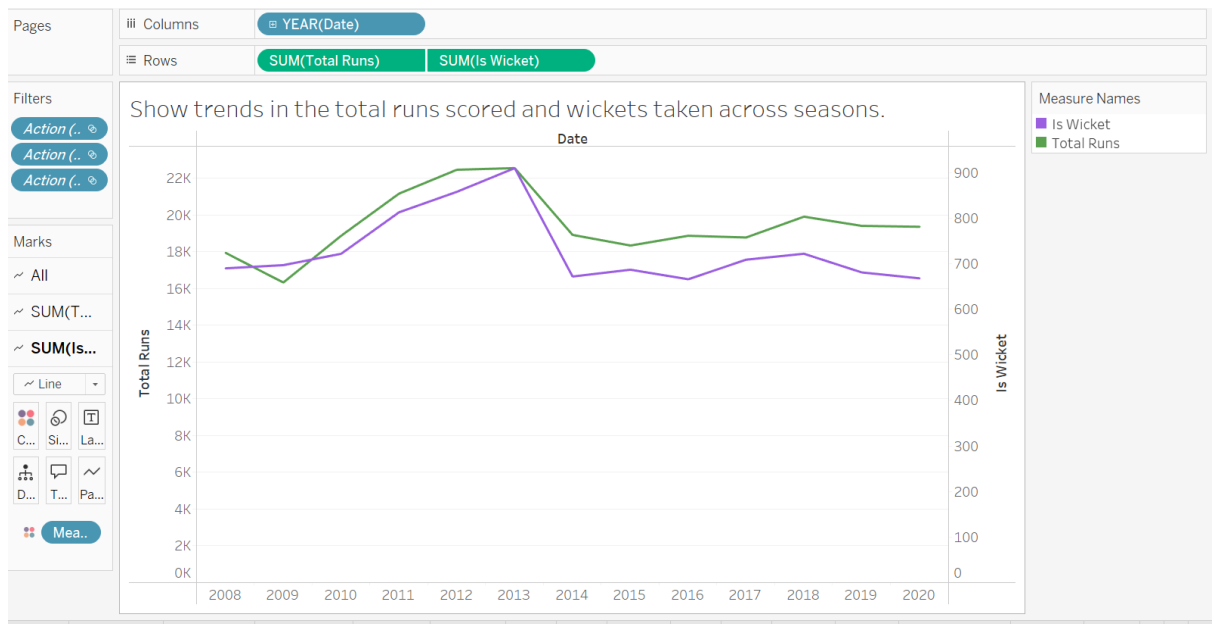


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## ETE 3 Practical Component

### 1. Line Chart



#### Interpretation:

- The chart highlights the trend of total runs scored and wickets taken across IPL seasons (2008-2020). Runs peaked around 2013 and 2016, indicating high-scoring seasons, while wickets show a consistent pattern with slight declines after 2015.
- The comparison reveals that despite fluctuations in runs scored, the number of wickets taken has shown relative consistency, indicating balanced performances by bowlers throughout the seasons.

