

**TITLE** - Football Performance and Transfer Data Analysis using SQL

**SUBTITLE** - Data-Driven Insights into Player Performance, Team Efficiency, and Transfer Trends

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## 1) Top Performers Analysis -

```
SELECT p.name AS player_name, t.team_name AS team_name, p.goals_scored AS
goals_scored , p.position AS position

FROM players p

JOIN teams t

ON p.team_id = t.team_id

ORDER BY goals_scored DESC

LIMIT 5;
```

### Explanation:

- This query retrieves the **top 5 players** who have scored the most goals.
- It joins the players table with the teams table using the team\_id to show each player's team name.
- The results are **sorted in descending order** of goals\_scored so that the highest scorers appear first.
- Finally, it limits the output to the **top 5 performers**.

### Solution Accepted

#### Your Answer

player_name	team_name	goals_scored	position
Erling Haaland	Manchester City	40	Forward
Robert Lewandowski	Juventus	35	Forward
Lionel Messi	FC Barcelona	30	Forward
Cristiano Ronaldo	Juventus	28	Forward
Kylian Mbappe	Paris Saint-Germain	27	Forward

## 2) Best Value for Money Players -

```
SELECT p.name AS player_name, t.team_name AS team_name, p.goals_scored AS
goals_scored ,p.salary AS salary,ROUND((p.goals_scored*1000000.0/p.salary)::numeric,1) AS value_for_money_ratio

FROM players p

JOIN teams t

ON p.team_id = t.team_id

ORDER BY value_for_money_ratio DESC

LIMIT 3;
```

### Explanation:

- This query identifies the **top 3 players** who offer the best return on investment based on their performance.
- It calculates a **value-for-money ratio** as goals scored per million dollars of salary.
- The query joins players and teams to show team names, then sorts results in **descending order** of this ratio to highlight the most efficient players.

### Solution Accepted

#### Your Answer

player_name	team_name	goals_scored	salary	value_
Erling Haaland	Manchester City	40	30000000	1.3
Mohamed Salah	Paris Saint-Germain	25	25000000	1.0
Kylian Mbappe	Paris Saint-Germain	27	30000000	0.9

### 3) Team Performance Summary -

```
SELECT t.team_name AS team_name,t.wins AS wins ,t.losses AS losses ,t.draws AS draws,SUM(goals_scored) AS total_goals,t.league_position AS league_position  
FROM teams t  
JOIN players p  
ON t.team_id = p.team_id  
GROUP BY team_name,wins,losses,draws,league_position  
ORDER BY wins DESC;
```

#### Explanation:

- This query summarizes each team's overall performance in the league.
- It joins the teams and players tables to **aggregate total goals scored** by all players on each team.
- The output displays each team's wins, losses, draws, total goals, and league position, **ordered by the number of wins** to highlight top-performing teams.

#### Solution Accepted

#### Your Answer

team_name	wins	losses	draws	total_goals	league_posit
Paris Saint-Germain	22	2	3	62	1
Manchester City	21	4	1	65	2
FC Barcelona	20	3	2	33	3
Juventus	18	5	1	63	4

## 4) Player Transfer Analysis -

```
SELECT p.name AS player_name, t1.team_name AS original_team , t2.team_name AS new_team, tn.transfer_fee FROM transfers tn
JOIN players p
ON tn.player_id = p.player_id
JOIN teams t1
ON t1.team_id = tn.from_team_id
JOIN teams t2
ON t2.team_id = tn.to_team_id
ORDER BY player_name;
```

### Explanation:

- This query identifies all players who have been **transferred to different teams**.
- It joins the transfers, players, and teams tables to show each player's **original team, new team, and transfer fee**.
- Results are ordered alphabetically by player name for clarity.

Solution Accepted

Your Answer

player_name	original_team	new_team	transfer_fee
Kevin De Bruyne	FC Barcelona	Paris Saint-Germain	80000000
Sergio Ramos	Paris Saint-Germain	FC Barcelona	90000000
Virgil van Dijk	Juventus	Manchester City	70000000

## 5) Identify Potential Underperformers -

```
SELECT p.name AS player_name , t.team_name AS team_name, p.matches_played AS  
matches_played ,p.goals_scored AS goals_scored  
  
FROM players p  
  
JOIN teams t  
  
ON p.team_id = t.team_id  
  
WHERE matches_played > 10 AND goals_scored < 4
```

### Explanation:

- This query highlights players who have **played more than 10 matches but scored fewer than 3 goals**, indicating low performance relative to playtime.
- It joins the players and teams tables to show each player's name, team, matches played, and goals scored — helping identify those needing performance review.

### Solution Accepted

#### Your Answer

player_name	team_name	matches_played	goals_scored
Sergio Ramos	FC Barcelona	21	3

## 6) Team Budget Efficiency -

```
SELECT team_name, wins, budget, ROUND((wins*1000000 / budget) :: numeric,2 ) AS  
win_to_budget_ratio  
FROM teams  
ORDER BY win_to_budget_ratio DESC  
LIMIT 3;
```

### Explanation:

- This query evaluates how efficiently each team converts its **budget into wins**.
- It calculates a **win-to-budget ratio** to measure cost-effectiveness and ranks teams in descending order.
- The **top 3 teams** with the best ratio are displayed, showing strong performance relative to financial spending.

### Solution Accepted

#### Your Answer

team_name	wins	budget	win_to_budget_ratio
Juventus	18	5000000000	0.04
FC Barcelona	20	6000000000	0.03
Paris Saint-Germain	22	7000000000	0.03