

## SQL Challenge 2

### Challenge 2 - Esports Tournament



# INTRODUCTION

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

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

## DATASETS FOR THIS STUDY

- Teams
- Players
- Matches

## TABLES

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	Force2	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

## CASE STUDY QUESTIONS

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

DEMO\_DATABASE.PUBLIC \* Settings \*

```
--  
73 SELECT PLAYER_NAME  
74 FROM players  
75 WHERE SALARY > 100000;  
76  
77
```

Results Chart

	PLAYER_NAME
1	Faker
2	Perkz
3	Castle09
4	Daron
5	ForceZ
6	Joker
7	Wringer

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

DEMO\_DATABASE.PUBLIC \* Settings \*

```
--  
80 SELECT t.TEAM_NAME  
81 FROM TEAMS t  
82 JOIN PLAYERS p ON t.team_id = P.TEAM_ID  
83 WHERE p.player_id = 3  
84  
85  
86
```

Results Chart

	TEAM_NAME
1	SK Telecom T1

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

DEMO\_DATABASE.PUBLIC \* Settings \*

```
87 SELECT TEAM_NAME, COUNT(DISTINCT player_id) AS TOTAL_PLAYERS
88 FROM TEAMS t
89 JOIN PLAYERS p ON t.team_id = p.TEAM_ID
90 GROUP BY 1;
```

Results Chart

	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?

DEMO\_DATABASE.PUBLIC \* Settings \*

```
94 SELECT TEAM_NAME, player_name AS captain
95 FROM TEAMS t
96 JOIN PLAYERS p ON t.team_id = p.TEAM_ID AND t.captain_id = p.player_id
97 WHERE t.team_id = 2;
```

Results Chart

	TEAM_NAME	CAPTAIN
1	Fnatic	JW

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

DEMO\_DATABASE.PUBLIC \* Settings \*

```
100 SELECT PLAYER_NAME, ROLE
101 FROM PLAYERS
102 WHERE TEAM_ID = 1;
```

Results Chart

	PLAYER_NAME	ROLE
1	Shroud	Rifler
2	Castle09	AWP
3	KL34	Mid Laner

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

DEMO\_DATABASE.PUBLIC \* Settings \*

```
106
107 SELECT TEAM_NAME, COUNT(WINNER_ID) AS TOTAL_MATCHES_WON
108 FROM TEAMS t
109 JOIN MATCHES m ON t.team_id = m.winner_id
110 GROUP BY 1;
```

Results Chart

	TEAM_NAME	TOTAL_MATCHES_WON
1	Cloud9	3
2	SK Telecom TT	4
3	G2 Esports	1
4	Fnatic	1
5	Team Liquid	1

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

DEMO\_DATABASE.PUBLIC \* Settings \*

```
114
115 SELECT COUNTRY, ROUND(AVG(SALARY),2) AS AVERAGE_SALARY
116 FROM TEAMS t
117 JOIN players p ON t.team_id = p.team_id
118 WHERE COUNTRY = 'USA'
119 GROUP BY 1;
```

Results Chart

	COUNTRY	AVERAGE_SALARY
1	USA	97,166.67

8. Which team won the most matches?

DEMO\_DATABASE.PUBLIC \* Settings \*

```
122
123 SELECT TEAM_NAME, COUNT(WINNER_ID) AS TOTAL_MATCHES_WON
124 FROM TEAMS t
125 JOIN MATCHES m ON t.team_id = m.winner_id
126 GROUP BY 1
127 ORDER BY 2 DESC
128 LIMIT 1;
```

Results Chart

	TEAM_NAME	TOTAL_MATCHES_WON
1	SK Telecom TT	4

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

DEMO\_DATABASE.PUBLIC ▾ Settings ▾

```
152 SELECT t.TEAM_NAME, COUNT(p.PLAYER_ID) as TOTAL_PLAYERS
153 FROM TEAMS t
154 JOIN PLAYERS p ON t.team_id = p.team_id
155 WHERE SALARY > 100000
156 GROUP BY 1;
```

Results Chart

	TEAM_NAME	TOTAL_PLAYERS
1	SK Telecom T1	3
2	G2 Esports	2
3	Cloud9	1
4	Fnatic	1

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

DEMO\_DATABASE.PUBLIC ▾ Settings ▾

```
139
140 SELECT MATCH_DATE, SCORE_TEAM1, SCORE_TEAM2
141 FROM MATCHES
142 WHERE MATCH_ID = 3;
```

Results Chart

	MATCH_DATE	SCORE_TEAM1	SCORE_TEAM2
1	2022-03-01	17	13