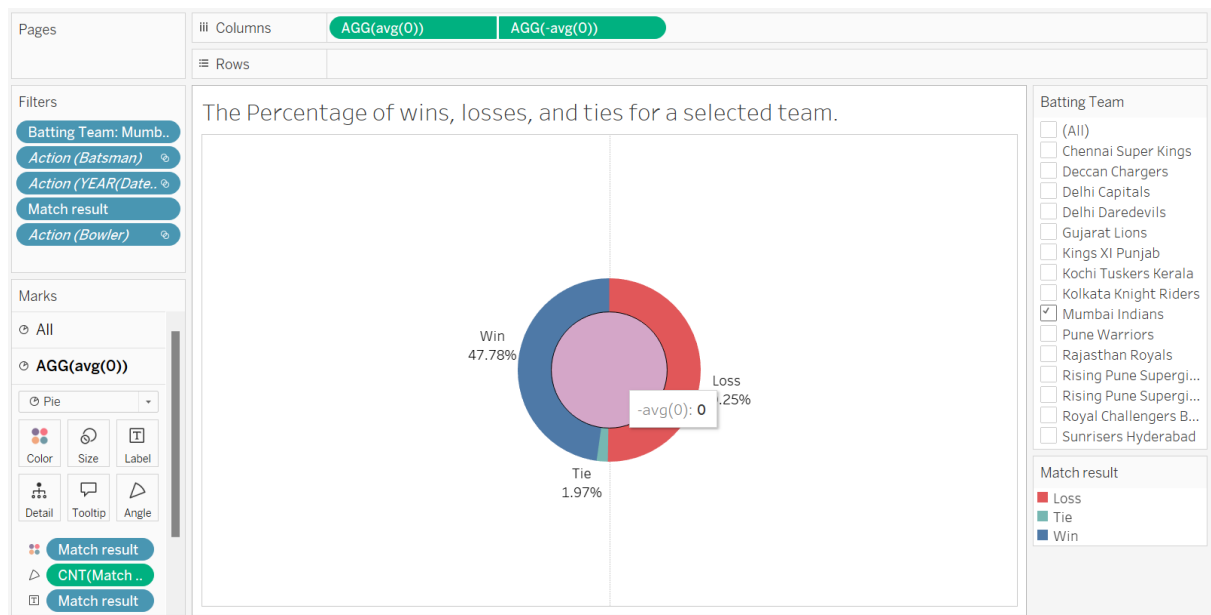
### 2. Bar Chart



## Interpretation:

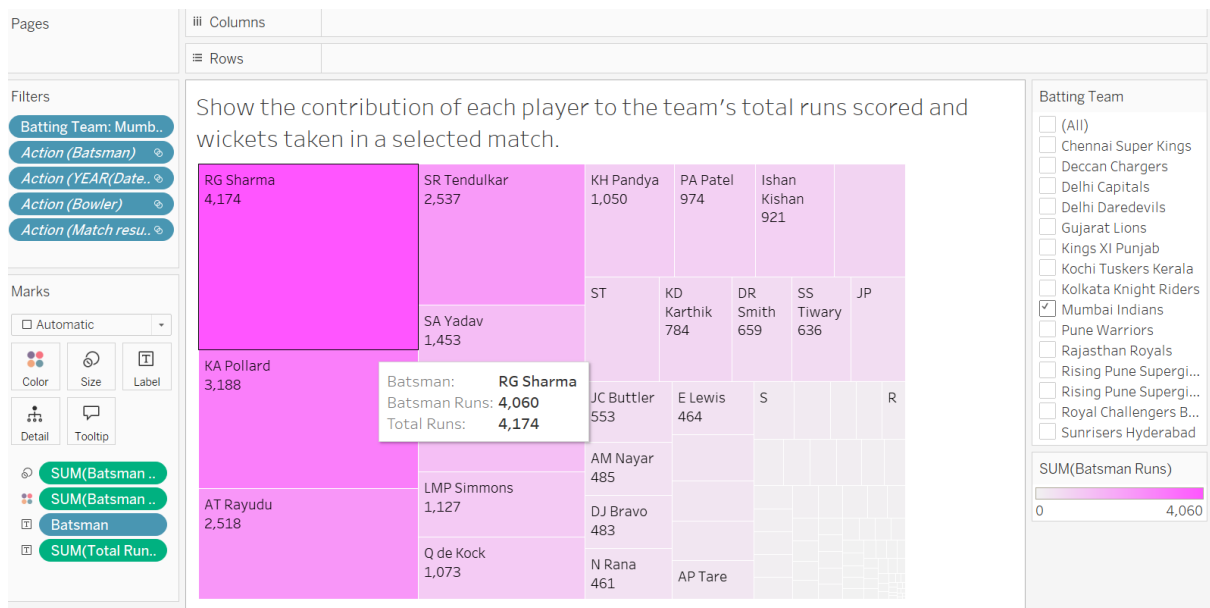
- This bar chart showcases the top 5 batsmen with the highest total runs across all IPL seasons, with Virat Kohli leading at 6,081 runs, followed by SK Raina and DA Warner.
- The consistent performance of these players highlights their significant contribution to their respective teams and the tournament over the years.

