



MOBILE PHONE DATA ANALYSIS

Through MySQL



ABOUT THE DATA

The data provides detail of mobile phones types and models available. The data set provides detail of each and every model i.e. its brand, price, memory, operating system, battery range, 5G availability etc.

This report provides insights of the data basically the demographics and to answer questions related to it. The basic purpose is to categorize the mobile phones available as per brand, memory, price & other features.

BASIC QUERRIES

- Total Number of Mobile Phones

`select count(Total_Mobile) as Total_Mobiles from mobile_analysis`

Total_Mobiles
600

- Total Number of Brands

`select count(distinct(brands)) as Total_Brands from mobile_analysis`

Total_Brands
16

- Total Number of Mobile Phones against each brand

`select brands, count(Total_Mobile) as Total_Mobiles from mobile_analysis
group by brands order by Total_Mobiles desc;`

brands	Total_Mobiles
Apple	101
Samsung	97
realme	82
Redmi	72
Vivo	57
Xiaomi	44
Oppo	38
OnePlus	23
Nokia	22
Motorola	21
Infinix	16
Mi	12
Itel	7
Tecno	4
Moto	2
JioPhone	2

RESEARCH QUESTIONS

Question 1:

List of Mobile Phones available ordered as per Price List?

```
select phone_name, price from mobile_analysis  
order by price desc;
```

	phone_name	price
▶	Apple iPhone 14 Pro Max 1 TB, Deep Purple	189900
	Apple iPhone 14 Pro Max 1 TB, Silver	189900
	Apple iPhone 14 Pro Max 1 TB, Gold	189900
	Apple iPhone 14 Pro Max 1 TB, Space Black	189900
	Apple iPhone 14 Pro 1 TB, Deep Purple	179900
	Apple iPhone 14 Pro 1 TB, Silver	179900
	Apple iPhone 14 Pro 1 TB, Space Black	179900
	Apple iPhone 14 Pro Max 512 GB, Silver	169900
	Apple iPhone 14 Pro Max 512 GB, Gold	169900
	Apple iPhone 13 Pro 1 TB, Gold	169900
	Apple iPhone 14 Pro Max 512 GB, Space Black	169900
	Samsung Galaxy Z Fold4 5G 512 GB, 12 GB RAM, Beige, Mobile Phone	164999
	Samsung Galaxy Z Fold4 5G 512 GB, 12 GB RAM, Phantom Black, Mobile Ph...	164999
	Apple iPhone 14 Pro 512 GB, Silver	159900
	Apple iPhone 13 Pro Max 512 GB, Graphite	159900
	Apple iPhone 14 Pro 512 GB, Gold	159900

Question 2:

Which are the ten most expensive phones?

```
select * from mobile_analysis  
order by price desc  
limit 10;
```

Phone_name	Brands	Price	Internal_Storage	Operating_System_Type
Apple iPhone 14 Pro Max 1 TB, Silver	Apple	189900	Not Specified	iOS
Apple iPhone 14 Pro Max 1 TB, Gold	Apple	189900	Not Specified	iOS
Apple iPhone 14 Pro Max 1 TB, Deep Purple	Apple	189900	Not Specified	iOS
Apple iPhone 14 Pro Max 1 TB, Space Black	Apple	189900	Not Specified	iOS
Apple iPhone 14 Pro 1 TB, Silver	Apple	179900	Not Specified	iOS
Apple iPhone 14 Pro 1 TB, Space Black	Apple	179900	Not Specified	iOS
Apple iPhone 14 Pro 1 TB, Deep Purple	Apple	179900	Not Specified	iOS
Apple iPhone 13 Pro 1 TB, Gold	Apple	169900	Not Specified	iOS
Apple iPhone 14 Pro Max 512 GB, Silver	Apple	169900	512 GB	iOS
Apple iPhone 14 Pro Max 512 GB, Gold	Apple	169900	512 GB	iOS

Question 3:

Which are the top ten cheapest phones?

```
select * from mobile_analysis
order by price
limit 10;
```

