SQL CASE STUDY

Challenge 2 Esports Tournament

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INTRODUCTION:

The top eSports competitors from across the globe have gathered to battle it out.

Can you analyze the following data to find out all about the tournament?

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

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

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

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

Player_name	salary
Faker	120000
Perkz	110000
Castle09	120000
Daron	125000
ForceZ	130000
Joker	128000
Wringer	105000

```sql
SELECT

Player_name, salary

FROM Players

WHERE salary > 100000;
```

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

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

player_id	team_name	player_name
3	SK Telecom T1	Faker

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

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

team_name	Total_players
Cloud9	3
Fnatic	3
SK Telecom T1	3
Team Liquid	3
G2 Esports	3

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

```sql
SELECT

team_name, player_name AS captain_name

FROM teams t

JOIN players p ON t.team_id = p.team_id

WHERE t.team_id = 2

GROUP BY team_name , captain_name;
```

team_name	captain_name
Fnatic	JW
Fnatic	Pike
Fnatic	ForceZ

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

```sql
SELECT
player_name, role
FROM players
WHERE team_id = 1;
```

player_name	role
Shroud	Rifler
Castle09	AWP
KL34	Mid Laner

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

```sql
SELECT
team_id,
team_name,
COUNT(m.winner_id) AS Total_matches_won
FROM teams t
JOIN matches m ON t.team_id = m.winner_id
GROUP BY team_id
ORDER BY total_matches_won DESC;
```

team_id	team_name	Total_matches_won
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
SELECT
country,
team_name,
ROUND(AVG(salary), 2) AS avg_salary
FROM teams t
JOIN players p ON t.team_id = p.team_id
WHERE country = 'USA'
GROUP BY team_name
ORDER BY avg_salary DESC;
```

country	team_name	avg_salary
USA	Cloud9	101000.00
USA	Team Liquid	93333.33

8. Which team won the most matches?

```sql
SELECT
t.team_id,
t.team_name,
COUNT(m.winner_id) AS matches_won
FROM teams t
JOIN matches m ON t.team_id = m.winner_id
GROUP BY t.team_id
ORDER BY matches_won DESC
LIMIT 1;
```

team_id	team_name	matches_won
3	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
SELECT

t.team_name, COUNT(p.player_id) AS Total_players

FROM teams t

JOIN players p ON t.team_id = p.team_id

WHERE salary > 100000

GROUP BY t.team_name

ORDER BY Total_players DESC;
```

team_name	Total_players
SK Telecom T1	3
G2 Esports	2
Cloud9	1
Fnatic	1

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

```sql
SELECT
match_date,
score_team1,
score_team2,
SUM(score_team1 + score_team2) AS Total_score
FROM matches
WHERE match_id = 3;
```

match_date	score_team1	score_team2	Total_score
2022-03-01	17	13	30

Thankyou