

```
select * from fifa;
```

```
select * from fifa limit 10;
```

1) #*****How many players are there in the dataset?*****#

```
select count(fifa.name) as total_name from fifa;
```

2) #****How many nationalities do these players belong to?****#

```
select count(nationality) as total_cnt_nationality, count(distinct nationality) as cnt_nationality from fifa;
```

```
select distinct nationality 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 std_wages from fifa;
```

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

```
select nationality, count(*) 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? ---- #

```
select * from fifa limit 10;
```

```
select name, wage
```

```
from fifa
```

```
where wage=(select max(Wage) from fifa);
```

```
select name, wage
```

```
from fifa
where wage=(select min(wage) from fifa);
```

6) #-----The player having the – best overall rating? Worst overall rating? ---- #

```
select name,Potential
from fifa
where potential=(select max(Potential) from fifa);
```

```
select name,Potential
from fifa
where potential=(select min(Potential) from fifa);
```

7) #-----Club having the highest total of overall rating? Highest Average of overall rating? -----#

```
select club,avg(overall)as avg_overall
from fifa
where club is not null
group by club
order by avg_overall;
```

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

```
select name,club,avg(potential) as avg_potential
from fifa
where club is not null
group by club,Name
order by avg_potential desc
limit 5;
```

9) #-----What is the distribution of players whose preferred foot is left vs right? -----#

```
select * from fifa limit 10;
```

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

10) #----Which jersey number is the luckiest? ----#

```
select jersey_number,avg(overall) avg_overall_potential,count(*) as cnt_palyers
from fifa
where jersey_number is not null
group by Jersey_Number
order by avg_overall_potential desc
limit 1;
```

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

```
select nationality,count(*) as cnt_nat
from fifa
where club like "M%" and nationality is not null
group by nationality
order by cnt_nat desc;
```

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 player_count
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 player_count
FROM
    fifa
WHERE
    Joined IS NOT NULL
GROUP BY
    STR_TO_DATE(Joined, '%d-%m-%Y')
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 player_count
FROM
    fifa
WHERE
    Joined IS NOT NULL
GROUP BY
    join_year
ORDER BY
    join_year;

```