### 3 Donut Chart



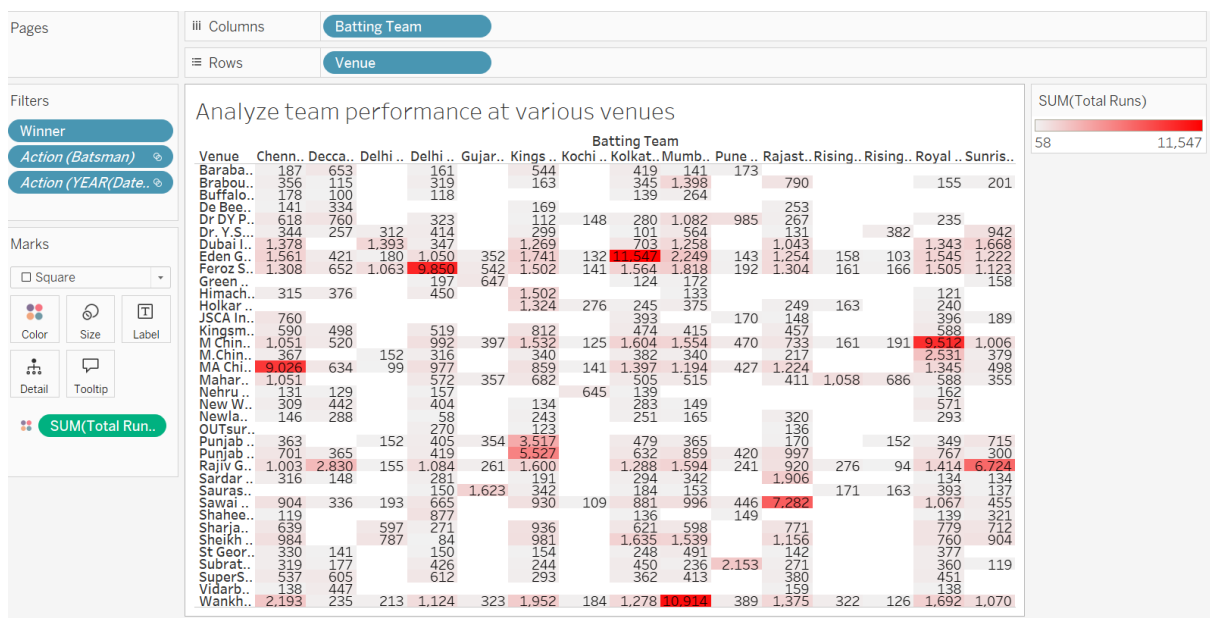
- The donut chart shows the percentage of wins, losses, and ties for a selected team, with a larger portion indicating the team's dominant result (e.g., wins).
- It highlights the team's performance trend, showing whether they have been more successful, faced frequent losses, or had ties in matches over the selected period.

### 4. Tree Map



1. The tree map shows each player's contribution to the team's total runs and wickets in a selected match, with larger blocks indicating greater contributions.
2. It highlights key players who played a significant role, while smaller blocks represent players with minimal impact on the match's overall outcome.

