



ESPORTS TOURNAMENT

DATA ANALYSIS USING SQL



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

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

SQL SCHEMA

```
CREATE TABLE Teams (  
team_id INT PRIMARY KEY,  
team_name VARCHAR(50) NOT NULL,  
country VARCHAR(50),  
captain_id INT  
);
```

```
-----  
INSERT INTO Teams (team_id, team_name, country, captain_id)  
VALUES (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);  
-----
```

```
CREATE TABLE Players (  
player_id INT PRIMARY KEY,  
player_name VARCHAR(50) NOT NULL,  
team_id INT,  
role VARCHAR(50),  
salary INT,  
FOREIGN KEY (team_id) REFERENCES Teams(team_id)  
);
```


SQL SCHEMA

```
INSERT INTO Players (player_id, player_name, team_id, role, salary)
VALUES (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);
```

```
-----
CREATE TABLE Matches (
match_id INT PRIMARY KEY,
team1_id INT,
team2_id INT,
match_date DATE,
```

SQL SCHEMA

```
winner_id INT,  
score_team1 INT,  
score_team2 INT,  
FOREIGN KEY (team1_id) REFERENCES Teams(team_id),  
FOREIGN KEY (team2_id) REFERENCES Teams(team_id),  
FOREIGN KEY (winner_id) REFERENCES Teams(team_id)  
);
```


```
INSERT INTO Matches (match_id, team1_id, team2_id, match_date, winner_id, score_team1, score_team2)  
VALUES (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);
```

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?

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

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





The screenshot shows a database query result grid. At the top, there is a toolbar with the following elements: 'Result Grid' (selected), a grid icon, a blue double-headed arrow icon, 'Filter Rows:' followed by an empty text box, 'Export:' followed by a save icon, and 'Wrap Cell Content:' followed by a text wrap icon. Below the toolbar is a table with one column labeled 'player_name'. The table contains seven rows of player names: Faker, Perkz, Castle09, Daron, ForceZ, Joker, and Wringer. The first row is highlighted with a blue background.

	player_name
▶	Faker
	Perkz
	Castle09
	Daron
	ForceZ
	Joker
	Wringer

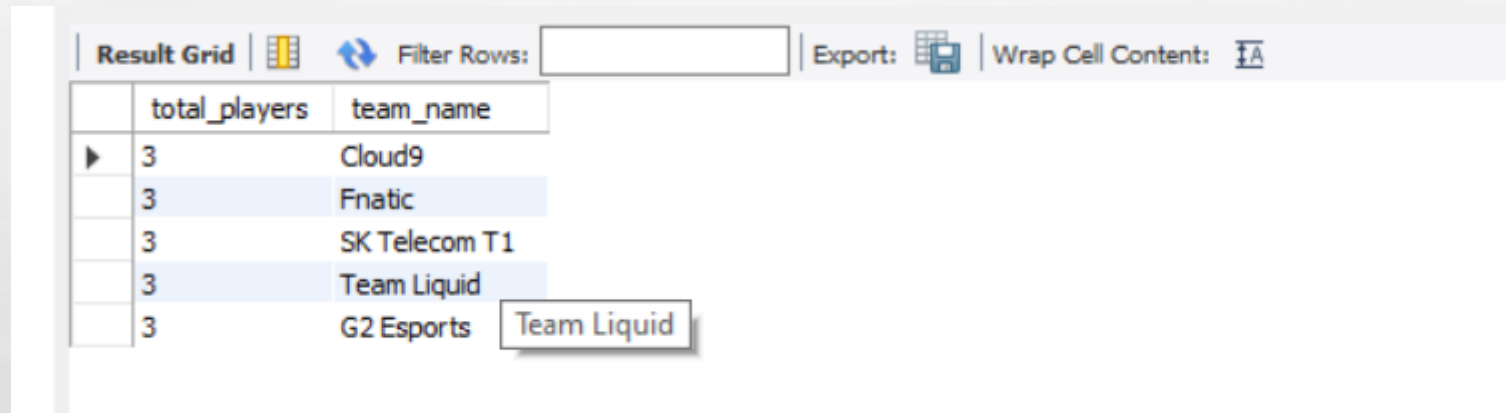
What is the team name of the player with player_id = 3?

```
SELECT team_name FROM teams  
JOIN players ON players.team_id = teams.team_id  
WHERE player_id = 3;
```

Result Grid			Filter Rows: <input type="text"/>	Export: 	Wrap Cell Content: 
	team_name				
▶	SK Telecom T1				

What is the total number of players in each team?

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





The screenshot shows a database query result grid with two columns: 'total_players' and 'team_name'. The results are as follows:

	total_players	team_name
▶	3	Cloud9
	3	Fnatic
	3	SK Telecom T1
	3	Team Liquid
	3	G2 Esports

A tooltip for 'Team Liquid' is visible, showing the value 'Team Liquid'.

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

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

Result Grid			
Filter Rows: <input type="text"/>			
Export: 			
Wrap Cell Content: 			
	team_name	captain_id	captain_name
▶	Fnatic	2	JW
	Fnatic	2	Pike
	Fnatic	2	ForceZ

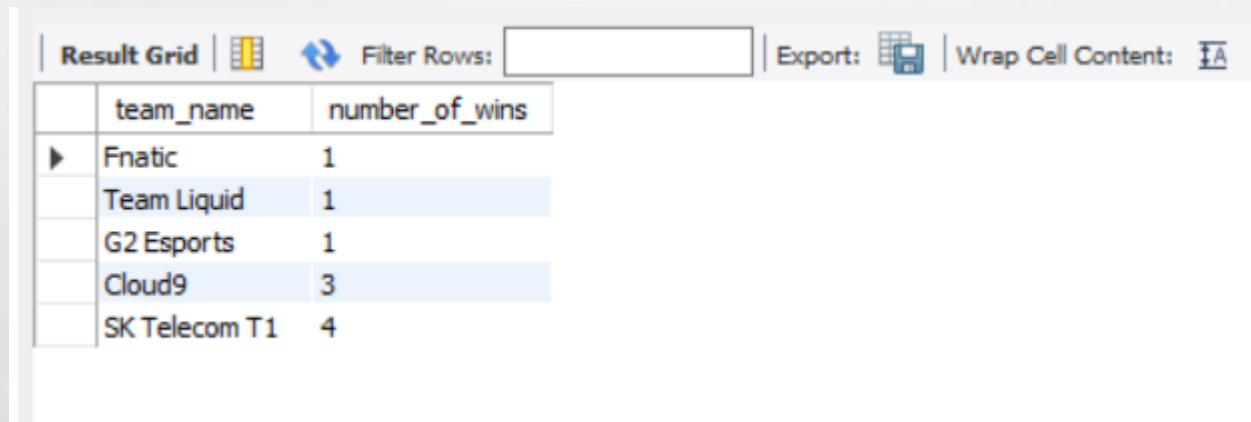
What are the player names and their roles in the team with team_id = 1?

```
SELECT player_name, role FROM players  
JOIN teams ON players.team_id = teams.team_id  
WHERE teams.team_id = 1;
```

Result Grid			Filter Rows: <input type="text"/>	Export: 	Wrap Cell Content: 
	player_name	role			
▶	Shroud	Rifler			
	Castle09	AWP			
	KL34	Mid Laner			

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

```
SELECT team_name, COUNT(*) AS number_of_wins FROM teams  
JOIN matches ON teams.team_id = matches.winner_id  
GROUP BY winner_id  
ORDER BY number_of_wins;
```







The screenshot shows a database query result grid. At the top, there is a toolbar with the text 'Result Grid', a grid icon, a 'Filter Rows:' label with an empty input box, an 'Export:' label with a grid icon, and a 'Wrap Cell Content:' label with a text icon. Below the toolbar is a table with two columns: 'team_name' and 'number_of_wins'. The table contains five rows of data, with the first row expanded to show a sub-row. The teams and their win counts are: Fnatic (1), Team Liquid (1), G2 Esports (1), Cloud9 (3), and SK Telecom T1 (4).

	team_name	number_of_wins
▶	Fnatic	1
	Team Liquid	1
	G2 Esports	1
	Cloud9	3
	SK Telecom T1	4

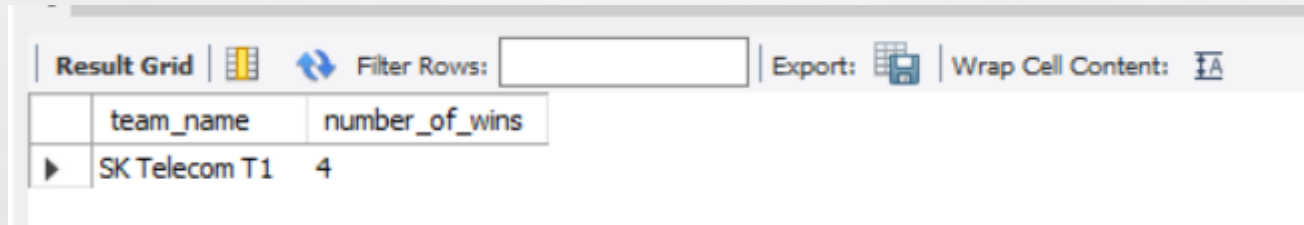
What is the average salary of players in the teams with country 'USA'?

```
SELECT AVG(salary), player_name, country FROM players  
JOIN teams ON players.team_id = teams.team_id  
WHERE country = 'USA';
```

Result Grid			Filter Rows: <input type="text"/>	Export: 	Wrap Cell Content: 
	avg(salary)	player_name	country		
▶	97166.6667	Shroud	USA		

Which team won the most matches?

```
SELECT team_name, COUNT(winner_id) AS number_of_wins from teams  
JOIN matches ON teams.team_id = matches.winner_id  
GROUP BY winner_id  
ORDER BY number_of_wins desc LIMIT 1;
```



The screenshot shows a database query result grid. At the top, there is a toolbar with options: 'Result Grid' (selected), 'Filter Rows' (with a search box), 'Export' (with a download icon), and 'Wrap Cell Content' (with a text icon). Below the toolbar is a table with two columns: 'team_name' and 'number_of_wins'. The first row of data shows 'SK Telecom T1' with 4 wins.

	team_name	number_of_wins
▶	SK Telecom T1	4





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

```
SELECT team_name, COUNT(*) AS salary_greater_than_100000 FROM teams  
JOIN players ON teams.team_id = players.team_id  
WHERE salary > 100000  
GROUP BY team_name;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	team_name	players_having_salary_greter_than_100000			
▶	SK Telecom T1	3			
	G2 Esports	2			
	Cloud9	1			
	Fnatic	1			

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

```
SELECT match_date, CONCAT(score_team1, ':', score_team2) AS score FROM  
matches  
WHERE match_id = 3;
```

Result Grid			Filter Rows: <input type="text"/>	Export: 	Wrap Cell Content: 
	match_date	score			
▶	2022-03-01	17:13			