

IPL Data Analysis Dashboard Creation Using Power BI

Key Features:

- Requirement Gathering: Gathering and understanding the needs and expectations of stakeholders to define project requirements.
- Stakeholders in Projects: Identifying and engaging with individuals or groups who have an interest or influence in the project's outcomes.
- Data Modeling: Structuring and organizing data to create a logical representation of the relationships and patterns within the dataset.
- Importing data in PostgreSQL: Transferring data from external sources into a PostgreSQL database for storage and analysis.
- Connecting Power BI to Database: Establishing a connection between Power BI, a business intelligence tool, and a database to retrieve and visualize data.
- Data Cleaning: Removing or correcting errors, inconsistencies, and redundancies in the data to improve its quality and reliability.
- Data Processing: Transforming and manipulating data to extract valuable insights and prepare it for analysis.
- Data Modeling: Designing and implementing a data model that defines how data elements relate to each other and support the analysis and reporting needs of the project.
- Data Visualization: Presenting data in a visual format, such as charts, graphs, or maps, to facilitate understanding and interpretation.
- Creating Dashboard: Building a user-friendly interface that displays key metrics, visualizations, and interactive elements for monitoring and analyzing data.
- Generating Insights: Extracting meaningful and actionable information from data analysis to inform decision-making, identify trends, or discover patterns.

Aim:

Develop an IPL Dashboard for season 2008-2022 to have detail insights on below problem statement:

- Find the Title Winner, Orange Cap Winner, Purple Cap Winner, Tournament 6's and 4's for the respective seasons in IPL.
- Develop IPL Batting and Bowling Stats and add a filter where users can select the batsman and bowler to see their statistics.
- Winning percentage based on toss' decision.
- Total wins by a team in a season.
- Matches won based on the result type.

Stakeholders of the Project:

- BCCI
- Franchise/Team Holders
- Team Management
- Coaches
- Players
- Media
- Public

Power BI Functionalities Used:

- How to connect Power BI to PostgreSQL.
- Data Modelling with three tables.
- Data cleaning with Power Query.
- Time Intelligence Function
- Creating KPI's
- Dax Queries
- Creating and Formatting charts.
- Different Dax functions like Calculate, Sum, Sumx, Allselected, Values, Selectedvalues, Return, Concatenate, Divide etc.
- Creating different shape and formatting.
- Generating Insights and Charts.



