

```
create database mudock;
```

```
show tables;
```

```
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;
```

