

SQL CASE STUDY

Esports Tournament (Challenge-2)

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A soccer ball with a colorful, abstract pattern of blue, green, orange, and black on a white base, sits on a green grass field. In the background, a large, empty stadium with tiered seating and a goalpost is visible under a clear sky. A large green curved shape overlays the bottom half of the image, containing text.

01 Overview

Problem Statement

The top eSports competitors from across the globe have gathered to battle it out. My job is to analyse the following data to find out all about the tournament.

02 Tables

There are mainly 3 tables

1. Teams
2. Players
3. Matches

Teams

team_id	team_name	country	captain_id
1	Cloud9	USA	1
2	Fnatic	Sweden	2
3	SK Telecom T1	South Korea	3
4	Team Liquid	USA	4
5	G2 Esports	Spain	5

Matches

match_id	team1_id	team2_id	match_date	winner_id	score_team1	score_team2
1	1	2	2022-01-01	1	16	14
2	3	5	2022-02-01	3	14	9
3	4	1	2022-03-01	1	17	13
4	2	5	2022-04-01	5	13	12
5	3	4	2022-05-01	3	16	10
6	1	3	2022-02-01	3	13	17
7	2	4	2022-03-01	2	12	9
8	5	1	2022-04-01	1	11	15
9	2	3	2022-05-01	3	9	10
10	4	5	2022-01-01	4	13	10

Players

player_id	player_name	team_id	role	salary
1	Shroud	1	Rifler	100000
2	JW	2	AWP	90000
3	Faker	3	Mid Laner	120000
4	Stewie2K	4	Rifler	95000
5	Perkz	5	Mid Laner	110000
6	Castle09	1	AWP	120000
7	Pike	2	Mid Laner	70000
8	Daron	3	Rifler	125000
9	Felix	4	Mid Laner	95000
10	Stadz	5	Rifler	98000
11	KL34	1	Mid Laner	83000
12	ForceZ	2	Rifler	130000
13	Joker	3	AWP	128000
14	Hari	4	AWP	90000
15	Wringer	5	Mid Laner	105000



1. What are the names of the players whose salary is greater than 100,000?

SQL Statements:

```
SELECT p.player_id , p.player_name,p.salary  
FROM datacoach.players p  
WHERE P.salary>100000;
```

Output:

	player_id	player_name	salary
▶	3	Faker	120000
	5	Perkz	110000
	6	Castle09	120000
	8	Daron	125000
	12	ForceZ	130000
	13	Joker	128000
	15	Wringer	105000



2. What is the team name of the player with player_id = 3?

SQL Statements:

```
SELECT p.player_id, p.player_name, t.team_name  
FROM datacoach.players p  
JOIN datacoach.teams t on p.team_id=t.team_id  
WHERE p.player_id=3;
```

Output:

	player_id	player_name	team_name
▶	3	Faker	SK Telecom T1



3. What is the total number of players in each team?

SQL Statements:

```
SELECT p.team_id,t.team_name, count(*) as NumberPlayer
FROM datacoach.players p
join datacoach.teams t on p.team_id=t.team_id
group by p.team_id;
```

Output:

	team_id	team_name	NumberPlayer
►	1	Cloud9	3
	2	Fnatic	3
	3	SK Telecom T1	3
	4	Team Liquid	3
	5	G2 Esports	3



4. What is the team name and captain name of the team with team_id = 2?

SQL Statements:

```
SELECT t.team_name, p.player_name as Captain_Name  
FROM datacoach.players p  
join datacoach.teams t on p.team_id=t.team_id  
where p.team_id=2 and t.captain_id=p.player_id;
```

Output:

	team_name	Captain_Name
►	Fnatic	JW



5. What are the player names and their roles in the team with team_id = 1?

SQL Statements:

```
SELECT P.player_id, P.player_name, P.role  
FROM datacoach.players P  
WHERE P.team_id= 1;
```

Output:

	player_id	player_name	role
▶	1	Shroud	Rifler
	6	Castle09	AWP
	11	KL34	Mid Laner



6. What are the team names and the number of matches they have won?

SQL Statements:

```
SELECT t.team_id,t.team_name, COUNT(M.winner_id) AS NumberWonMatch  
FROM datacoach.teams T  
JOIN datacoach.matches M ON T.team_id= M.winner_id  
GROUP BY t.team_id,t.team_name  
order by NumberWonMatch DESC;
```

Output:

	team_id	team_name	NumberWonMatch
▶	3	SK Telecom T1	4
	1	Cloud9	3
	2	Fnatic	1
	4	Team Liquid	1
	5	G2 Esports	1



7. What is the average salary of players in the teams with country 'USA'?

SQL Statements:

```
SELECT t.team_name,round(avg(P.salary)) AS Average_Salary  
FROM datacoach.players P  
JOIN datacoach.teams T ON P.team_id=T.team_id  
WHERE T.country= 'USA'  
group by t.team_name;
```

Output:

	team_name	Average_Salary
▶	Cloud9	101000
	Team Liquid	93333



8. Which team won the most matches?

SQL Statements:

```
SELECT T.team_name, COUNT(M.winner_id) AS NumberWonMatch
FROM datacoach.teams T
JOIN datacoach.matches M ON T.team_id= M.winner_id
GROUP BY T.team_name
order by NumberWonMatch DESC
limit 1;
```

Output:

	team_name	NumberWonMatch
►	SK Telecom T1	4



9. What are the team names and the number of players in each team whose salary is greater than 100,000?

SQL Statements:

```
SELECT t.team_name,count(*) as Number_of_Players  
FROM datacoach.players P  
JOIN datacoach.teams T ON P.team_id=T.team_id  
WHERE p.salary>100000  
group by t.team_name;
```

Output:

	team_name	Number_of_Players
▶	Cloud9	1
	Fnatic	1
	SK Telecom T1	3
	G2 Esports	2



10. What is the date and the score of the match with match_id = 3?

SQL Statements:

```
SELECT M.match_id, M.match_date, M.score_team1, M.score_team2,  
(M.score_team1+M.score_team2) as Total_Score  
FROM datacoach.matches M  
WHERE M.match_id= 3;
```

Output:

	match_id	match_date	score_team1	score_team2	Total_Score
▶	3	2022-03-01	17	13	30

THANK
YOU