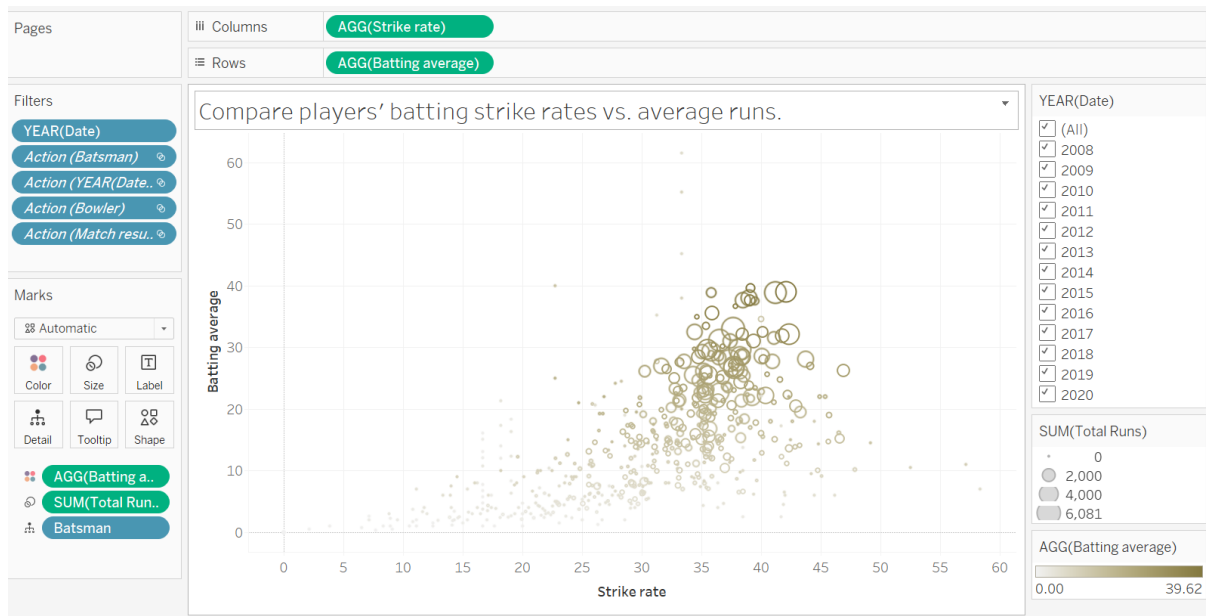
## 5, Heatmap



- The heatmap visualizes team performance at different venues, with color intensity showing total runs scored or matches won at each stadium.

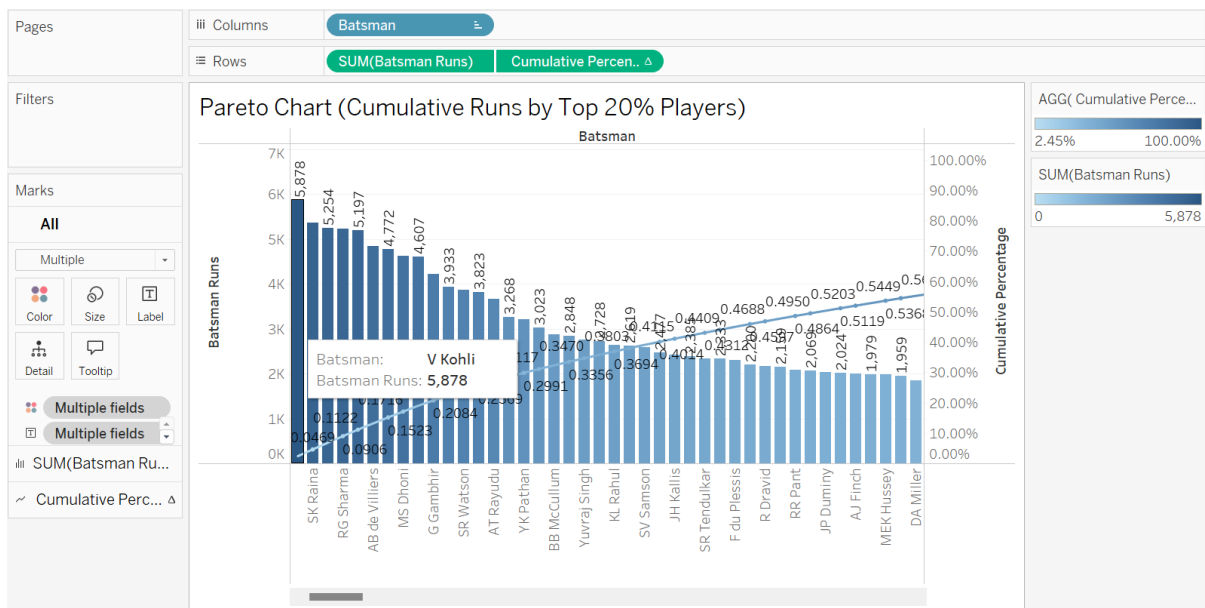
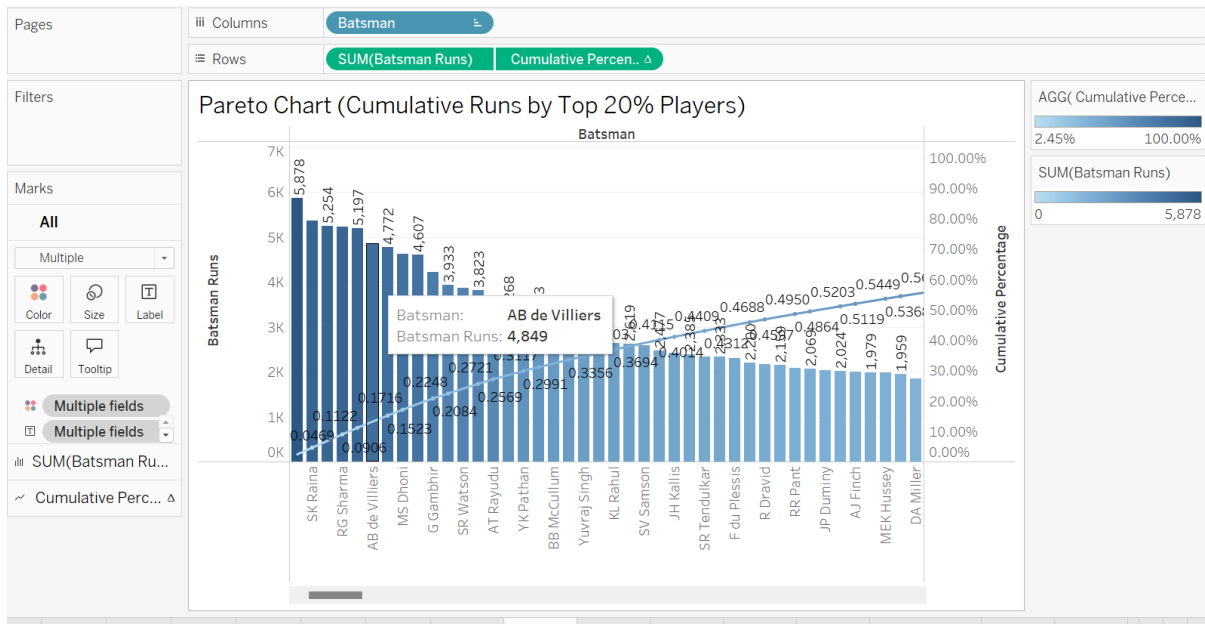
- Darker shades represent higher performance (more runs or wins), helping identify the venues where the team has had the most success or struggled the most

