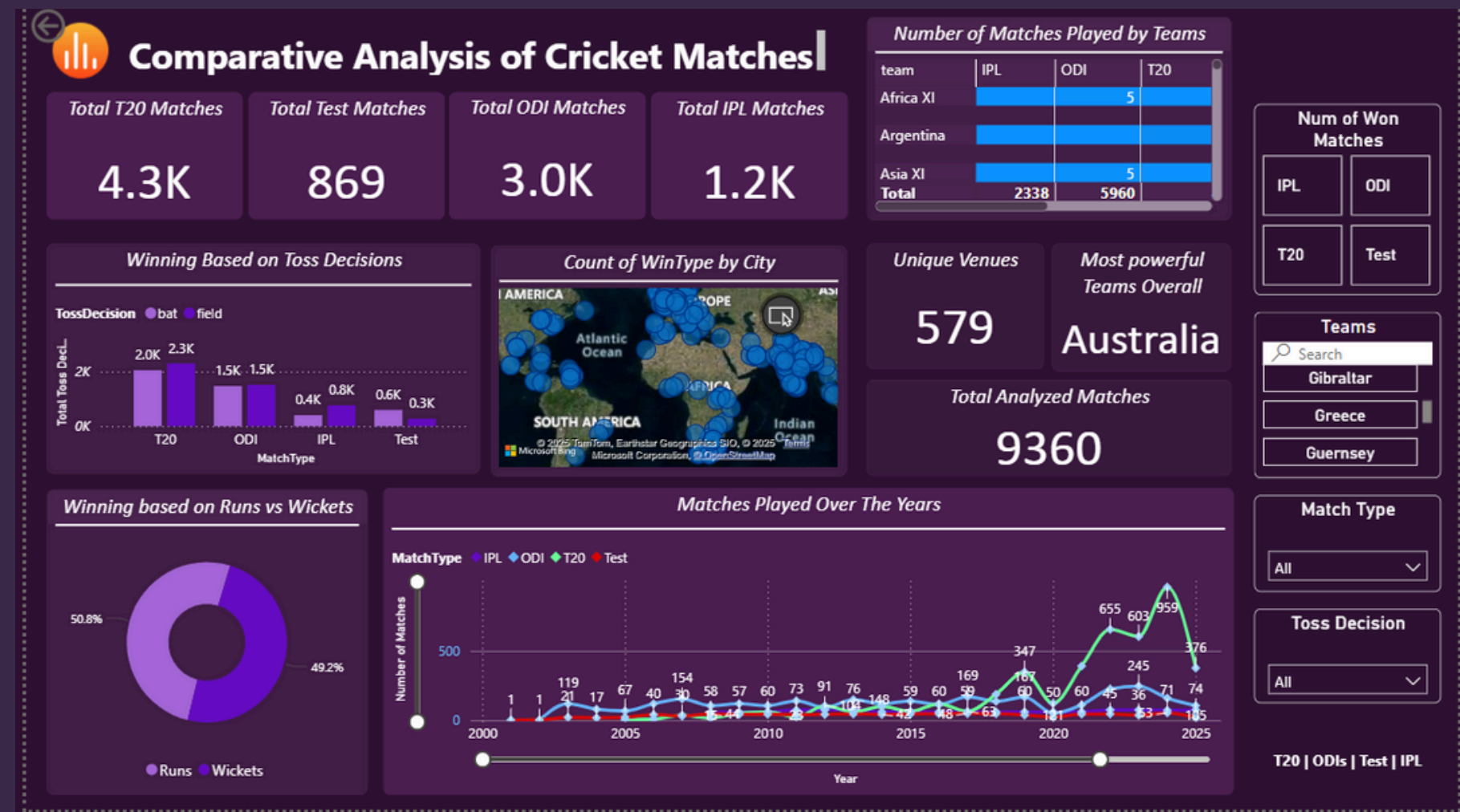


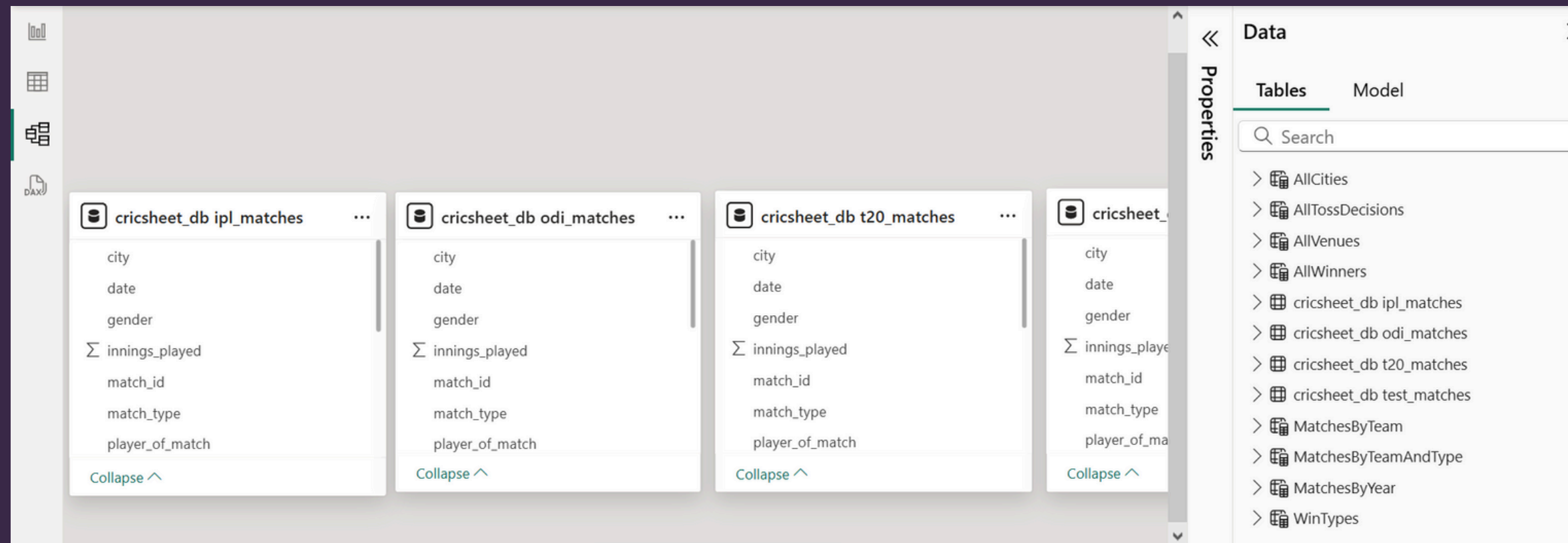
About

Comparative Analysis of Cricket Matches



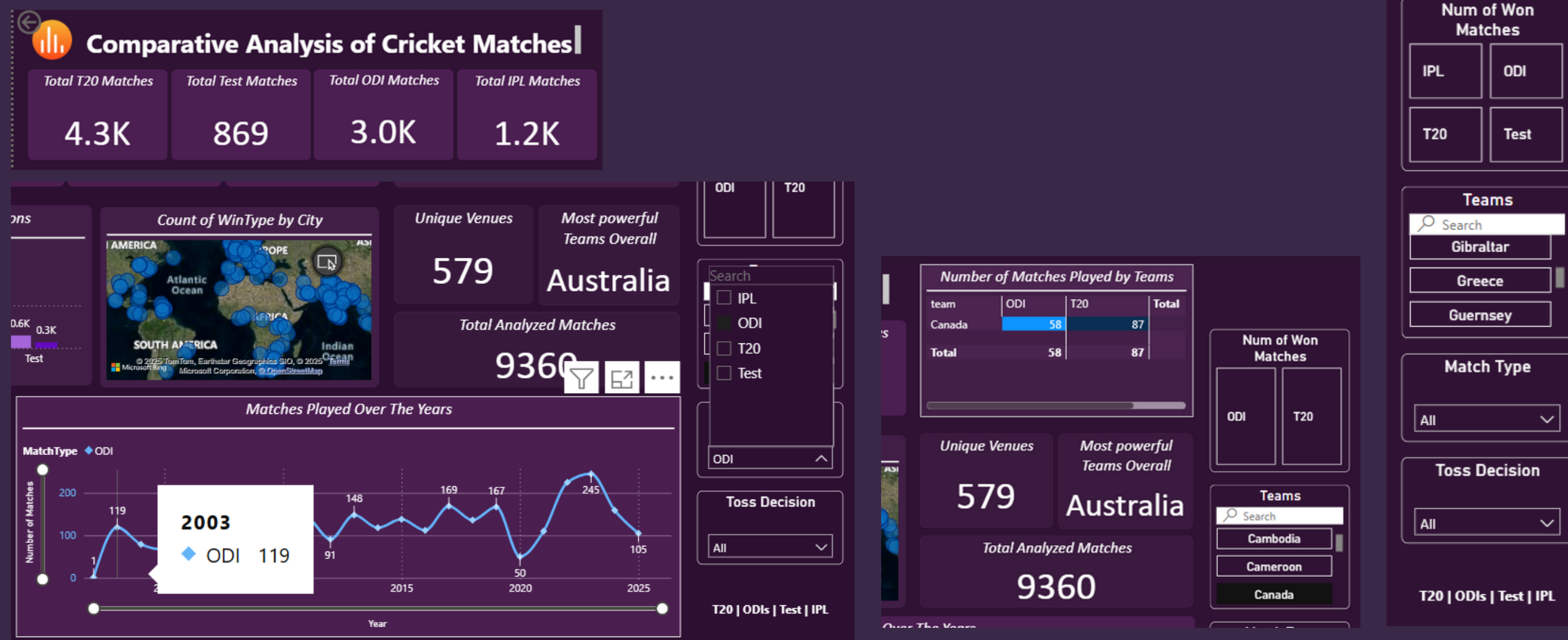
This project analyzes cricket data from CricSheet using Power BI to uncover key patterns and insights. The goal is to visualize and compare team performance, player stats, and match summaries across formats like IPL, Tests, ODIs, and T20s. Using Power BI's interactive visuals, complex cricket data becomes easier to explore and present.

Data Import & Preparation



The CricSheet data was first loaded and processed in Jupyter Notebook using Python for initial cleaning and structuring. The processed data was then inserted into MySQL, creating organized tables for matches, teams, and player stats. Finally, Power BI was connected directly to the MySQL database, importing these tables for further transformation, relationship building, and visualization setup.

Report Design & Pages



The Power BI report was divided into logical sections: an overview dashboard, labeled sections for team stats, player analysis, toss decisions, match data over the years, percentage of win or lose chart, and match summaries. Visuals include bar charts, donut charts, matrix, cards, map filtering section and line graphs. Interactive features like slicers and filters were added to help users explore data by team, player, or match type.

Insights & Measures

```
1 AllTossDecisions =
2 UNION (
3     SELECTCOLUMNS('cricsheet_db ipl_matches', "MatchType", "IPL", "TossDecision", 'cricsheet_db ipl_matches'
4         [toss_decision]),
5     SELECTCOLUMNS('cricsheet_db odi_matches', "MatchType", "ODI", "TossDecision", 'cricsheet_db odi_matches'
6         [toss_decision]),
7     SELECTCOLUMNS('cricsheet_db t20_matches', "MatchType", "T20", "TossDecision", 'cricsheet_db t20_matches'
8         [toss_decision]),
9     SELECTCOLUMNS('cricsheet_db test_matches', "MatchType", "Test", "TossDecision", 'cricsheet_db
10         test_matches'[toss_decision])
11 )
```