Phone_name	Brands	Price	Internal_Storage	Operating_System_Type	USB_Type	5G_Availability
itel A23 Pro 8 GB, 1 GB RAM, Lake Blue, Mobile Phone	Itel	4040	8 GB	Android	Not Specified	No
itel A23 Pro 8 GB, 1 GB RAM, Sapphire Blue, Mobile Phone	Itel	4040	8 GB	Android	Not Specified	No
JioPhone Next 32 GB, 2 GB RAM, Blue Smartphone, LS1542QWN	JioPhone	4499	Not Specified	Android	Not Specified	No
JioPhone Next 32 GB, 2 GB RAM, Black Smartphone, LS1542QWN	JioPhone	4499	Not Specified	Android	Not Specified	No
Samsung Galaxy M01 Core 16 GB, 1 GB, Red, Mobile Phone	Samsung	5199	Not Specified	Android	USB 2.0	No
Nokia C01 Plus 16 GB, 2 GB RAM, Blue, Mobile Phone (JioExclusive offer ava...	Nokia	5499	16 GB	Android	Not Specified	No
Nokia C01 Plus 16 GB, 2 GB RAM, Grey, Mobile Phone (JioExclusive offer av...	Nokia	5499	16 GB	Android	Not Specified	No
Nokia C01 Plus 32 GB, 2 GB RAM, Blue, Mobile Phone	Nokia	5999	32 GB	Windows	Not Specified	No
Nokia C01 Plus 32 GB, 2 GB RAM, Grey, Mobile Phone	Nokia	5999	32 GB	Windows	Not Specified	No
Redmi A1 32 GB, 2 GB RAM, Light Blue Mobile Phone	Redmi	6199	32 GB	Not Specified	Not Specified	No

Question 4:

List of Top 10 Samsung phones as per price with all features?

```
select * from mobile_analysis
where brands = 'Samsung'
order by price desc
limit 10;
```

Phone_name	Brands	Price	Internal_Storage	Operating_System_Type	USB_Type	5G_Availability
Samsung Galaxy Z Fold4 5G 512 GB, 12 GB RAM, Beige, Mobile Phone	Samsung	164999	512 GB	Android	Yes	No
Samsung Galaxy Z Fold4 5G 512 GB, 12 GB RAM, Phantom Black, Mobile Phone	Samsung	164999	512 GB	Android	Yes	No
Samsung Galaxy Z Fold2 256 GB, 12 GB RAM, Mystic Bronze, Mobile Phone	Samsung	119999	Not Specified	Android	Yes	No
Samsung S22 Ultra 5G 512 GB, 12 GB RAM, Green, Smartphone	Samsung	118999	Not Specified	Android	Not Specified	No
Samsung S22 Ultra 5G 512 GB, 12 GB RAM, Burgundy, Mobile Phone	Samsung	118999	Not Specified	Android	Not Specified	No
Samsung S22 Ultra 5G 512 GB, 12 GB RAM, Phantom Black, Mobile Phone	Samsung	118999	Not Specified	Android	Not Specified	No
Samsung S22 Ultra 5G 512 GB, 12 GB RAM, Phantom White, Mobile Phone	Samsung	118999	Not Specified	Android	Not Specified	No
Samsung S22 Ultra 5G 256 GB, 12 GB RAM, Phantom White, Mobile Phone	Samsung	109999	Not Specified	Android	Not Specified	No
Samsung S22 Ultra 5G 256 GB, 12 GB RAM, Phantom Black, Mobile Phone	Samsung	109999	Not Specified	Android	Not Specified	No
Samsung S22 Ultra 5G 256 GB, 12 GB RAM, Green, Smartphone	Samsung	109999	Not Specified	Android	Not Specified	No

Question 5:

List of Top 10 mobile phones as per price with Android?

```
select * from mobile_analysis
where Operating_System_Type = 'Android'
order by price desc
limit 10;
```

Phone_name	Brands	Price	Internal_Storage	Operating_System_Type	USB_Type	5G_Availability
Samsung Galaxy Z Fold4 5G 512 GB, 12 GB RAM, Phantom Black, Mobile Phone	Samsung	164999	512 GB	Android	Yes	No
Samsung Galaxy Z Fold4 5G 512 GB, 12 GB RAM, Beige, Mobile Phone	Samsung	164999	512 GB	Android	Yes	No
Samsung Galaxy Z Fold2 256 GB, 12 GB RAM, Mystic Bronze, Mobile Phone	Samsung	119999	Not Specified	Android	Yes	No
Samsung S22 Ultra 5G 512 GB, 12 GB RAM, Phantom White, Mobile Phone	Samsung	118999	Not Specified	Android	Not Specified	No
Samsung S22 Ultra 5G 512 GB, 12 GB RAM, Green, Smartphone	Samsung	118999	Not Specified	Android	Not Specified	No
Samsung S22 Ultra 5G 512 GB, 12 GB RAM, Burgundy, Mobile Phone	Samsung	118999	Not Specified	Android	Not Specified	No
Samsung S22 Ultra 5G 512 GB, 12 GB RAM, Phantom Black, Mobile Phone	Samsung	118999	Not Specified	Android	Not Specified	No
Samsung S22 Ultra 5G 256 GB, 12 GB RAM, Phantom White, Mobile Phone	Samsung	109999	Not Specified	Android	Not Specified	No
Samsung S22 Ultra 5G 256 GB, 12 GB RAM, Phantom Black, Mobile Phone	Samsung	109999	Not Specified	Android	Not Specified	No
Samsung S22 Ultra 5G 256 GB, 12 GB RAM, Green, Smartphone	Samsung	109999	Not Specified	Android	Not Specified	No

