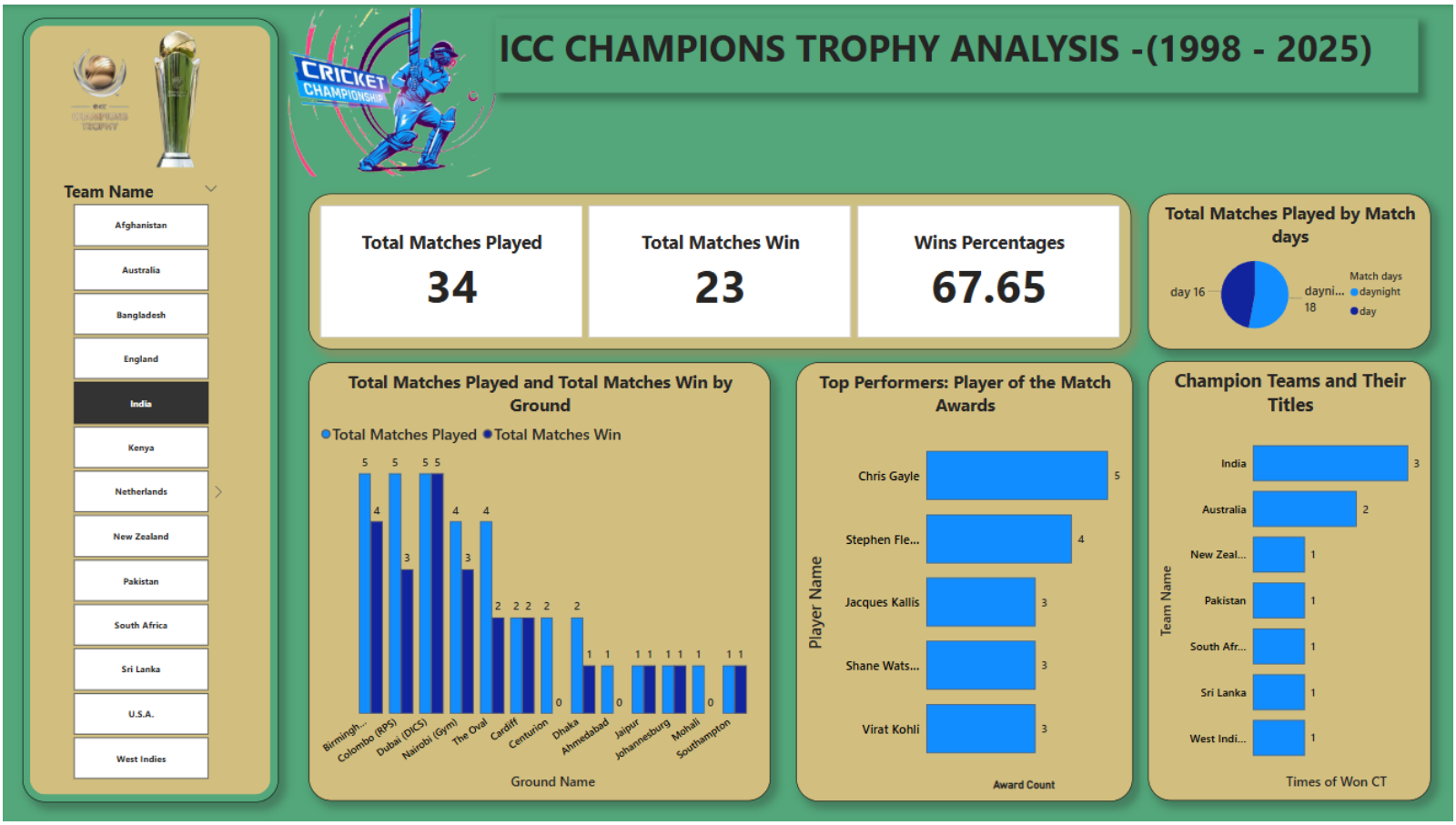
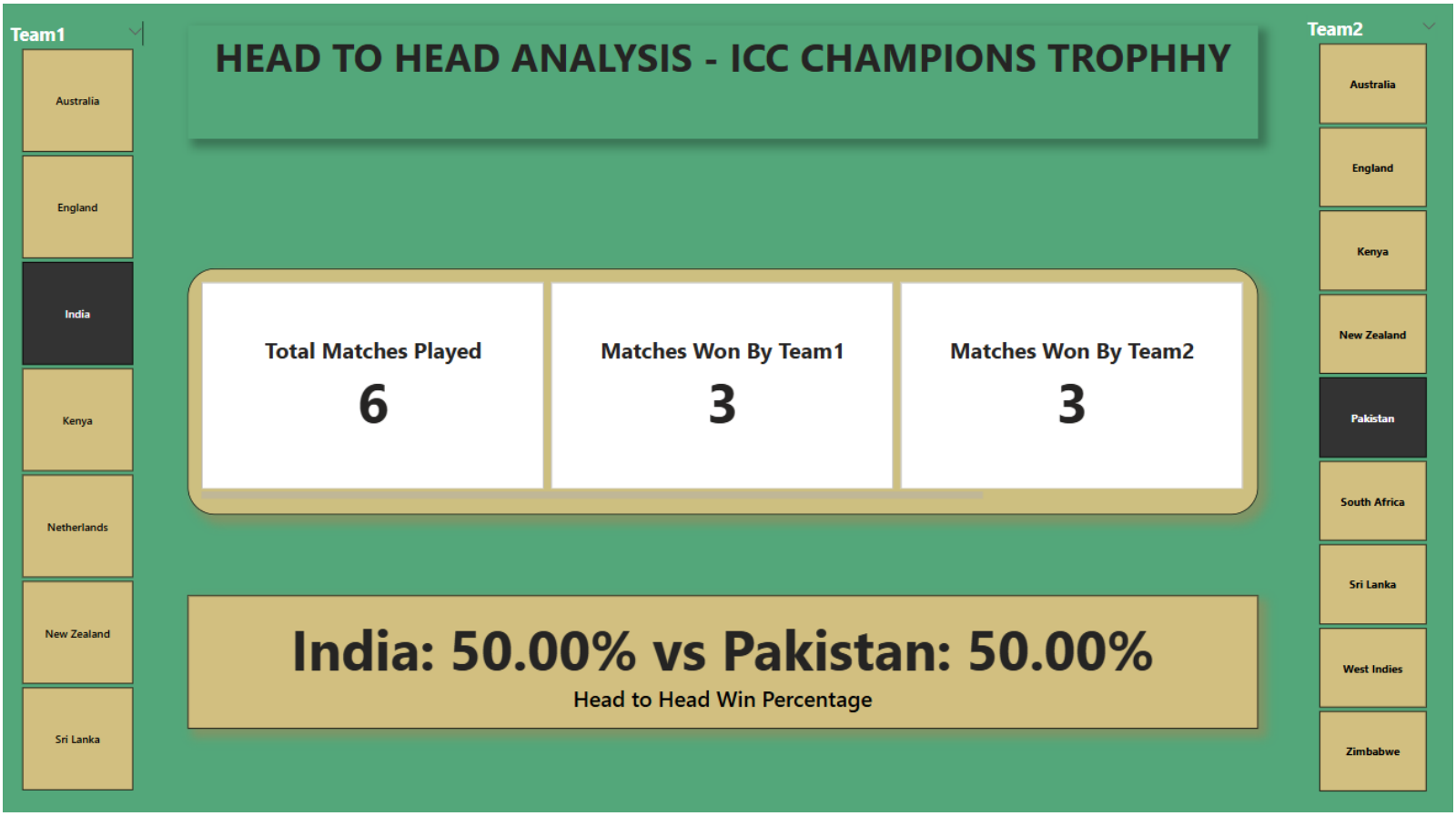
ICC CHAMPIONS TROPHY ANLYSIS (1998-2025)





