IPL Orange Cap Analysis Using SQL

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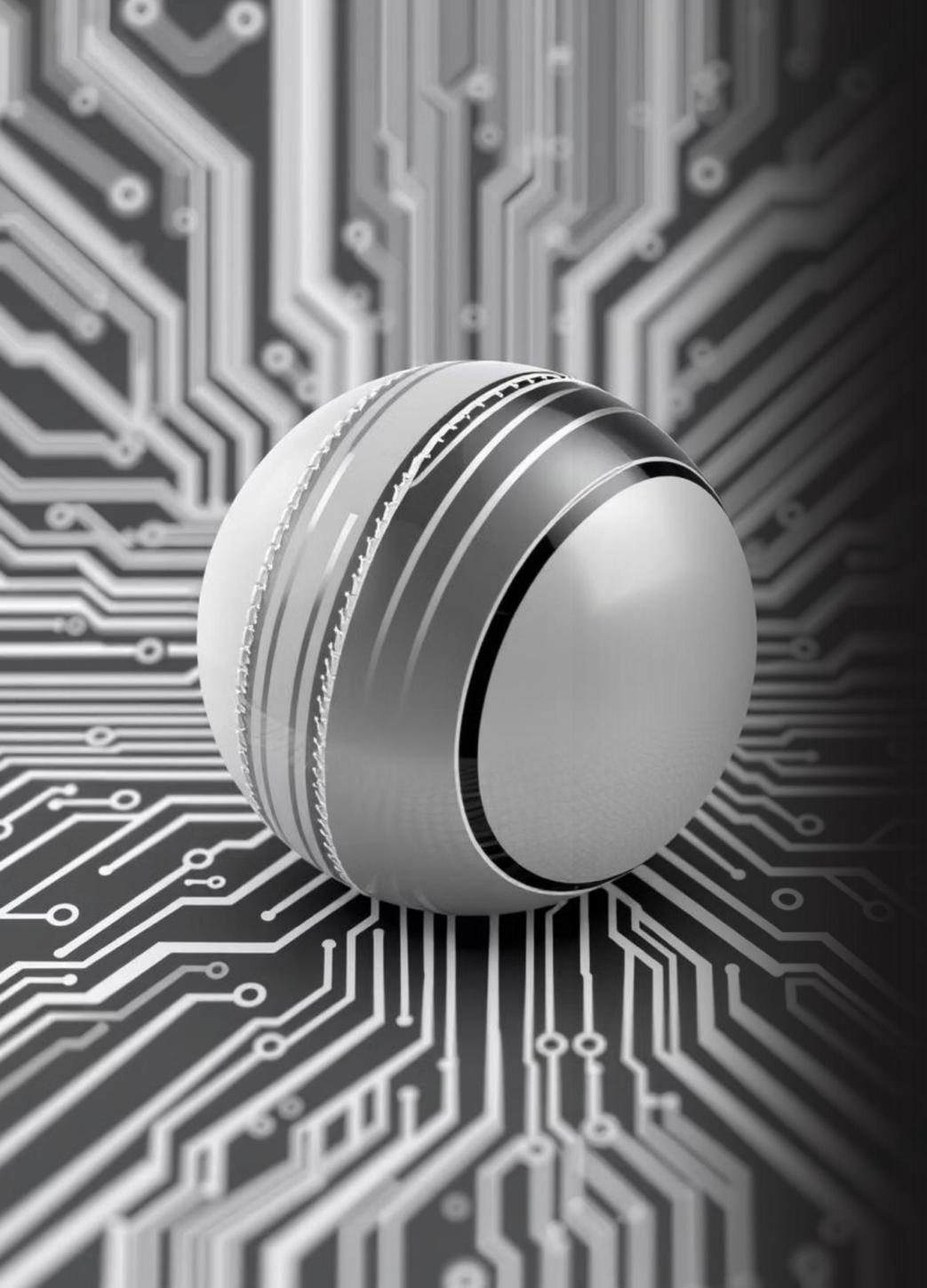

Objectives

1. *Analyze IPL Orange Cap data using SQL queries.*
2. *Answer key business questions with data insights.*
3. *Showcase SQL's power in sports analytics.*
4. *Demonstrate SQL functions and JOIN operations.*

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Database Schema Overview

Orange Cap Stats

```
CREATE TABLE orange_cap_stats (    season INT
PRIMARY KEY,    orange_cap_player VARCHAR(50),
matches INT,    innings INT,    runs INT,
average FLOAT,    strike_rate FLOAT);
```

Player Country

```
CREATE TABLE player _ country (
    player _ name VARCHAR(50),
    country VARCHAR(50));
```

[orange _ cap _ stats] ----------> [player _ country]
orange _ cap _ player player _ name

*These tables have a one-to-one relationship using the **orange_cap_player** field.*

Key Questions Answered with SQL

Highest Runs

Identify top run-scorers in each season.

Elite Scorers

List players exceeding 600 runs.

Strike Rate King

Find players with the highest strike rates.

Average Runs

Calculate average runs per match.

Player Origins

Combine player data with country info.

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Query 1: Player with Highest Average

```
SELECT orange_cap_player, average FROM orange_cap_stats
ORDER BY average DESC LIMIT 1;
```

	orange_cap_player	average
▶	Virat Kohli	81.08

This query identifies the player with the highest average in a single season.

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Query 2: Players with Over 600 Runs

```
SELECT orange_cap_player, runs FROM orange_cap_stats WHERE runs > 600;
```

orange_cap_player	runs
Shaun Marsh	616
Sachin Tendulkar	618
Chris Gayle	608
Chris Gayle	733
Michael Hussey	733
Robin Uthappa	660
Virat Kohli	973
David Warner	641
Kane Williamson	735
David Warner	692

This query filters for players who achieved over 600 runs in a season.

