

SQL PROJECT – IPL 2025 DATA ANALYSIS

Questions set I – Easy

1. Show all matches played at Mumbai.

```
SELECT *  
  
FROM matches  
  
WHERE venue = 'mumbai';
```

2. Show team names and their coaches.

```
SELECT team_name, coach  
  
FROM teams;
```

3. Find all umpires from india.

```
SELECT umpire_name  
  
FROM umpire  
  
WHERE country = 'India';
```

4. Display match details in April 2025 sorted by date.

```
SELECT *  
  
FROM matches  
  
WHERE match_date BETWEEN '2025-04-01' AND '2025-04-30'  
  
ORDER BY match_date;
```

5. List all players of team “rcb”.

```
SELECT player_name  
  
FROM players  
  
JOIN teams ON players.team_id = teams.team_id  
  
WHERE team_name = 'rcb';
```

6. List all foreign players.

```
SELECT player_name, nationality FROM player_details pd join players p on p.player_id = pd.player_id  
  
WHERE nationality != 'India';
```

7. Get all bowlers from 'csk'.

```
SELECT player_name, role FROM player_details pd join players p on p.player_id=pd.player_id  
  
WHERE role = 'Bowler' AND team_id = (SELECT team_id FROM teams WHERE team_name = 'csk');
```

Questions set 2 – Moderate

SQL PROJECT – IPL 2025 DATA ANALYSIS

1. Find the total runs scored by each team's players.

```
SELECT t.team_name, SUM(p.total_runs) AS total_runs
FROM players p
JOIN teams t ON p.team_id = t.team_id
GROUP BY t.team_name;
```

2. Get the number of matches each team has played.

```
SELECT team_name, matches_played
FROM points_table pt
JOIN teams t
ON pt.team_id = t.team_id
ORDER BY matches_played desc;
```

3. List all matches along with the names of umpires who officiated for playoffs.

```
SELECT m.match_id, m.match_date, m.venue, u.umpire_name, mu.role
FROM matches m
JOIN match_umpire mu ON m.match_id = mu.match_id
JOIN umpire u ON mu.umpire_id = u.umpire_id
WHERE m.match_id > 70
ORDER BY m.match_id;
```

4. Find the title sponsor details for each team.

```
SELECT t.team_name, s.sponsor_name, s.sponsor_type, s.amount
FROM team_sponsors s
JOIN teams t ON s.team_id = t.team_id
WHERE sponsor_type = 'title sponsor'
ORDER BY amount DESC;
```

5. Count matches at each venue.

```
SELECT venue, COUNT(*) AS matches_count
FROM matches
GROUP BY venue
ORDER BY matches_count DESC;
```

6. Show average runs scored by players of 'gt'.

SQL PROJECT – IPL 2025 DATA ANALYSIS

```
SELECT player_name, (total_runs/matches_played) AS avg_runs  
FROM players WHERE team_id=3  
ORDER BY avg_runs DESC;
```

7. Highest Wicket-Taker(s) in ipl 2025.

```
SELECT player_name, wickets  
FROM players  
WHERE wickets = (SELECT MAX(wickets) FROM players);
```

Questions set 3 - Advanced

1. Rank teams by total points (ties get the same rank).

```
SELECT t.team_name, pt.points,  
DENSE_RANK() OVER (ORDER BY pt.points DESC) AS rank_position  
FROM points_table pt  
JOIN teams t ON pt.team_id = t.team_id;
```

2. Find the youngest player in each team.

```
SELECT team_name, player_name as youngest_player, dob  
FROM (  
SELECT t.team_name, p.player_name, pd.dob,  
ROW_NUMBER() OVER (PARTITION BY t.team_name ORDER BY pd.dob DESC) AS rn  
FROM players p  
JOIN player_details pd ON p.player_id = pd.player_id  
JOIN teams t ON p.team_id = t.team_id) AS ranked  
WHERE rn = 1;
```

3. Calculate the win percentage for each team.

```
SELECT t.team_name,  
ROUND((pt.wins / pt.matches_played) * 100, 2) AS win_percentage  
FROM points_table pt  
JOIN teams t ON pt.team_id = t.team_id  
ORDER BY win_percentage DESC;
```

4. Most Experienced Umpire in Each Role

SQL PROJECT – IPL 2025 DATA ANALYSIS

```
SELECT DISTINCT
    mu.role,
    u.umpire_name,
    u.experience_years
FROM match_umpire mu
JOIN umpire u
    ON mu.umpire_id = u.umpire_id
WHERE u.experience_years = (
    SELECT MAX(u2.experience_years)
    FROM match_umpire mu2
    JOIN umpire u2
        ON mu2.umpire_id = u2.umpire_id
    WHERE mu2.role = mu.role
);
```

5. Get the top scorer from each team.

```
SELECT team_name, player_name, total_runs
FROM (
    SELECT
        t.team_name,
        p.player_name,
        p.total_runs,
        ROW_NUMBER() OVER (PARTITION BY p.team_id ORDER BY p.total_runs
        DESC) AS rank_no
    FROM players p
    JOIN teams t ON p.team_id = t.team_id
) AS ranked
WHERE rank_no = 1;
```

6. Find the sponsor category by amount.

```
SELECT
    t.team_name,
```

SQL PROJECT – IPL 2025 DATA ANALYSIS

```
ts.sponsor_name,  
  
CASE  
  
    WHEN ts.amount >= 80000000 THEN 'Platinum Sponsor'  
  
    WHEN ts.amount >= 50000000 THEN 'Gold Sponsor'  
  
    WHEN ts.amount >= 25000000 THEN 'Silver Sponsor'  
  
    ELSE 'Bronze Sponsor'  
  
END AS sponsor_category  
  
FROM team_sponsors ts  
  
JOIN teams t  
  
    ON ts.team_id = t.team_id  
  
ORDER BY ts.amount DESC;
```

7. Find the youngest player in each role.

```
SELECT pd.role,  
  
    p.player_name,  
  
    pd.dob,  
  
    t.team_name  
  
FROM player_details pd  
  
JOIN players p ON pd.player_id = p.player_id  
  
JOIN teams t ON p.team_id = t.team_id  
  
WHERE pd.dob = (  
  
    SELECT MAX(pd2.dob)  
  
    FROM player_details pd2  
  
    WHERE pd2.role = pd.role  
  
)  
  
ORDER BY pd.role;
```