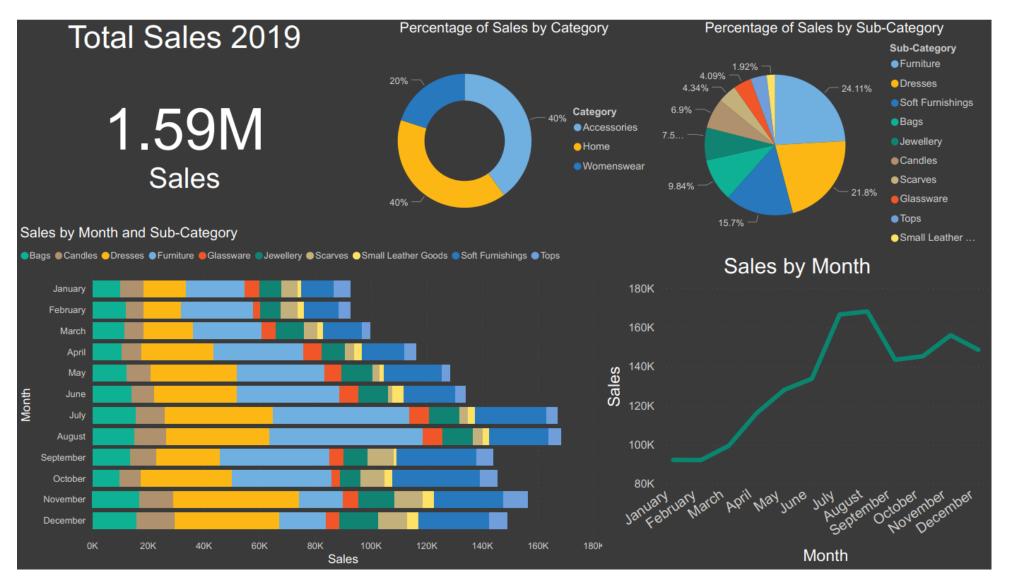
The Visualisation Interface

Dashboard Area





Visualisation Dashboards





Home Learning Tasks



Create Your Own Dashboard!

Download PowerBI and create a dashboard of your own!

PowerBI – https://powerbi.microsoft.com/en-us/downloads/

Feel free to use a dataset of your choosing. You might have your own or you are welcome to search Kaggle for appropriate datasets:

https://www.kaggle.com/datasets

Alternatively, you can use the IGN Reviews dataset we have previously looked at.

Check out the PowerBI community gallery for inspiration!

https://community.powerbi.com/t5/Data-Stories-Gallery/bd-p/DataStoriesGallery







Further Information/Downloads

Tableau – https://www.tableau.com/en-gb/trial/tableau-software

Alteryx - https://www.alteryx.com/

Qlik Sense – https://www.qlik.com/us/products/qlik-sense



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