



SQL CASE STUDY

ESPORTS TOURNAMENT



INTRODUCTION

- The top eSports competitors from across the globe have gathered to battle it out.
- I was asked to analyze the following data to find out all about the tournament.
- The case study consisting of Three Tables;
 - Teams
 - Matches
 - Players

TABLE USED

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?

```
select player_name, salary from players  
where salary > 100000;
```

Output:

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

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

```
select p.player_id, p.player_name, t.team_name from teams t
inner join players p
on t.team_id = p.team_id
where 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?

```
select team_name, count(player_id) as no_of_players
from players p
inner join teams t
on p.team_id = t.team_id
group by team_name
order by team_name asc;
```

Output:

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

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

```
select distinct captain_id as captain_name, team_name from  
teams t1  
join players t2  
on t1.team_id = t2.team_id;
```

Output:

captain_name	team_name
1	Cloud9
2	Fnatic
3	SK Telecom T1
4	Team Liquid
5	G2 Esports

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

```
select team_id, player_name, role from players  
where team_id = 1;
```

Output:

team_id	player_name	role
1	Shroud	Rifler
1	Castle09	AWP
1	KL34	Mid Laner

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

```
select team_name, count(winner_id) as no_of_win from teams t
inner join matches m
on t.team_id = m.team1_id
group by 1;
```

Output:

team_name	no_of_win
Cloud9	2
Fnatic	3
SK Telecom T1	2
Team Liquid	2
G2 Esports	1

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

```
select avg(salary) as avg_salary  
from players p  
inner join teams t  
on p.team_id = t.team_id  
where country = 'USA';
```

Output:

avg_salary
97166.6667

8. Which team won the most matches?

```
select team_name, count(winner_id) as no_of_win from teams t
inner join matches m
on t.team_id = m.team1_id
group by 1
order by 2 desc
limit 1;
```

Output:

team_name	no_of_win
Fnatic	3

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

```
select team_name, count(player_id) as no_of_players
from teams t
inner join players p
on t.team_id = p.team_id
where salary > 100000
group by team_name;
```

Output:

team_name	no_of_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?

```
select match_id, match_date, score_team1, score_team2  
from matches  
where match_id = 3;
```

Output:

match_id	match_date	score_team1	score_team2
3	01-03-2022	17	13



THANK YOU



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