Week 6 - Data visualization (Intro)

The objective of the sixth week is to create the data visualization for the project.

As the data mart layer is completed, the project is ready to jump into the visualization part through Power BI. The proper presentation of the data is essential as the main objective is to create actions from the stakeholders through insights gained from the dashboards. Last part of the project is to create visualizations as a foundation for these insights.

Learning materials

- Power BI Tutorial
- Power BI Beginner Tutorial
- Power BI Map

Prerequisites

- Completed data mart layer
- Installed Power BI Desktop through this link (not from Microsoft Store)
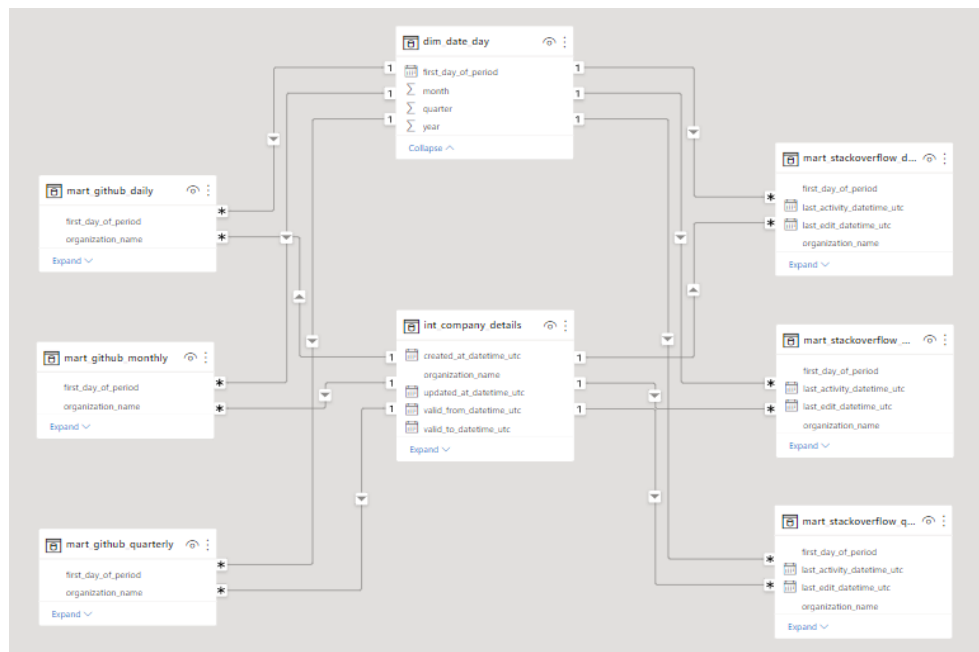
List of actions in Power BI

- Add the Big Query data sources. Get data button from the panel.
- Select your project and add all the mart tables and the intermediate Company Details only.
- Edit and sort the Company Details table in the Power Query Editor. The Company details should only contain the actual version of the sheet.

- Create a dim_date_day table from scratch. One of the daily data mart tables can be duplicated, sorted, and renamed for this purpose. The final table should be the following with unique values.

- Create the relational model. This is a possible output, but all the six data mart tables should be mapped to the company details table through organization and the dim_date_day table through the first_day_of_period column.

First dashboards

Now everything is set to start the creation of the visualizations. At this stage, the task is to start to explore Power BI. An MVP is added here, it is just a few filters and charts to start the visualization. It is up to your imagination, but try to use various charts, filters, diagrams and create some custom KPIs using DAX.