

IPL Data Analysis (Group 7)

PROJECT PRESENTATION

DS5003:DE Project

Dr.Mrinal Das

Team Members:

ANKITA K (142302002)

VISHAL SINGH (142302009)

ABHISHEK S MAYYA (142302014)

Details of Pre-processing

Data Examination:

We addressed missing data in certain columns that are important, such as *City-(Sharjah Cricket stadium, Dubai International Cricket Stadium)*, *Season(2007/08=2008)*, *Team names(Name correction)*, *Venue(Name Correction)*

Feature Engineering:

- We merged certain columns like:

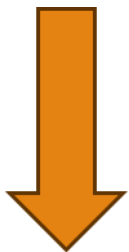
Kind + Fielders involved = caught by R Sai Kishore

wonby + Margin = won by 7 wickets

- We will Generate new features as needed, such as calculating run rates, over-by-over statistics, or player performance metrics. Aggregate data at various levels, such as match-level or player-level statistics to derive meaningful insights.

WonBy	Margin	method	Player_of_Match	Team1Players	Team2Players	Umpire1	Umpire2	result
Wickets	7.0	Regular Match	HH Pandya	['YBK Jaiswal', 'JC Buttler', 'SV Samson', 'D ...	['WP Saha', 'Shubman Gill', 'MS Wade', 'HH Pan...	CB Gaffaney	Nitin Menon	Won by 7.0 wickets
Wickets	7.0	Regular Match	JC Buttler	['V Kohli', 'F du Plessis', 'RM Patidar', 'GJ ...	['YBK Jaiswal', 'JC Buttler', 'SV Samson', 'D ...	CB Gaffaney	Nitin Menon	Won by 7.0 wickets
Runs	14.0	Regular Match	RM Patidar	['V Kohli', 'F du Plessis', 'RM Patidar', 'GJ ...	['Q de Kock', 'KL Rahul', 'M Vohra', 'DJ Hooda...	J Madanagopal	MA Gough	Won by 14.0 runs

Rajiv Gandhi International Stadium, Uppal
MA Chidambaram Stadium, Chepauk
Sawai Mansingh Stadium
Dubai International Cricket Stadium
Punjab Cricket Association Stadium, Mohali
Wankhede Stadium, Mumbai



MA Chidambaram Stadium
Rajiv Gandhi International Stadium
Punjab Cricket Association Stadium
Sawai Mansingh Stadium
Dubai International Cricket Stadium
Dr DY Patil Sports Academy

	City	Venue
134	NaN	Dubai International Cricket Stadium
137	NaN	Dubai International Cricket Stadium
138	NaN	Sharjah Cricket Stadium
140	NaN	Dubai International Cricket Stadium
142	NaN	Dubai International Cricket Stadium