## 6. Scatter Plot



- The scatter plot compares players' batting strike rates with their average runs, showing a general trend where players with higher strike rates tend to score more runs.
- Some players with high strike rates but lower average runs may be more aggressive, while others with lower strike rates maintain consistency and score more runs over time

7.



- The Pareto chart highlights the cumulative percentage of runs scored by the top 20% of players, showing that a small percentage of players contribute to a large proportion of the total runs.
- This suggests that a few high-performing players are responsible for the majority of runs in the tournament, following the Pareto principle (80/20 rule).

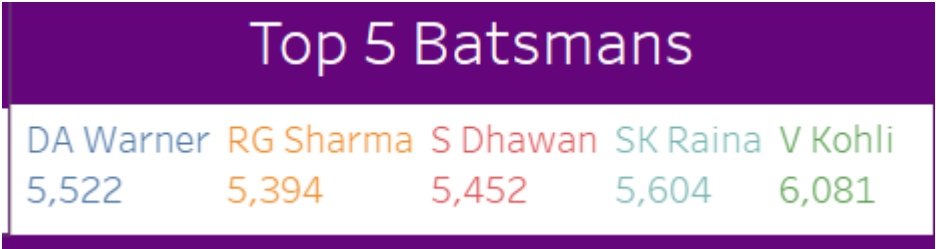
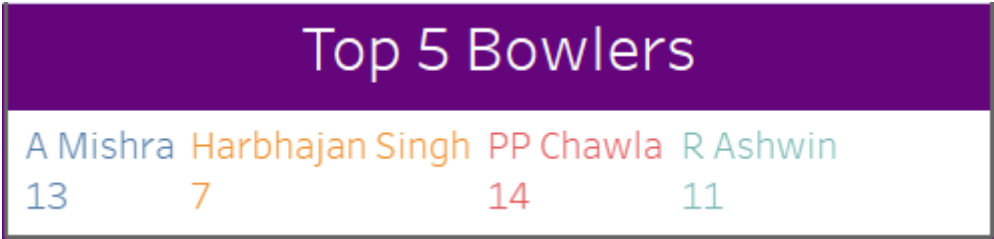
KPI’S Requirement:

1. Total Runs Scored: Total runs scored across all matches by teams and players.



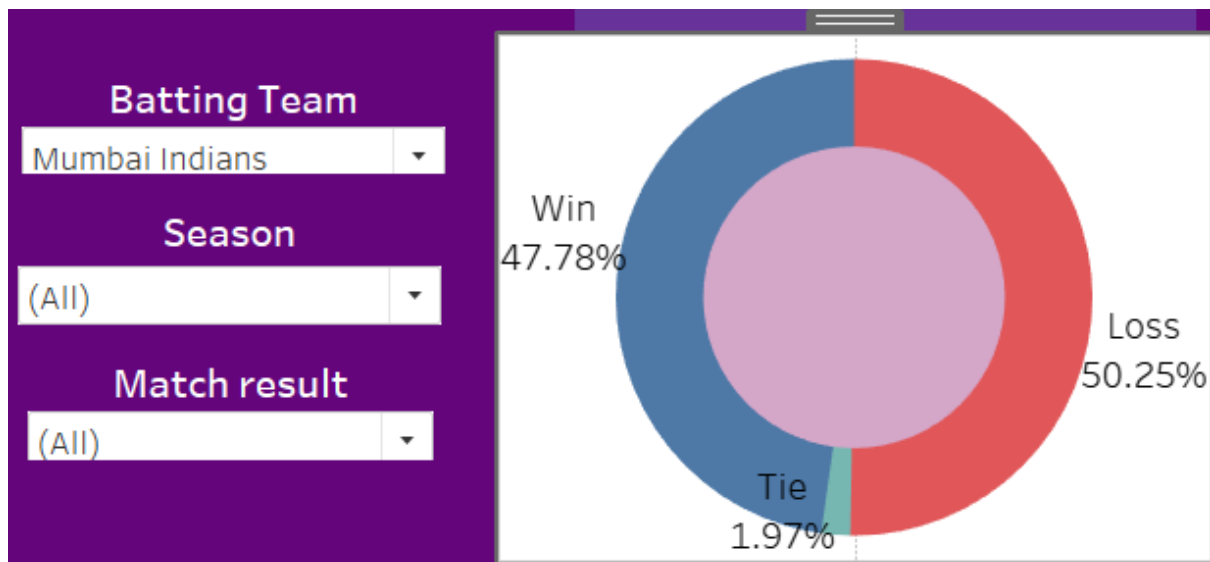
- The chart represents the total runs scored across all matches by teams and players, showcasing the overall batting performance.
- It highlights trends in scoring, where some teams or players have consistently scored higher, reflecting their dominance or success in the tournament

2. Top Performers: Identify the top 5 batsmen and bowlers based on total runs scored and wickets taken, respectively.



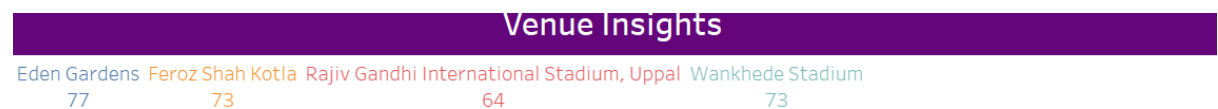
- The chart identifies the top 5 batsmen and bowlers based on total runs scored and wickets taken, with players like Virat Kohli and Dwayne Bravo showing significant contributions.
- It highlights the most consistent and impactful performers in the tournament, helping teams and analysts recognize key players for future strategies.

3. Win Percentage: Calculate the win percentage for each team in the dataset.



- the chart shows the win percentage for each team, indicating how often each team wins compared to the total number of matches played.
- Teams with higher percentages are more consistent in their performance, reflecting strong strategies, while lower percentages indicate areas for improvement.

**4Venue Insights: The stadium/venue where teams perform best (based on wins).**



- The chart displays venue insights, showing which stadiums or venues teams perform best at based on the number of wins.
- Venues with higher win counts are highlighted, indicating a team's strong performance at specific locations, possibly due to familiarity with the pitch or favorable conditions.

**5. Season-Wise Trends: Total matches played, runs scored, and wickets taken per season.**

Batting Team

Mumbai Indians

Season

(All)

Match result

(All)

- The chart shows season-wise trends in total matches played, runs scored, and wickets taken, highlighting the growth or decline of performance over the years.
- It reveals patterns such as peak seasons for runs and wickets, helping identify changes in team dynamics and player performance across different IPL seasons.

DASH BOARD:



