

Creating a multi-sports event dashboard in Microsoft PowerBI

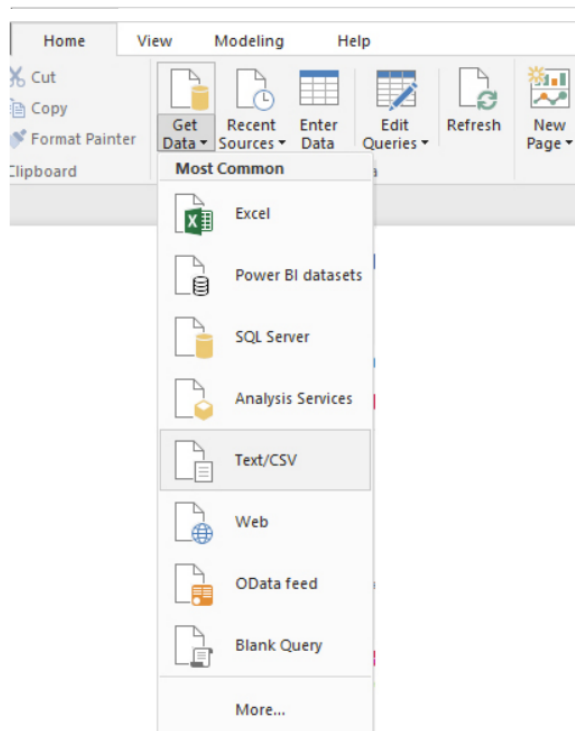
This demo will provide an introduction in

- loading flat files (.csv) into PowerBI
- creating New Measures in PowerBI
- creating custom sorting order in PowerBI
- creating different visualisations to build a dashboard

This dataset used is scrapped from the 8th Asean ParaGames website (2015) using the free tier of import.io

Part 1: Inserting Data - medals.csv

Load the flat file data into PowerBI by clicking on "Get Data" > "Text/CSV" > and select "medals.csv". The medals.csv data contains all the information scrapped from the 8th Asean ParaGames websites containing the event name, player name, country, medal type, day of the event, genre of the sport, gender, and the sport type (team or single).



On the preview window click on the "load" button to import the data into PowerBI

medals.csv

File Origin		Delimiter	Data Type Detection	
1252: Western European (Windows)		Comma	Based on first 200 rows	

event	name	country	medal	day	win	sport	gender	type
Men's 100M - T11	ABDUL HALIM DALIMUNTE	Indonesia	Gold	2	1	Athletics	Men	Singles
Men's 100M - T11	JORCHUY KITSANA	Thailand	Silver	2	1	Athletics	Men	Singles
Men's 100M - T11	SUNOTO	Indonesia	Bronze	2	1	Athletics	Men	Singles
Men's 100M - T12	MOHAMAD FAIZAL AIDEAL BIN SUHAIMI	Malaysia	Gold	2	1	Athletics	Men	Singles
Men's 100M - T12	MOHAMAD SAIFUDDIN BIN ISHAK	Malaysia	Silver	2	1	Athletics	Men	Singles
Men's 100M - T12	MUHAMAD AFIQ BIN MOHAMAD ALI HANAFIAH	Malaysia	Bronze	2	1	Athletics	Men	Singles
Men's 100M - T37	LE VAN MANH	Vietnam	Gold	2	1	Athletics	Men	Singles
Men's 100M - T37	SAEWANG SAKPHET	Thailand	Silver	2	1	Athletics	Men	Singles
Men's 100M - T37	TAON CHAIRAT	Thailand	Bronze	2	1	Athletics	Men	Singles
Men's 100M - T38	KRISHNA KUMAR HARI DAS	Malaysia	Gold	2	1	Athletics	Men	Singles
Men's 100M - T38	SUYONO	Indonesia	Silver	2	1	Athletics	Men	Singles
Men's 100M - T38	AMIR FIRDAUSS BIN JAMALUDDIN	Malaysia	Bronze	2	1	Athletics	Men	Singles
Men's 100M - T54	KONJEN SAICHON	Thailand	Gold	2	1	Athletics	Men	Singles
Men's 100M - T54	JAENAL ARIPIIN	Indonesia	Silver	2	1	Athletics	Men	Singles
Men's 100M - T54	VAN VUN	Cambodia	Bronze	2	1	Athletics	Men	Singles
Men's 200M - T36	MOHAMAD RIDZUAN BIN MOHAMAD PUZI	Malaysia	Gold	2	1	Athletics	Men	Singles
Men's 200M - T36	MUHAMAD AGUNG LAKSANA	Indonesia	Silver	2	1	Athletics	Men	Singles
Men's 800M - T52/53	PAEYO PONGSAKORN	Thailand	Gold	2	1	Athletics	Men	Singles
Men's 800M - T52/53	KRUNGET PICHET	Thailand	Silver	2	1	Athletics	Men	Singles
Men's 800M - T52/53	INTASEN SOPA	Thailand	Bronze	2	1	Athletics	Men	Singles

