# POWER BI IMPLEMENTATION FOR SOCCER ANALYSIS:

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1. Power BI is a visualization tool used for this project to discuss and analyze information present in the data warehouse. This helps in creating interactive dashboards/reports which in turn help the users understand and draw intuitive conclusions from the existing data. Even the historical data with a proper implementation of continuous graphs can result in a meaningful analysis.

2. The steps followed in importing data, utilizing queried information and also different graphs in diverse reporting pages are included below.

3. Firstly, we need to download the power bi desktop tool, after successful installation open the application. You can find the primary step to getting data, now select the get data option and then traverse to the corresponding data source. As we are procuring data from Azure Data Warehouse, we selected the option Azure Synapse Analytics SQL and press connect.
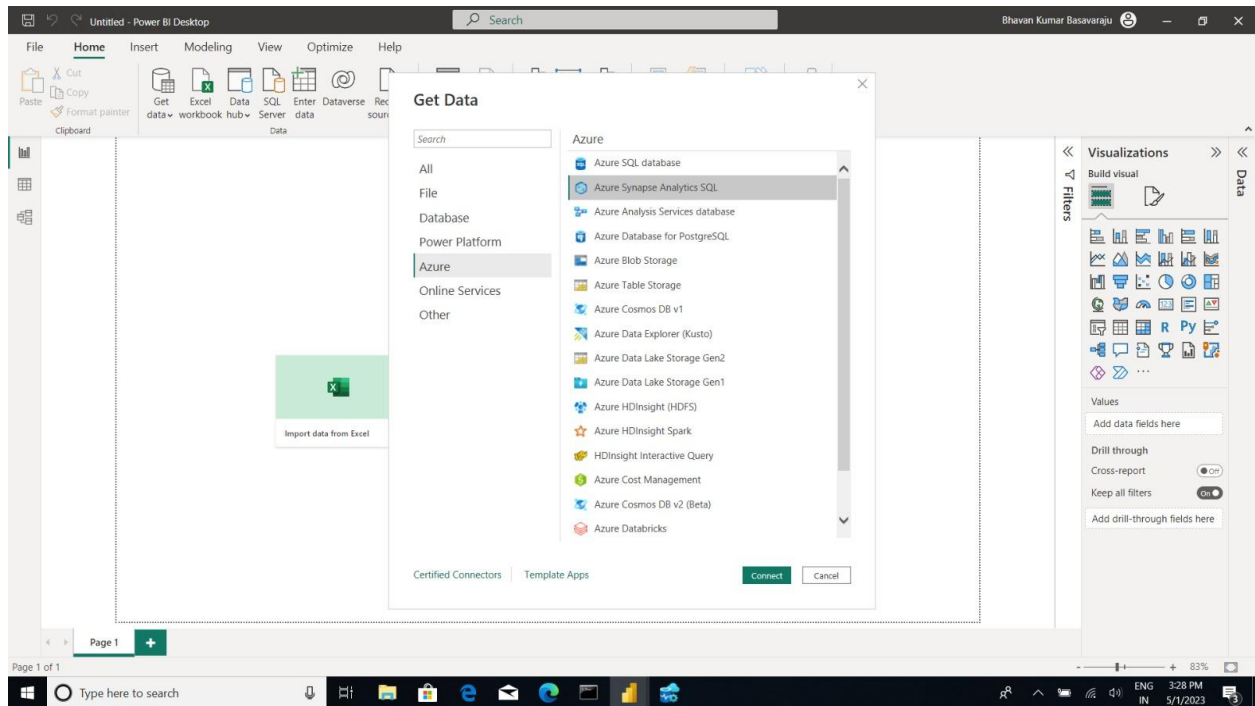

4. For the next steps, you need to provide the server name and database information then press 'ok' (here the database name is optional). The connectivity mode is to be 'import' as we are required to be doing the same. Then the screen pops out asking for credentials, usually if the windows credentials are the same as the db credentials this step would be parsed, but here we have different credentials. So the Database option is selected and credentials are entered (username and password). Now selecting connect will import the data to the power bi interface.
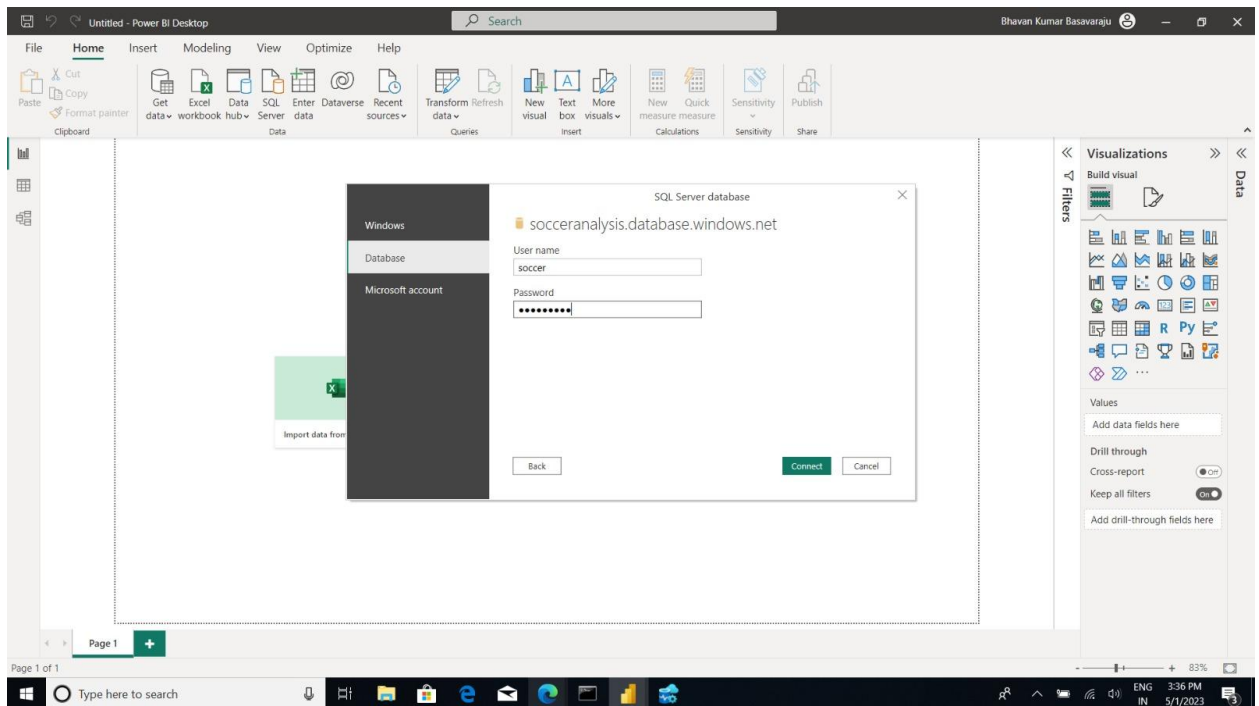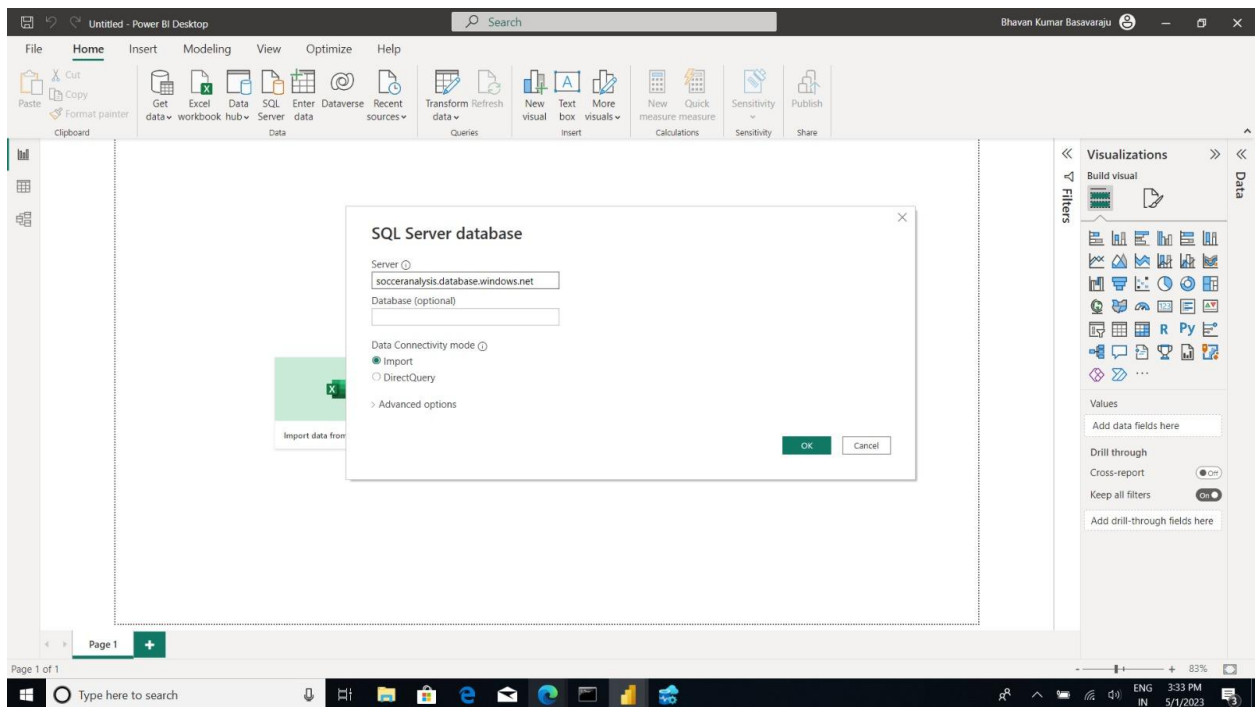
5. In this step you get an option to select which data to load or even an option to transform the data. As we have the data in the required format and ready to visualize, we selected to load the data. In the future we even use the similar feature by importing the .csv file which is the result of a query in the warehouse.
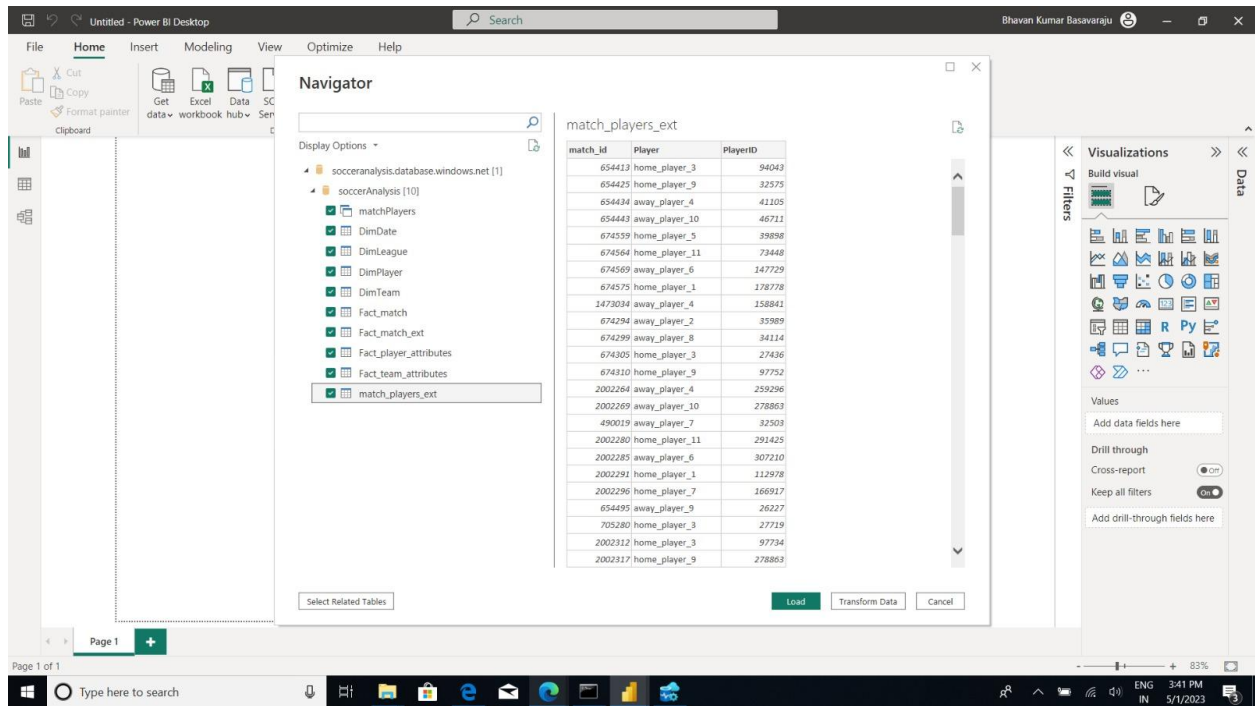
6. As we can find the data on the left and on the right we can see we are utilizing the feature of report, now we build visualization by selecting the suitable and required visual in the visualizations tab.
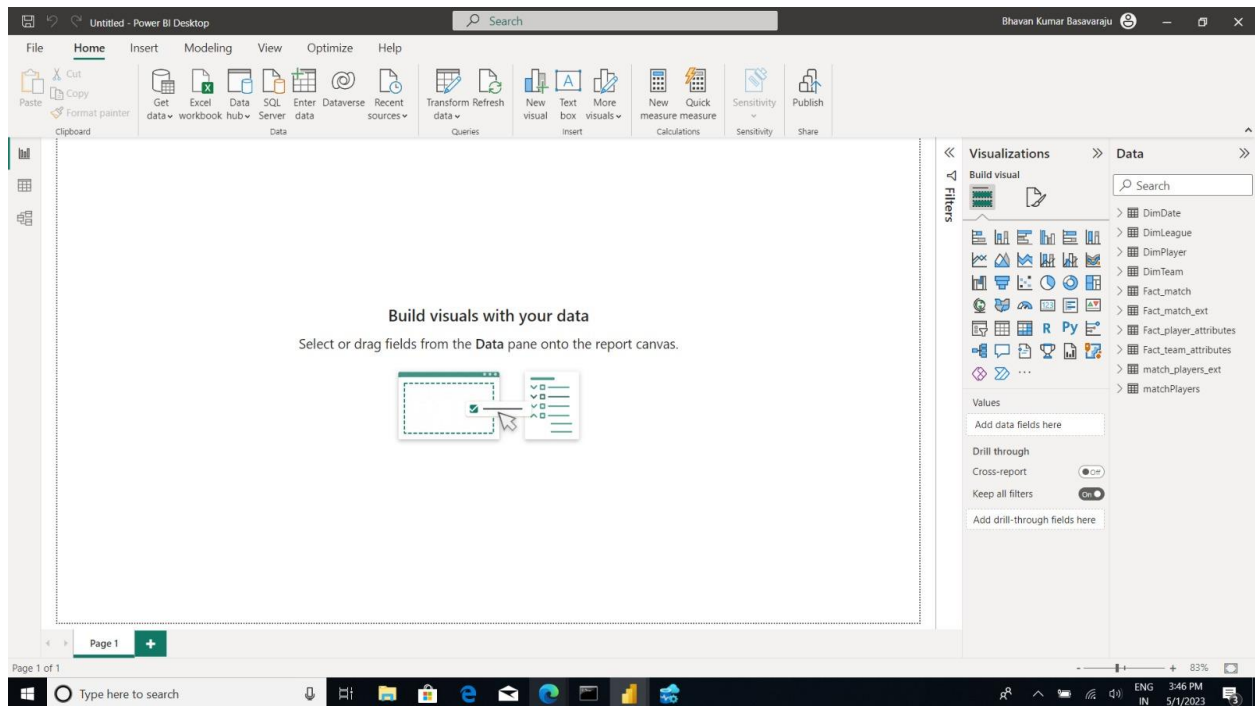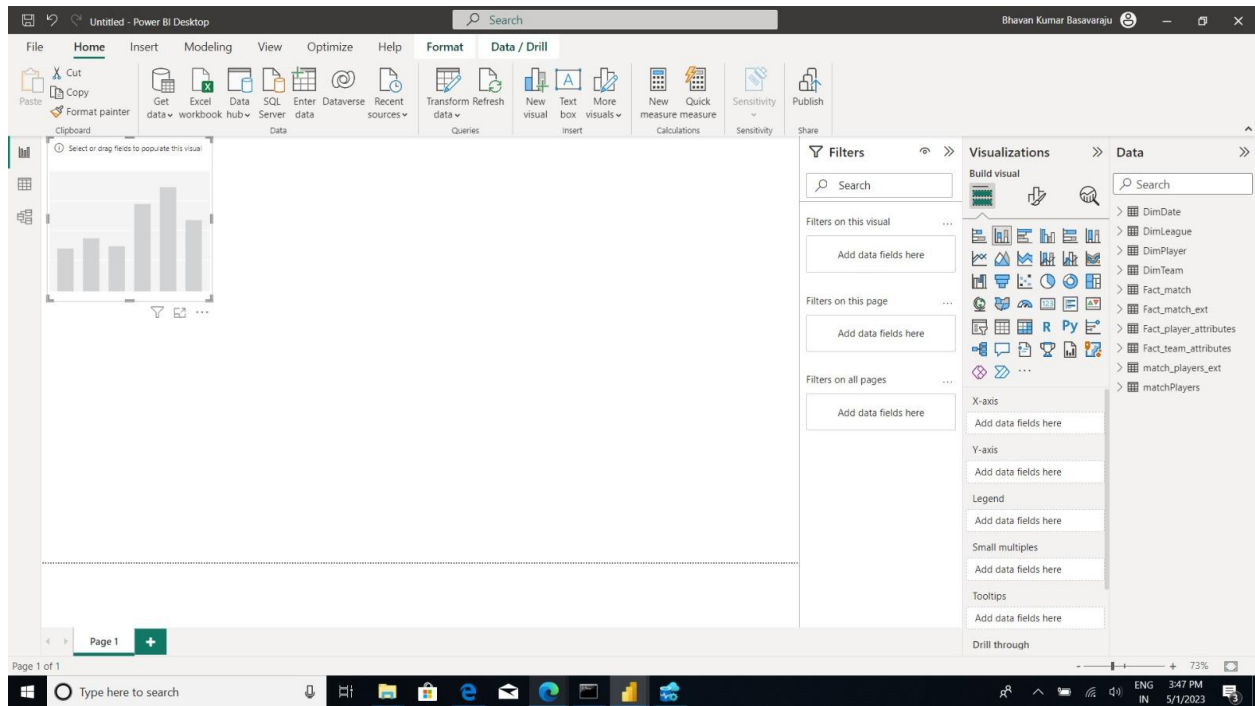
7. The following are the final results after implementing the visualizations using different graphs and visuals which are explained in the report document under 'visualizations'.
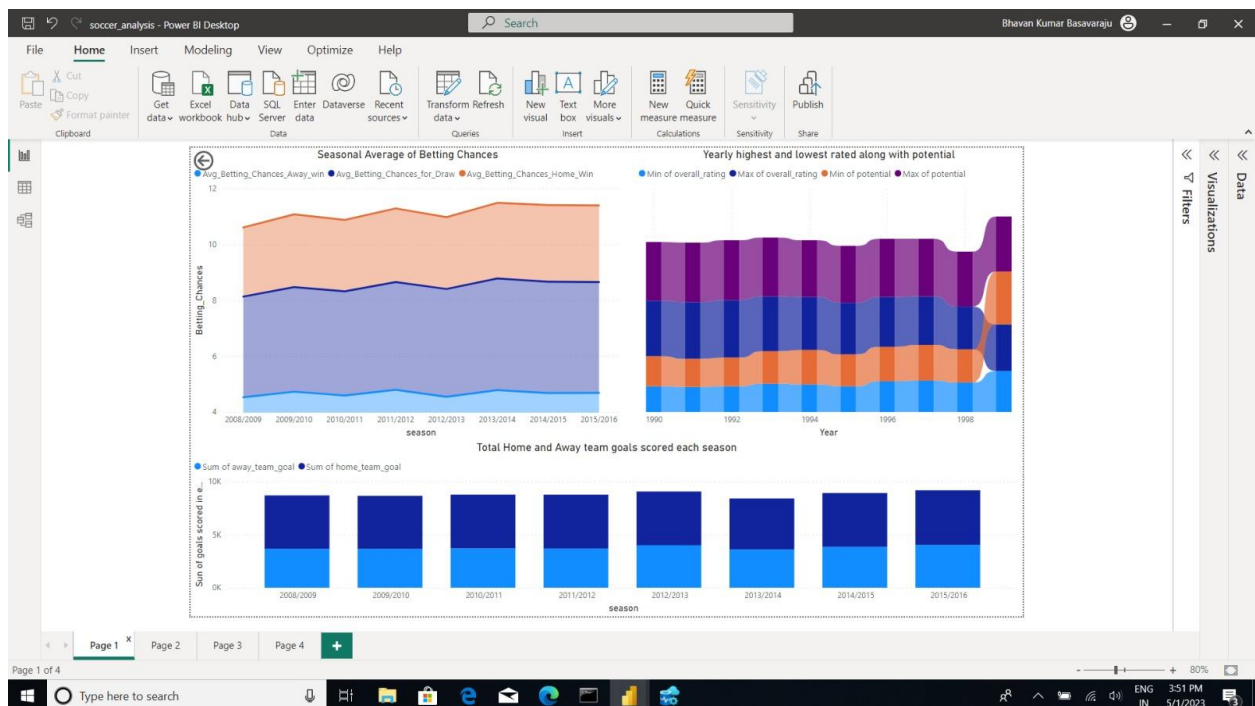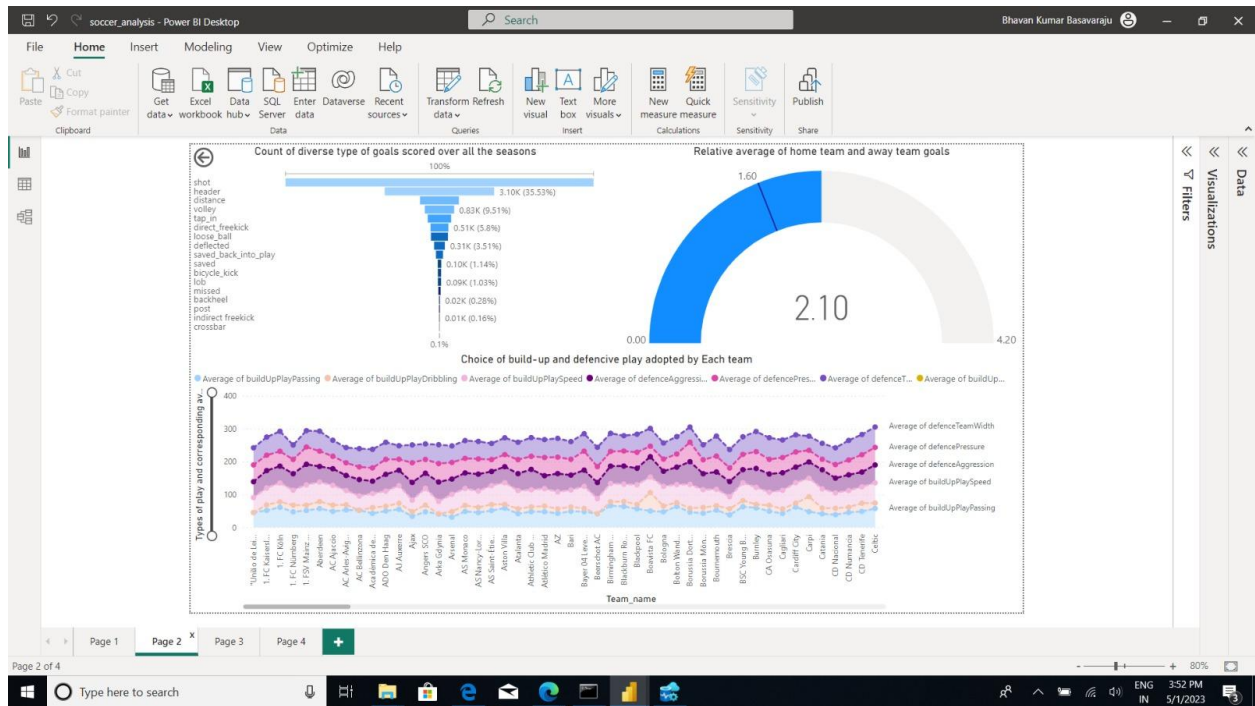
8. If the data needs to be secured from a query, build a query and run the query in the warehouse and then export the output of the query as '.csv file' which is a feature in Azure data studio. Then import the data into the power bi tool using the same step as by selecting the 'get data' and select on 'text/csv'.
