IPL ANALYSIS DASHBOARD

-POWER BI

(DATA-DRIVEN INSIGHTS FOR TEAM & PLAYER PERFORMANCE)

OBJECTIVE:

- Analyze IPL match trends, player performance, and team statistics.
- Build interactive power BI dashboard for data-driven insights.
- Improve decision-making through historical and predictive analysis.

DATA COLLECTION & SOURCES:

- Data Sources: IPL Official datasets, Kaggle, CSV files.
- Collect structured data, including match scores, player stats, venues, and team details.
- Ensure data includes season-wise historical records for comprehensive analysis.

DATA STORAGE & PREPOCESSING:

- Store data in a relational database (Oracle, SQL Server), Power BI data model
- Perform data cleaning: Handling missing values, remove duplicates, and standardizing formats.
- Transform data(e.g data-time formatting, categorization of player roles)
- Ensure data consistency across multiple seasons.

DATA MODELING IN POWER BI

- Define relationships between tables(e.g., Matches, player, Teams, Venues, Points table)
- Create calculated columns and measures using DAX (Data Analysis Expressions)
- Implement data hierarchies (Season-> Match->Player Performance)

DATA VISUALIZATION & DASHBOARD:

Develop interactive dashboards for different analytics views:

- Match Analysis: Results, Winning, Margins, head-to-head stats.
- Player performance: Runs, wickets, strike rates, economy rates.
- Team Performance: Win/Loss ratio, average scores, from trends
- Venue Insights: Best performing teams/ players at specific venues.
- Season Trends: Comparisons across multiple IPL seasons.

REPORT OPTIMIZATION & PERFORMANCE TUNNING

- Optimize Power BI reports using measures, aggregations, and indexing in SQL.
- Improve visualization performance by limiting visuals per page and using composite models.