The data in the preview has been truncated due to size limits.

Load Edit Cancel

Part 2: Inserting Data - medalSort.csv

Repeat the steps in **Part 1** and import the medalSort.csv data into PowerBI The medalSort.csv data contains the data to perform custom sorting in PowerBI. PowerBI could not understand the sort order of the medal type. For example Gold is > than Silver > than Bronze therefore we need to specify a custom sorting order.

If the custom sorting is not specified, PowerBI will sort the medal in alphabetical hierarchical format -> Bronze, Gold, Silver, which is wrong.

Navigate to the **Relationship Viewer** last tab on the left hand panel to see the relationship between the two loaded dataset

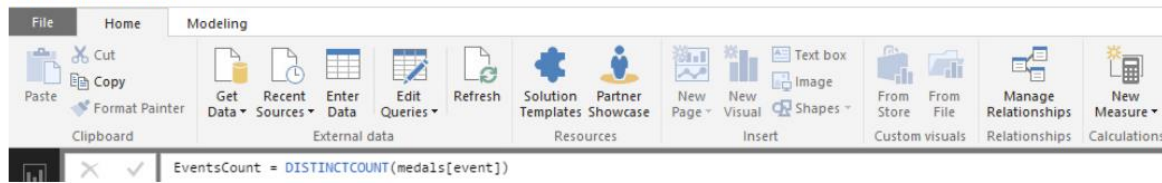
Part 3: Creating New Measures

Four new measures needs to be created in order to present the information in the final dashboard

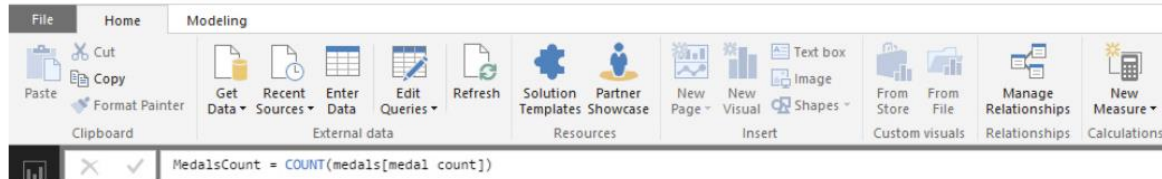
- total event count
- total medal count
- cumulative event count
- cumulative medal count

Navigate to the **Query Editor** middle tab on the left hand panel and add the four new measures to the medal dataset as shown below:

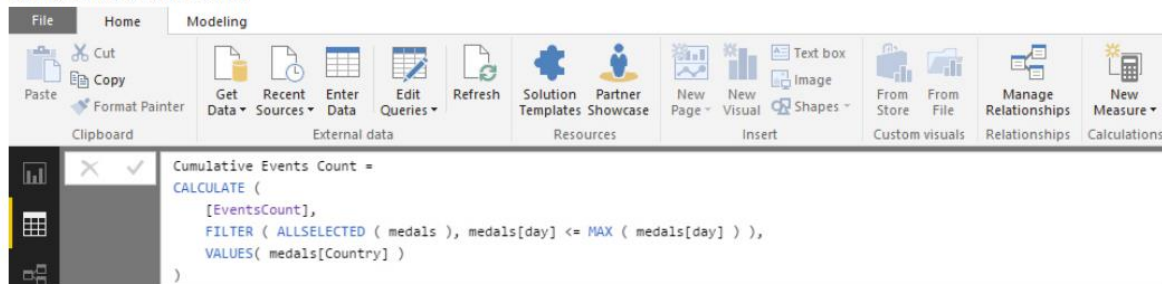
total event count



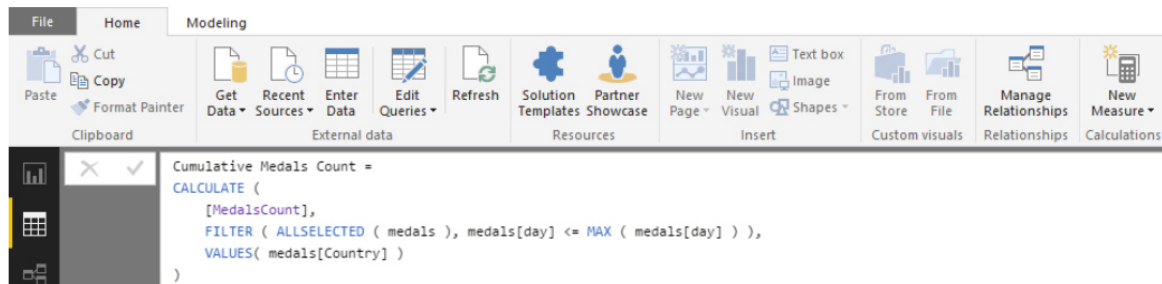
total medal count



cumulative event count



cumulative medal count



Part 4: Building Visualisations for Dashboard

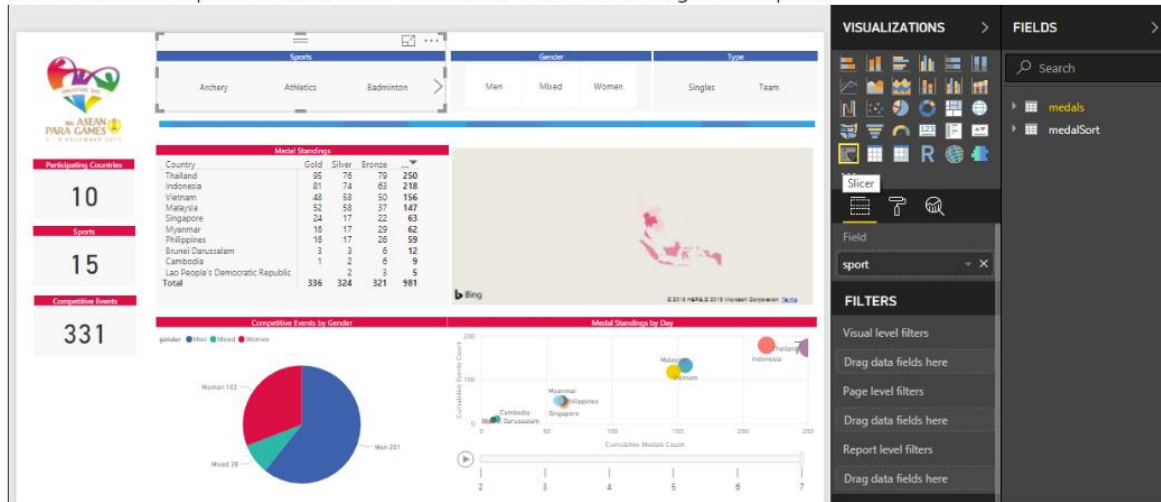
The different types of visualisations used to build the dashboard are:

- silcer
- cards
- piechart
- table
- filled map
- scatter plot

Navigate to the **Report** first tab on the left hand panel and add the different visualisations to the dashboard canvas:

slicer visualisation

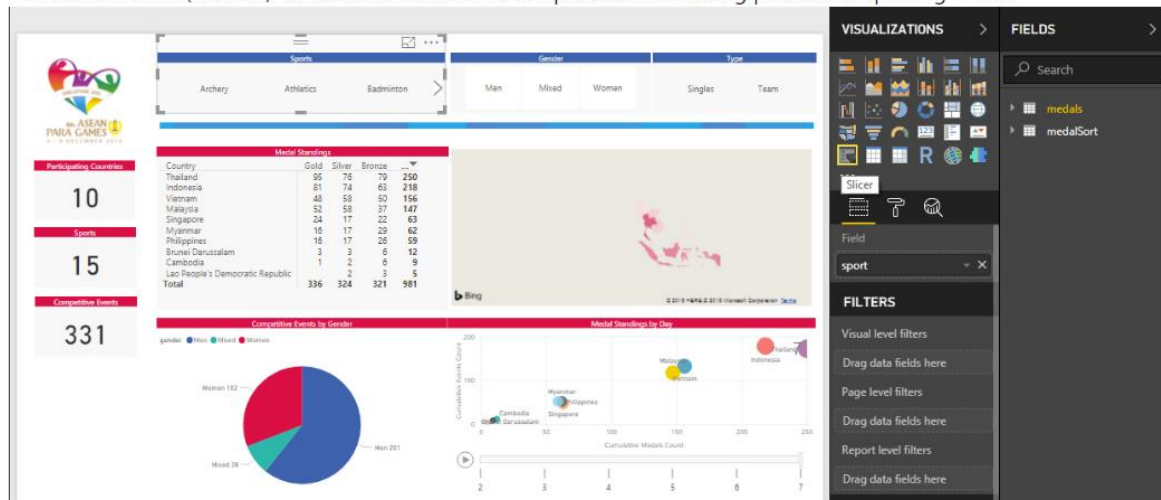
Drag the slicer visualisation onto the canvas to act as a filter. Next drag 'sport' from the field panel to the slicer Field in the visualisation panel. This creates a filter based on the different genre of sports.



Create another two sets of filter using the 'genre' and 'type' data column

cards visualisation

Drag the cards visualisation onto the canvas. Add 'Country' to the cards Field, next click on the added 'Country' data and select 'Count (Distinct)' to show the number of unique countries taking part in this sporting event.



Repeat the above steps and for displaying the number of different sports involved and competitive events

piechart visualisation

Drag the piechart visualisation onto the canvas. Add 'gender' to the piechart Legend and 'event' to the piechart Values, click on the added 'event' data and select 'Count (Distinct)'

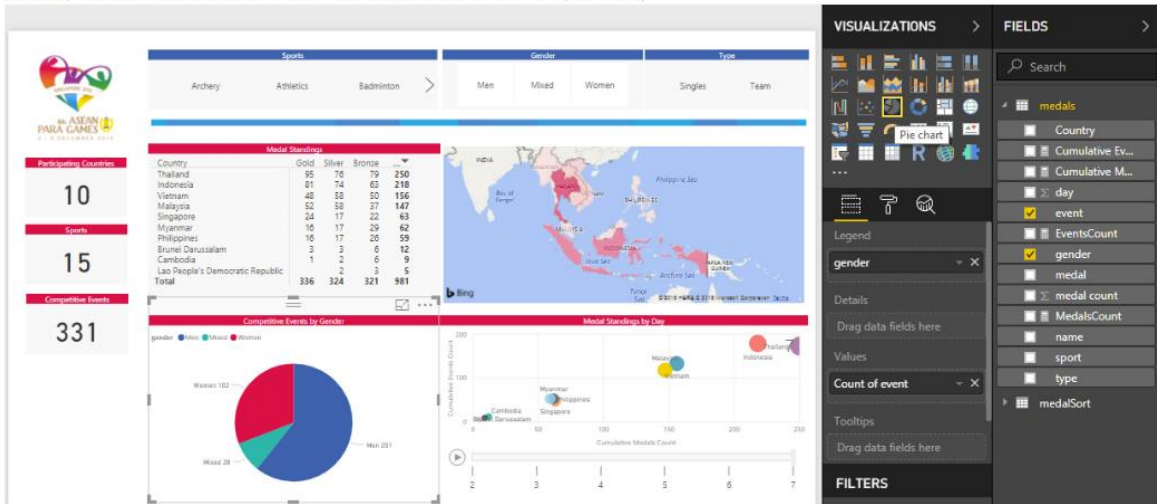
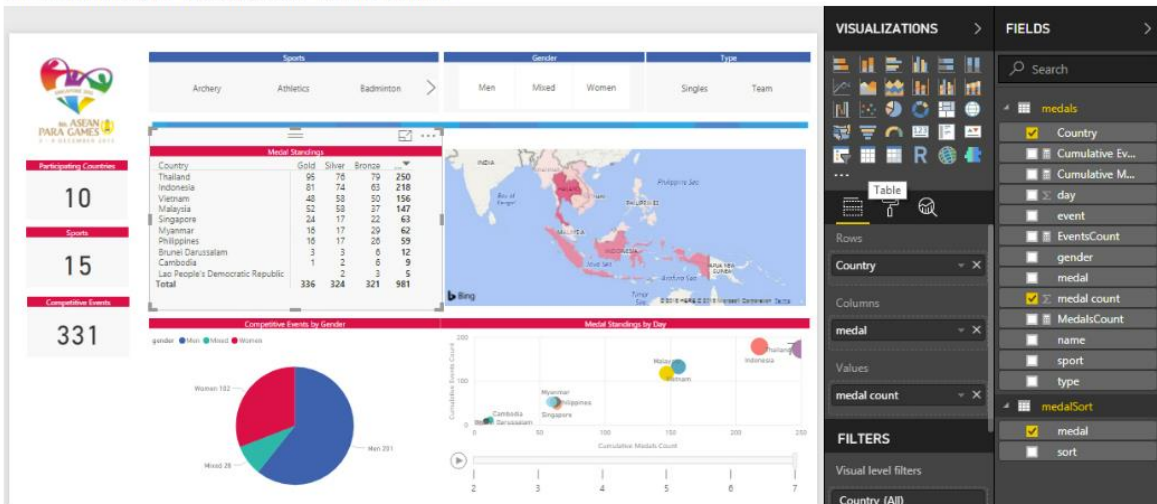