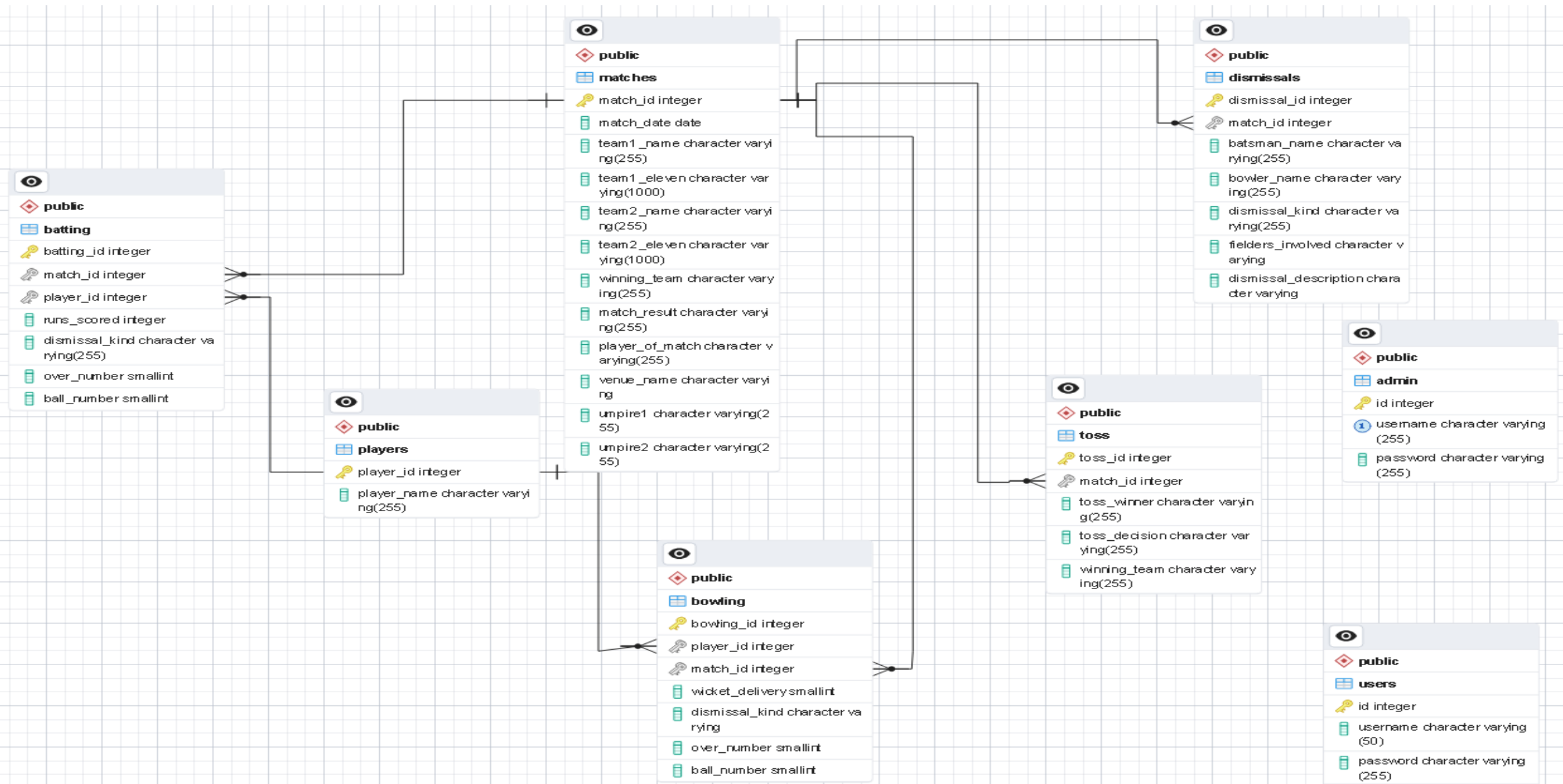
```
df2 = df2.replace('Rising Pune Supergiants','Rising Pune Supergiant')
df2 = df2.replace('Delhi Daredevils','Delhi Capitals')
df2 = df2.replace('Kings XI Punjab','Punjab Kings')
```

Season	
2007/08	58
2009	57
2009/10	60
2011	73
2012	74
2013	76
2014	60
2015	59
2016	60
2017	59
2018	60
2019	60
2020/21	60
2021	60
2022	74
Name: ID, dtype: int64	



```
array(['2022', '2021', '2020', '2019', '2018', '2017', '2016', '2015',
       '2014', '2013', '2012', '2011', '2010', '2009', '2008'],
      dtype=object)
```

Database Schema



Dashboard

localhost:8501

Deploy

IPL-Data Insights(2008-2022)!!

Enter New Username:

Enter New Password:

Confirm Password:

Register Now

Already have an account? Login Here:

Enter Username:

Enter Password:

Role

User

Login Now

PakWalls.com

IPL Dashboard(2008-22)

Select Option

Select any Question



Select any Question

Batting Records

Bowling Records

Logout

Welcome to exciting journey of unraveling the mysteries of cricket through data!

Explore the thrilling world of cricket as we delve into the intricacies of the sport through insightful data analysis. Welcome to the IPL Dashboard (2008-22), your gateway to uncovering the secrets behind every match, player, and venue. Embark on an exciting journey through the statistics that define the essence of cricket's premier league



IPL Dashboard(2008-22)

Select Option

Batting Records

▼

Select Question

Select any Question

▼

Explore the thrilling world of cricket as we delve into the intricacies of the sport through insightful data analysis. Welcome to the IPL Dashboard (2008-22), your gateway to uncovering the secrets behind every match, player, and venue. Embark on an exciting journey through the statistics that define the essence of cricket's premier league

Select Year

All Years

▼

Select Number of Entries

20

20

100

All Batting Records (All Years)

	Player Name	Total Runs
0	V Kohli	6634
1	S Dhawan	6244
2	DA Warner	5883
3	RG Sharma	5881

IPL Dashboard(2008-22)

Select Option

Select any Question



Select Question

Select any Question



Select any Question

1.Team's Winning Venues

2.Batsmen's Performance in a Match

3.Bowlers' Performance in a Match

4.Top 10 Batsmen in a Year.

