MYSQL



1. find top 5 samsung phones with biggest screen size

```
SELECT model, screen_size FROM yogesh.smartphones
where brand_name= 'samsung'
order by screen_size desc limit 5
```

2. sort all the phone with in decending order of number of total cameras

```
SELECT model,num_front_cameras + num_rear_cameras as 'total_cameras'
FROM yogesh.smartphones
order by total_cameras desc
```

3. sort data on the basis of ppl in decreasing order SELECT model,

```
round(sqrt(resolution_width*resolution_width +
resolution_height*resolution_height)/screen_size,2) as 'ppi'
FROM yogesh.smartphones
```

order by ppi desc

4. find the phone with 2nd largest battery

```
SELECT model, battery_capacity FROM yogesh.smartphones order by battery_capacity desc limit 1,1
```

5. find the name and rating of the worst rated apple phone

```
SELECT model, rating FROM yogesh.smartphones
```

```
where brand_name = 'apple'
```

order by rating asc limit 1

6. sort phones alphabetically and then on the basic of rating in desc order

```
SELECT model,rating FROM yogesh.smartphones order by model asc, rating desc
```

7. sort phones alphabetically and then on the basic of price in asc order

```
SELECT model, price FROM yogesh. smartphones order by model asc, price desc
```



1. group smartphones by brand and get the count, average price, max rating, avg screen size and avg battery capacity--> group by animation

```
SELECT brand_name,count(*) as 'num_phones',
avg(price) as 'avg_price',
max(rating) as 'max_rating',
round(avg(screen_size),2) as 'avg_screen_size',
round(avg(battery_capacity),2) as 'bettery_capacity'
FROM yogesh.smartphones
```

2. .group smartphones by whether they have an nfc and get the average price and rating

MYSQL

```
SELECT has_nfc,
avg(price) as 'avg price',
avg(rating) as 'avg rating'
FROM yogesh.smartphones
group by has_nfc
```

3. group smartphones by the brand and processor brand and get the count of models and the average primary camera resolution (rear)

```
select brand_name,
processor_brand,
count(*) as 'num_phones',
round(avg(primary_camera_rear),2) as 'avg primary camera'
from yogesh.smartphones
group by brand_name,processor_brand
```

4. find top 5 most costly phone brands

```
SELECT
```

```
brand_name,round(avg(price),2) as 'avg_price'
FROM yogesh.smartphones
group by brand_name
order by avg_price desc limit 5
```

5. which brand makes the smallest screen smartphones **SELECT**

```
brand_name,round(avg(screen_size),2) as 'avg_screen_size'
FROM yogesh.smartphones
group by brand_name
order by avg_screen_size asc limit 5
```

MYSQL

6. group smartphones by the brand, and find the brand with the highest number of models that have both nfc and an ir blaster.

```
SELECT brand_name,

count(*) as 'num_model'

FROM yogesh.smartphones

where has_nfc = 'True' and has_ir_blaster = 'True'

group by brand_name

order by num_model desc limit 2
```

7. find all samsung 5g enabled smartphones and find out the avg price for NFC and non-nfc phones

```
select has_nfc,avg(price) as 'avg_price'
from yogesh.smartphones
where brand_name = 'samsung' and has_5g = 'true'
group by has_nfc
```



1. find the avg rating of smartphone brands which have more than 20 phones

```
select brand_name,
count(*) as 'count',
avg(rating) as 'avg_rating'
from yogesh.smartphones
group by brand_name
```



```
having count>40

order by avg_rating desc
```

3. find the top3 brands with the higheest avg ram that have a refresh rate of at least 90 hz and fast charging available and

consider brands which have less then 10 phones

```
select brand_name,avg(ram_capacity) as 'ram_capacity' from yogesh.smartphones
where refresh_rate>90 and fast_charging_available=1
group by brand_name
having count(*)>10
order by ram_capacity desc limit 3
```

4. find the avg price of all the phone brands with avg rating >70 and num_phones more than 10 among all 5g enabled phone

```
select brand_name,

avg(price) as 'avg_price'

from yogesh.smartphones

where has_5g='True'

group by brand_name

having count(*)>10 and avg(rating)>70

order by avg_price desc
```