Query 3: Highest Strike Rate

```
SELECT orange_cap_player, strike_rate FROM orange_cap_stats ORDER BY strike_rate DESC;
```

orange_cap_player	strike_rate
Chris Gayle	183.13
Chris Gayle	160.74
Shubman Gill	157.8
David Warner	156.54
Sai Sudharsan	156.17
Virat Kohli	152.03
Jos Buttler	149.05
Matthew Hayden	144.81
David Warner	143.86
Kane Williamson	142.44

This query finds the player with the highest strike rate recorded.

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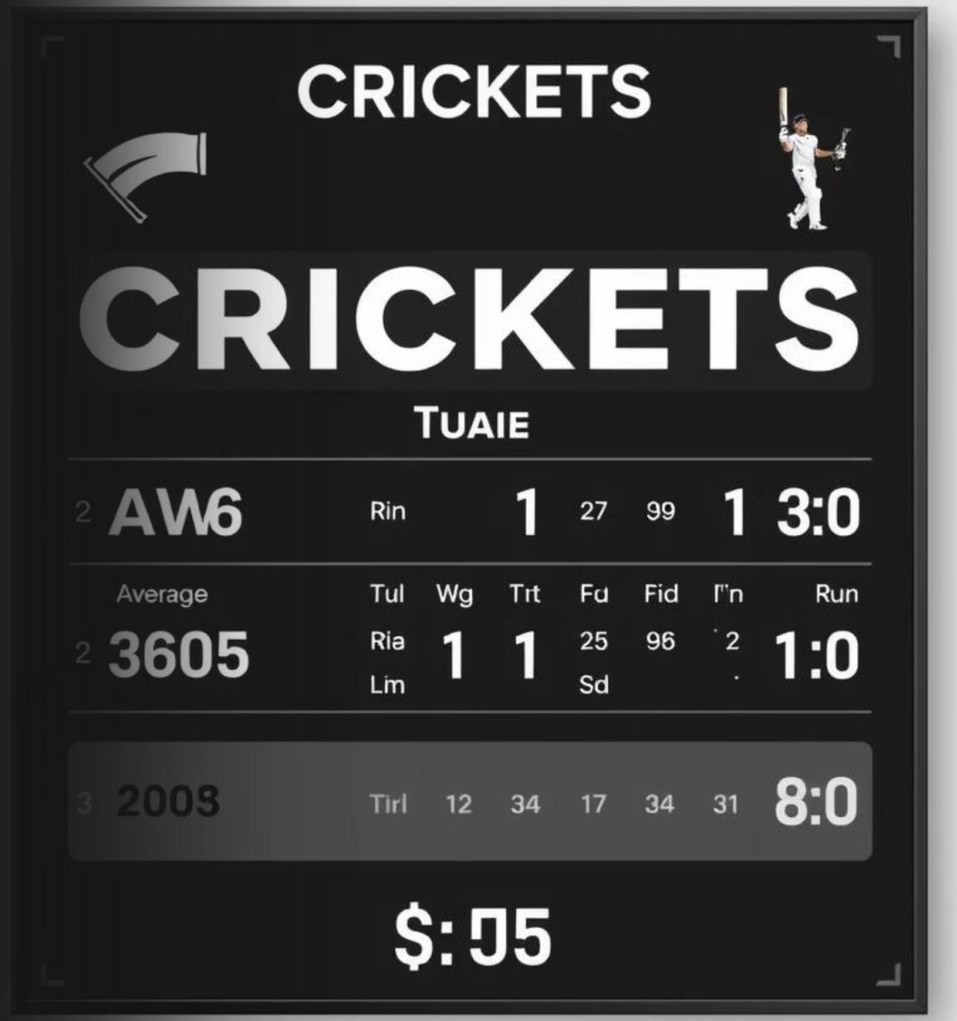
Query 4: Average Runs Per Match

```
SELECT orange _ cap_ player, (runs / matches) AS runs _
per _ match FROM orange_ cap_ stats;
```

This query calculates the average runs scored by players per match.

orange_cap_player	runs_per_match
Shaun Marsh	56.0000
Matthew Hayden	47.6667
Sachin Tendulkar	41.2000
Chris Gayle	50.6667
Chris Gayle	48.8667
Michael Hussey	43.1176
Robin Uthappa	41.2500
David Warner	40.1429
Virat Kohli	60.8125
David Warner	45.7857



Query 5: Player Countries (Using JOIN)

```
SELECT o.season, o.orange_cap_player, o. runs, p . Country
FROM orange _ cap_ stats INNERJOIN player_country pON
o.orange_cap_player = p.player_name;
```

This JOIN query links player data with their respective countries.

season	orange_cap_player	runs	country
2008	Shaun Marsh	616	Australia
2009	Matthew Hayden	572	Australia
2010	Sachin Tendulkar	618	India
2011	Chris Gayle	608	West Indies
2012	Chris Gayle	733	West Indies
2013	Michael Hussey	733	Australia
2014	Robin Uthappa	660	India
2015	David Warner	562	Australia
2016	Virat Kohli	973	India
2017	David Warner	641	Australia

Conclusion

SQL's Role in Sports Data

SQL is vital for extracting actionable insights.

It transforms raw data into valuable information.

Impact on Cricket Analytics

Analysis supports commentary and broadcasting.

It enhances team strategy and player evaluation.

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Thank You!

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