

SQL ASSISGNMENT-1

1. How many players are there in the dataset?

```
select count(distinct Name) as players  
from fifa;
```

2. How many nationalities do these players belong to?

```
select count( distinct Nationality ) as nationalities  
from fifa;
```

3. What is the total wage given to all players? What's the average and standard deviation?

```
select sum(wage) as total_wages ,  
avg(wage) as avg_wages,  
stddev(wage) as stddev_wages  
from fifa;
```

4. Which nationality has the highest number of players, what are the top 3 nationalities by # of players?

```
select Nationality ,count( name) as player_count  
from fifa  
group by Nationality  
order by player_count desc  
limit 3;
```

5. Which player has the highest wage? Who has the lowest?

```
#highest wage  
select name, wage  
from fifa  
order by wage desc  
limit 1;
```

```
# lowest wage
select name,wage
from fifa
order by wage
limit 1;
```

6. The player having the – best overall rating? Worst overall rating?

best overall rating

```
select name, overall
from fifa
order by overall desc
limit 1;
```

worst overall rating

```
select name ,overall
from fifa
order by overall
limit 1;
```

7. Club having the highest total of overall rating? Highest Average of overall rating?

Highest total overall rating

```
select club, sum (overall) as total_overall_rating
from fifa
group by club
order by total_overall_rating desc
limit 1;
```

Highest average overall rating

```
select club, avg(overall) as avg_overall_rating
from fifa
group by club
order by avg_overall_rating desc
limit 1;
```

8. What are the top 5 clubs based on the average ratings of their players and their corresponding averages?

```
select club,avg(overall) as avg_rating  
from fifa  
group by club  
order by avg_rating desc  
limit 5;
```

9. What is the distribution of players whose preferred foot is left vs right?

```
select preferred_foot,  
count(*) as player_count  
from fifa  
group by preferred_foot;
```

10. Which jersey number is the luckiest?

```
select jersey_number,  
avg(overall) as avg_overall  
from fifa  
group by jersey_number  
order by avg_overall desc  
limit 1;
```

11. What is the frequency distribution of nationalities among players whose club name starts with M?

```
select nationality ,  
count(nationality) as freq_dist_nationality  
from fifa  
where club like 'm%'  
group by nationality;
```

12.How many players have joined their respective clubs in the date range 20 May 2018 to 10 April 2019 (both inclusive)?

```
select count(*) as players_in_range
from fifa
where STR_TO_DATE(Joined, '%d-%m-%Y')
between '2018-05-20' and '2019-04-10';
```

13.How many players have joined their respective clubs date wise?

```
select STR_TO_DATE(Joined, '%d-%m-%Y') as join_date,
count(*) as total_players
from fifa
group by join_date
order by join_date;
```

14.How many players have joined their respective clubs yearly?

```
select year (STR_TO_DATE(Joined, '%d-%m-%Y')) as join_year,
count(*) as total_players
from fifa
group by join_year
order by join_year;
```