

2nd Semester B. Tech

DSE 1271 Data Visualization [1 0 3 2]

Week 8 , Exercise 2: Dataset: Deliveries.csv from Indian Premier League (Cricket)

Ball-by-ball details for all matches for all seasons.

Source: <https://www.kaggle.com/datasets/manasgarg/ipl>

Variables in the dataset:

```
match_id
inning - Tells if the first set of batting was going on or second. 1:
First Innings 2: Second Innings
batting_team- The team name which is currently batting.
bowling_team- The team name which is currently bowling.
over- Describe the current over number.
ball
batter - Name of the batsman on striking end.
bowler
non_striker
batsman_runs
extra_runs
total_runs
extras_type
is_wicket
player_dismissed
dismissal_kind
fielder
```

Ex 2. Answer the specified questions with data summarization and effective visuals. Write down your insights in the notebook as comments.

1. Find and visualize the total runs scored by each team.
2. Identify and display the names of the top 10 highest-scoring batters with their total runs scored.
3. Find and visualize the top 10 bowlers with the most wickets.
4. Tabulate and visualize the total number of extras conceded by each team.
5. Tabulate and visualize the batsmen (top 5) involved in the most run-outs.
6. Tabulate and visualize the top 5 bowlers who conceded the most extras.
7. Tabulate and visualize the most common dismissal type.
8. Find and display which of the top 3 overs has the highest run rate.
9. Analyze and visualize powerplay performance (first 6 overs).
10. Tabulate and visualize the top 5 batsmen with the most sixes and fours.