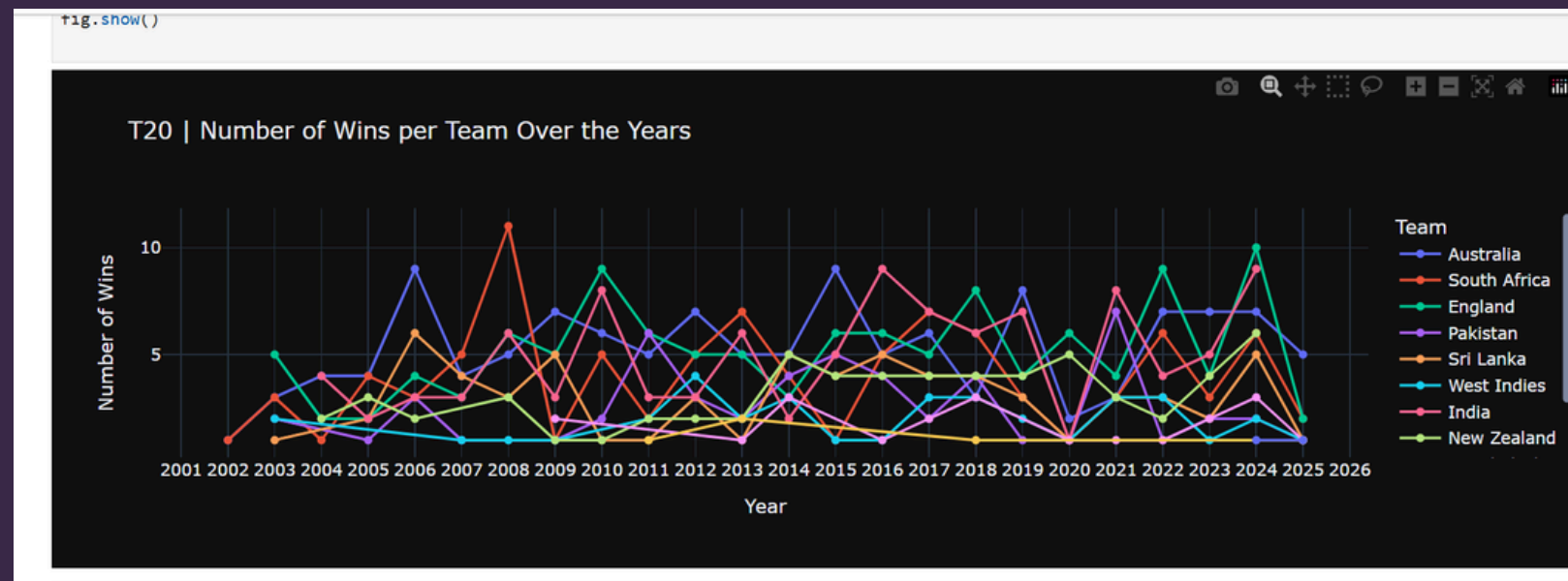
```
1 AllWinners =
2 UNION (
3     SELECTCOLUMNS('cricsheet_db ipl_matches', "Team", 'cricsheet_db ipl_matches'[winner]),
4     SELECTCOLUMNS('cricsheet_db odi_matches', "Team", 'cricsheet_db odi_matches'[winner]),
5     SELECTCOLUMNS('cricsheet_db t20_matches', "Team", 'cricsheet_db t20_matches'[winner]),
6     SELECTCOLUMNS('cricsheet_db test_matches', "Team", 'cricsheet_db test_matches'[winner])
7 )
```

The dashboards reveal key insights, such as team - wise top scorers and win percentages by team. Custom DAX measures were created to calculate totals, averages, and rankings dynamically. These insights help compare player performance and track trends across different match formats.

Uploading to Github

After building and testing the Jupyter Notebook scripts and MySQL integration, all project files were uploaded to GitHub for version control and sharing. Each commit was documented with clear messages to track changes. The repository also includes a well-structured README.md file explaining the project workflow, dependencies, and instructions to set up the database and run the analysis. This ensures the project remains organized, transparent, and easy to collaborate on or extend in the future.

Matplotlib



As part of the analysis, several visualizations were created in Matplotlib within Jupyter Notebook. These include bar charts showing the number of matches by city and line graphs to track player or team performance over time. These static visuals provide quick, publication-ready insights and highlighting specific trends in the cricket data.



[Github Repo Link](#)

Thank You!

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