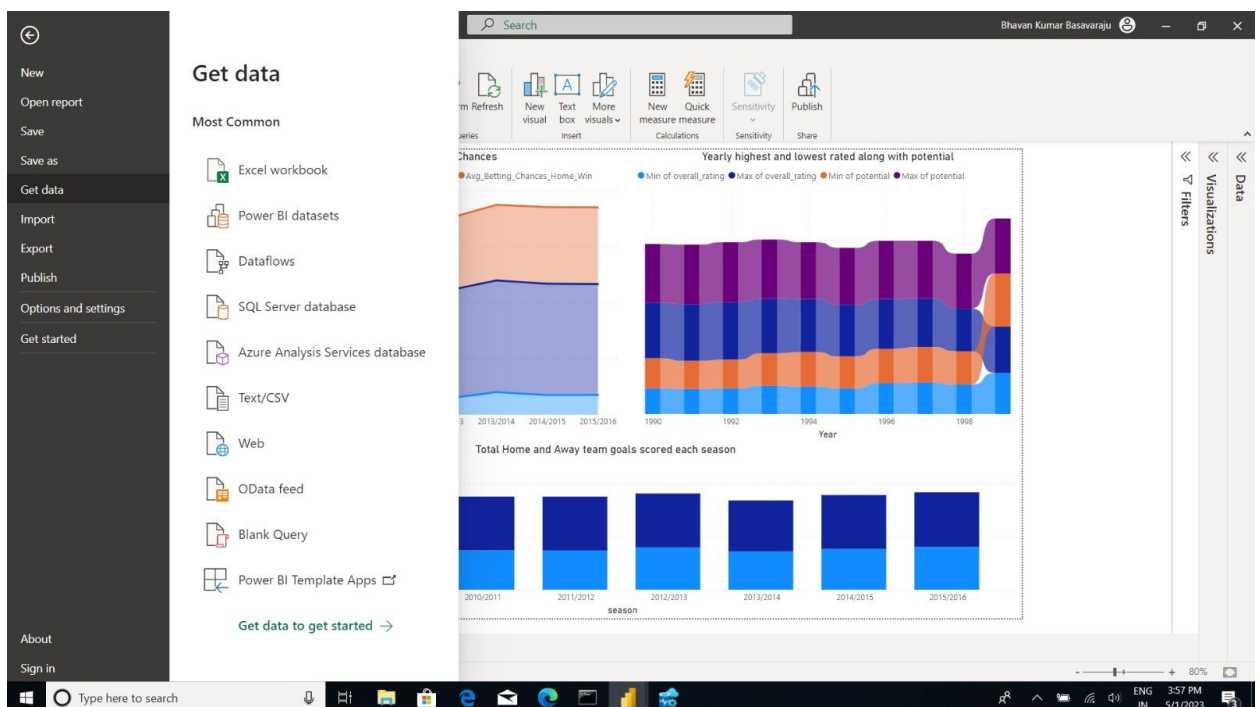
9. Finally, we can perform a variety of visualizations, querying and visual representation of the same queries and many more. The following is a model view of the data imported and the attributes inside the table entities.