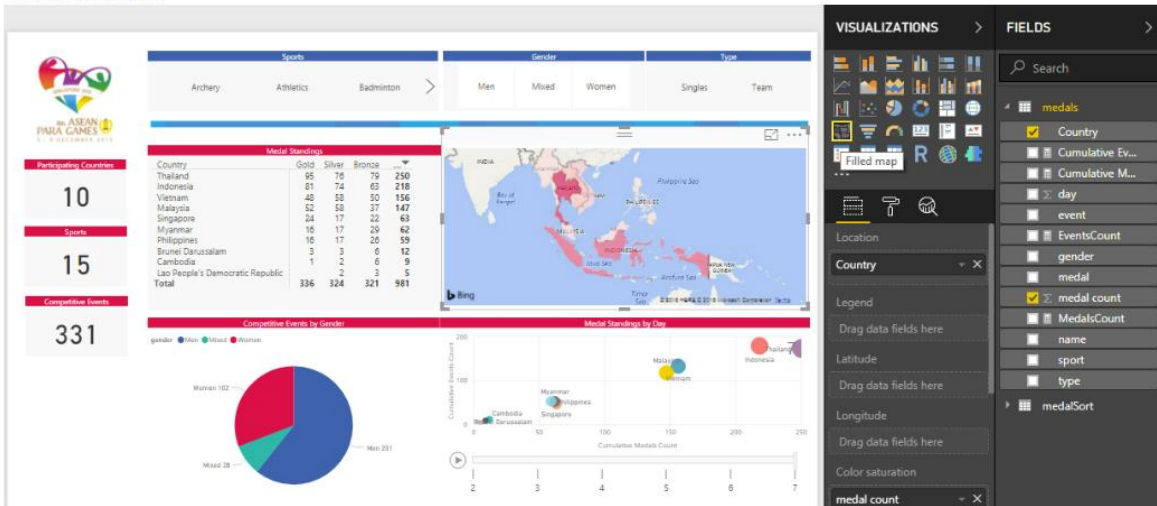
table visualisation

Drag the table visualisation onto the canvas. Add 'Country' to the table Rows, 'medal' (from the medals dataset) to the Columns and 'medal count' to the Values