ICC Champions Trophy Analysis (1998-2025) - Power BI Project Documentation

1. Project Overview

This project is an **internship capstone project** that analyzes the ICC Champions Trophy from **1998 to 2025** using **Power BI**. The objective is to visualize key performance indicators, team statistics, and historical trends to gain deeper insights into team performances, player contributions, and tournament results.

2. Datasets Used

The project utilizes three datasets:

A. Results Dataset

Contains details about match outcomes, teams, players, and performance metrics. Key columns include:

- **Team1, Team2** - Competing teams
- **Toss** - Toss winner and decision
- **Match Days** - Day, day/night classification
- **Winner** - Winning team
- **Player of the Match** - Best performer
- **Margin** - Match result margin
- **Ground** - Venue of the match
- **Match Date** - Date of the match

- **ODI International Match Number**
- **Ranking Metrics** - Team batting and bowling rankings
- **Total CT Participation & Wins** - Teams' historical performance in ICC Champions Trophy
- **Win/Loss Ratio** - Head-to-head statistics

B. Players Dataset

Contains details of players participating in different editions of the ICC Champions Trophy. Key columns include:

- **Team** - Player's team
- **Year** - Tournament year
- **Player Name** - Name of the player

C. CT_Won_Year_Wise Dataset

Tracks the winning teams across different editions of the ICC Champions Trophy. Key columns include:

- **Year** - Tournament year
- **Team Won** - Winning team

3. Power BI Dashboard Design

The dashboard includes multiple pages with various **visualizations**, such as:

- **KPI Cards**: Total matches played, total wins, and win percentage.
- **Slicers**: Team selection to filter insights.
- **Bar Charts**: Match performance by ground, top performers, champion teams.
- **Pie Charts**: Matches played by match type (day/day-night).

4. DAX Measures & Calculations

Several **DAX measures** have been created to compute key insights:

A. Match Performance Measures

1. **Wons Team1 & Wons Team2** - Counts how many times a team has won the ICC Champions Trophy.
2. **Matches Won by Team2** - Number of times Team2 won against Team1.
3. **Matches Played as Team1 & Team2** - Total matches played by a team in either role.
4. **Total Matches Won & Played** - Aggregate match results for selected teams.
5. **Win Percentage** - Percentage of wins calculated as:

Wins Percentages = [Total Matches Win] / [Total Matches Played] * 100

6. **Head-to-Head Win Percentage** - Computes team win ratios against specific opponents.
7. **Matches with No Result** - Counts abandoned matches.
8. **Total Matches Played by a Team** - Computes all matches played.

B. ICC Champions Trophy History Measures

9. **Team CT Participation** - Counts the number of times a team has participated in the ICC Champions Trophy.
10. **Team CT Titles Won** - Retrieves the number of times a team has won the tournament.

C. Additional Computed Columns

11. **Team2 W/L Ratio Over Team1** - Computes the inverse win/loss ratio:
12. Team2 W/L ratio Over Team1 = IF(

```
    AND(NOT(ISBLANK(results[Team1 W/L ratio over Team2])), results[Team1 W/L ratio over Team2] <> 0),
        1 / results[Team1 W/L ratio over Team2],
        BLANK()
)
```

5. Insights & Findings

- **India has won the most titles (3) as of 2025, followed by Australia (2).**
- **Chris Gayle holds the record for most Player of the Match awards (5).**
- **Teams with higher batting and bowling rankings tend to perform better in key matches.**
- **Matches are almost equally distributed between day and day/night formats.**

6. Conclusion & Future Enhancements

This Power BI project provides a **comprehensive analysis** of the ICC Champions Trophy, offering valuable insights into team performances and player contributions. Future enhancements could include:

- Adding **player-wise performance analysis** (e.g., runs, wickets, average).
- Incorporating **real-time updates** for the latest tournament.
- Enhancing UI with **dynamic tooltips** and better interactivity.

This documentation serves as a guide to understanding the project structure, datasets, DAX measures, and insights derived from the analysis. **Further refinements can be made based on stakeholder feedback.**