5.Top 10 Bowlers in a Year

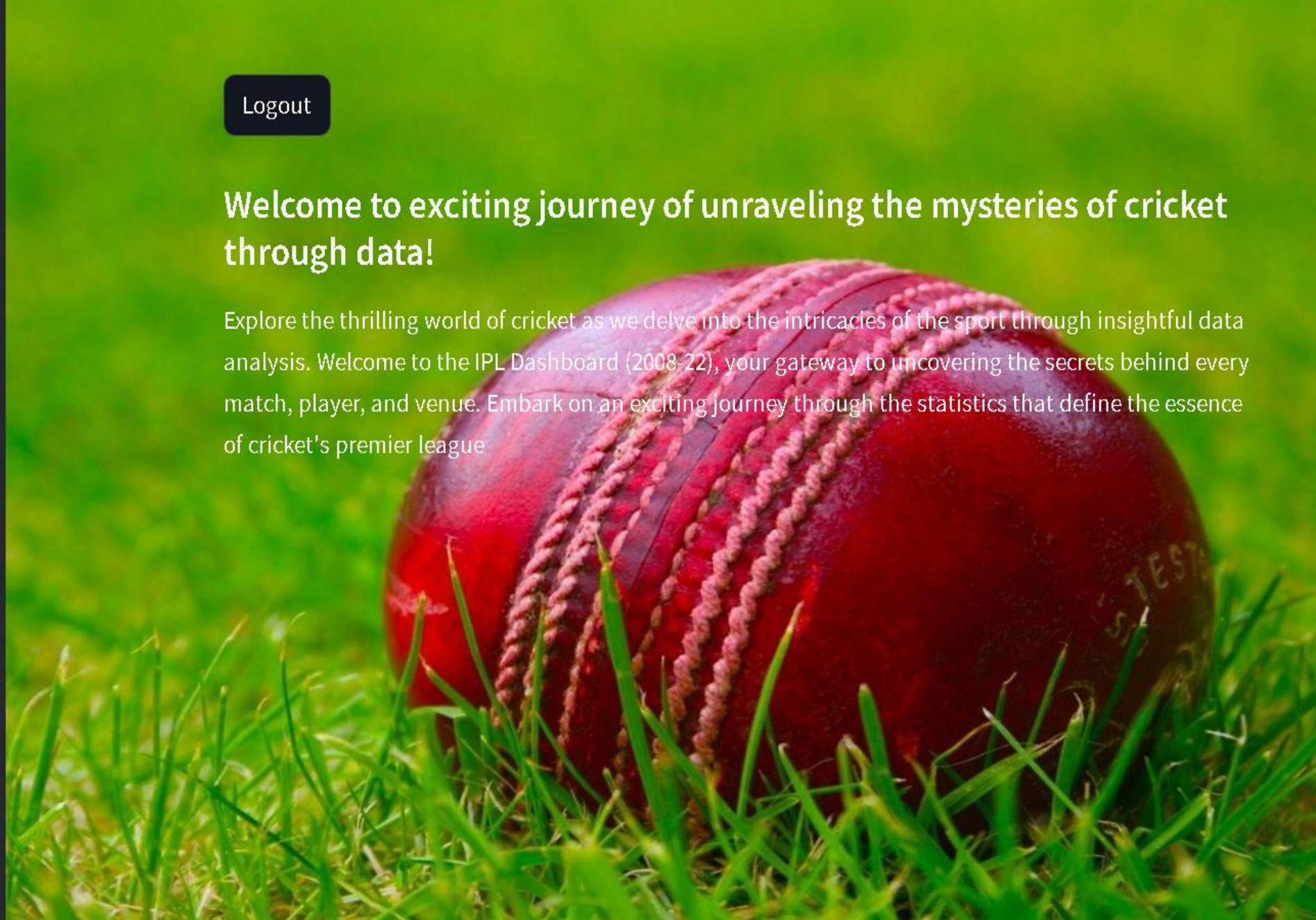
6.Toss Impact on Match Results

7.Batsman vs. Bowler Key Metrics

Logout

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IPL Dashboard(2008-22)

