



# E-Sports Tournament Case Study Analysis Using SQL



# 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	2023-01-01	1	16	14
2	3	5	2023-02-01	3	14	9
3	4	1	2023-03-01	1	17	11
4	2	5	2023-04-01	5	11	12
5	3	4	2023-05-01	3	16	10
6	1	3	2023-02-01	3	11	17
7	2	4	2023-03-01	2	12	9
8	5	1	2023-04-01	1	11	15
9	2	3	2023-05-01	3	9	10
10	4	5	2023-01-01	4	11	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

# QUESTIONS

1. What are the names of the players whose salary is greater than 100,000?
2. What is the team name of the player with player\_id = 3?
3. What is the total number of players in each team?
4. What is the team name and captain name of the team with team\_id = 2?
5. What are the player names and their roles in the team with team\_id = 1?
6. What are the team names and the number of matches they have won?
7. What is the average salary of players in the teams with country 'USA'?
8. Which team won the most matches?
9. What are the team names and the number of players in each team whose salary is greater than 100,000?
10. What is the date and the score of the match with match\_id = 3?

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

```
SELECT player_name FROM players
WHERE salary>100000;
```

player_name
Faker
Perkz
Castle09
Daron
ForceZ
Joker
Wringer

## 2. What is the team name of the player with player\_id = 3?

```
SELECT team_name FROM teams
WHERE team_id IN (SELECT team_id FROM players
                  WHERE player_id=3);
```

team_name
SK Telecom T1

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

```
SELECT T.team_id,T.team_name,COUNT(P.player_id) AS total_players FROM players P
JOIN teams T ON P.team_id=T.team_id
GROUP BY T.team_id
ORDER BY T.team_id;
```

team_id	team_name	total_players
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?

```
SELECT T.team_id,T.team_name,P.player_name AS captain_name FROM teams T  
JOIN players P ON T.team_id=P.team_id  
WHERE T.team_id=2 AND T.captain_id=P.player_id;
```

team_id	team_name	captain_name
2	Fnatic	JW

# 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;
```

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 T.team_id,T.team_name,COUNT(M.winner_id) AS no_of_matches FROM teams T
JOIN matches M ON T.team_id=M.winner_id
GROUP BY M.winner_id,T.team_id
ORDER BY T.team_id;
```

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

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

```
SELECT T.team_id,T.country,ROUND(AVG(P.salary)) AS avg_salary_of_players FROM teams T
JOIN players P ON T.team_id=P.team_id
WHERE T.country='USA'
GROUP BY T.team_id;
```

team_id	country	avg_salary_of_players
1	USA	101000
4	USA	93333

## 8. Which team won the most matches?

```
SELECT most_won_teams.* FROM
(SELECT max_count.*,DENSE_RANK() OVER(ORDER BY maximum_count DESC) AS rnk FROM
(SELECT T.team_id,T.team_name,COUNT(M.winner_id) AS maximum_count FROM teams T
JOIN matches M ON T.team_id=M.winner_id
GROUP BY T.team_id,M.winner_id) AS max_count) most_won_teams
WHERE rnk=1;
```

team_id	team_name	maximum_count	rnk
3	SK Telecom T1	4	1

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

```
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 P.salary>100000
GROUP BY T.team_name;
```

team_name	total_players
Cloud9	1
G2 Esports	2
SK Telecom T1	3
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;
```

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