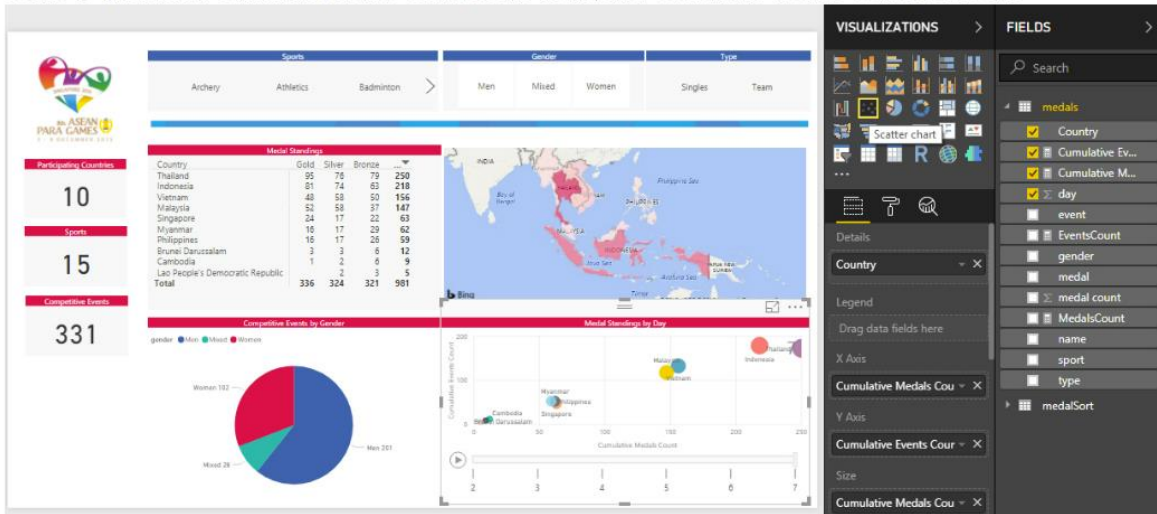
filled map visualisation

Drag the filled map visualisation onto the canvas. Add 'Country' to the filled map Location, and 'medal count' to the Color saturation

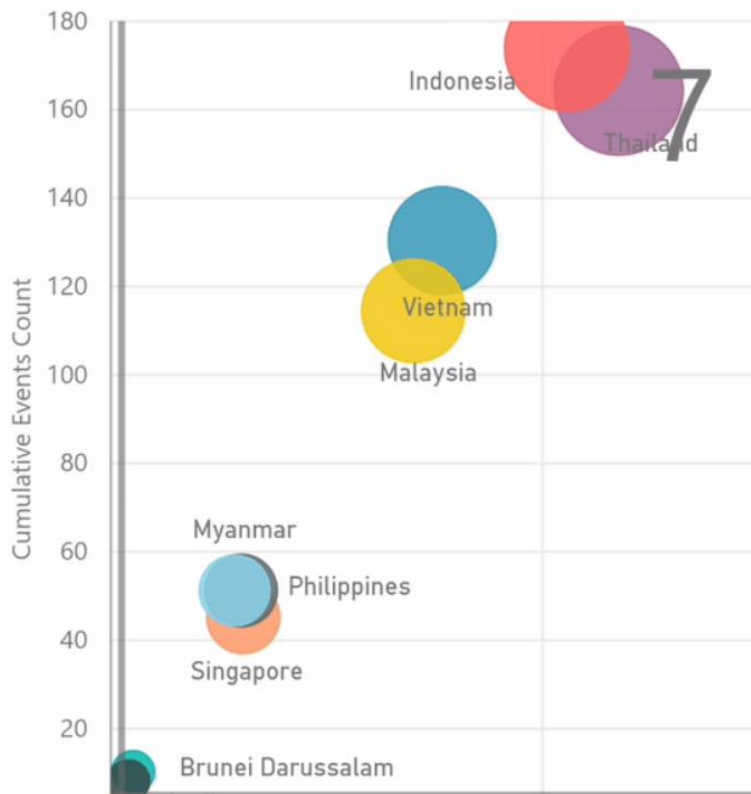


scatter chart visualisation

Drag the scatter chart visualisation onto the canvas. Add 'Country' to the scatter chart Details, 'Cumulative Medals Count' to the X Axis, 'Cumulative Events Count' to the Y Axis, and 'Cumulative Medals Count' to the Size



Animation of the medal counts by country by day



Final Dashboard