Select Option

Select any Question

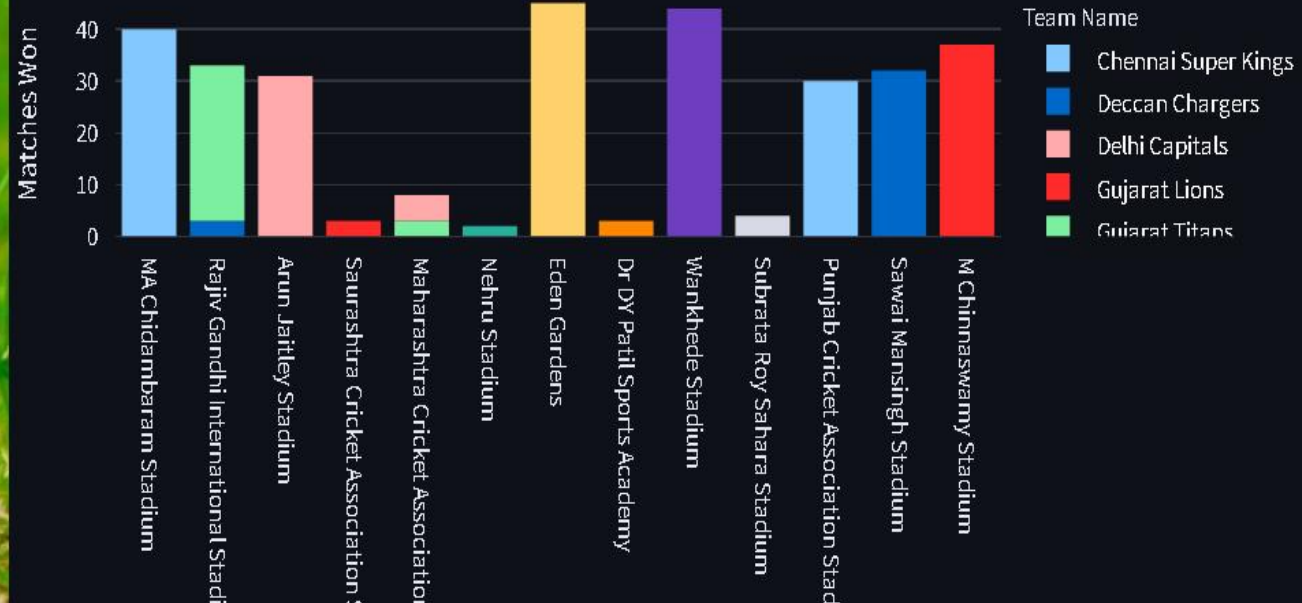
Select Question

1.Team's Winning Venues

Explore the thrilling world of cricket as we delve into the intricacies of the sport through insightful data analysis. Welcome to the IPL Dashboard (2008-22), your gateway to uncovering the secrets behind every match, player, and venue. Embark on an exciting journey through the statistics that define the essence of cricket's premier league

Team Winning Venues

Stadiums Where Each Team Has Won the Maximum Matches



IPL Dashboard(2008-22)

Select Option

Select any Question

Select Question

5.Top 10 Bowlers in a Year

cricket's premier league

Top 10 Most Wicket Taker(Bowler) in a Year

Select Year :

2008

IN 2008



Tools and Libraries

- Pre-processing in google colab: Pandas, NumPy
- Database Management: PostgreSQL, VS code, psycopg2 to interaction of python application with postgresql
- Visualization: Matplotlib, Seaborn, plotly for creating interactive charts and graphs.
- Dashboard: Streamlit for creating a dashboard

INDIVIDUAL CONTRIBUTIONS

1.ANKITA K

- Responsible for designing the dashboard, login/register pages, and associated backend code.
- Handling SQL queries and contributing to visualization aspects

2.VISHAL SINGH

- Focus on preprocessing the dataset and some SQL queries.
- Responsible for visualizing the queries in the dashboard.

3.ABHISHEK S MAYYA

- Involved in designing the database and crafting SQL queries.
- Takes charge of the Batting and Bowling Record section in the dashboard.

Thank You