Question 6:

List of 10 cheapest mobile phones as per price with Android?

```
select * from mobile_analysis
where Operating_System_Type = 'Android'
order by price
limit 10;
```

Phone_name	Brands	Price	Internal_Storage	Operating_System_Type	USB_Type	5G_Availability
itel A23 Pro 8 GB, 1 GB RAM, Sapphire Blue, Mobile Phone	Itel	4040	8 GB	Android	Not Specified	No
itel A23 Pro 8 GB, 1 GB RAM, Lake Blue, Mobile Phone	Itel	4040	8 GB	Android	Not Specified	No
JioPhone Next 32 GB, 2 GB RAM, Blue Smartphone, LS1542QWIN	JioPhone	4499	Not Specified	Android	Not Specified	No
JioPhone Next 32 GB, 2 GB RAM, Black Smartphone, LS1542QWIN	JioPhone	4499	Not Specified	Android	Not Specified	No
Samsung Galaxy M01 Core 16 GB, 1 GB, Red, Mobile Phone	Samsung	5199	Not Specified	Android	USB 2.0	No
Nokia C01 Plus 16 GB, 2 GB RAM, Blue, Mobile Phone (JioExclusive offer available)	Nokia	5499	16 GB	Android	Not Specified	No
Nokia C01 Plus 16 GB, 2 GB RAM, Grey, Mobile Phone (JioExclusive offer available)	Nokia	5499	16 GB	Android	Not Specified	No
Redmi 9A Sport 32 GB 2 GB RAM, Carbon Black, Mobile Phone	Redmi	6499	32 GB	Android	Type C	No
Itel A48 32 GB, 2 GB RAM, Gradation Green, Mobile Phone (JioExclusive offer available)	Itel	6599	32 GB	Android	Not Specified	No
Itel A48 32 GB, 2 GB RAM, Gradation Black, Mobile Phone (JioExclusive offer available)	Itel	6599	32 GB	Android	Not Specified	No

Question 7:

List of Top 10 mobile phones as per price with IOS?

```
select * from mobile_analysis
where Operating_System_Type = 'iOS'
order by price desc
limit 10;
```

Phone_name	Brands	Price	Internal_Storage	Operating_System_Type	USB_Type	5G_Availability
Apple iPhone 14 Pro Max 1 TB, Gold	Apple	189900	Not Specified	iOS	Yes	No
Apple iPhone 14 Pro Max 1 TB, Space Black	Apple	189900	Not Specified	iOS	Yes	No
Apple iPhone 14 Pro Max 1 TB, Silver	Apple	189900	Not Specified	iOS	Yes	No
Apple iPhone 14 Pro Max 1 TB, Deep Purple	Apple	189900	Not Specified	iOS	Not Specified	No
Apple iPhone 14 Pro 1 TB, Silver	Apple	179900	Not Specified	iOS	Yes	No
Apple iPhone 14 Pro 1 TB, Deep Purple	Apple	179900	Not Specified	iOS	Not Specified	No
Apple iPhone 14 Pro 1 TB, Space Black	Apple	179900	Not Specified	iOS	Yes	No
Apple iPhone 14 Pro Max 512 GB, Gold	Apple	169900	512 GB	iOS	Yes	No
Apple iPhone 14 Pro Max 512 GB, Space Black	Apple	169900	512 GB	iOS	Yes	No
Apple iPhone 13 Pro 1 TB, Gold	Apple	169900	Not Specified	iOS	Yes	No

Question 8:

List of 10 cheapest mobile phones as per price with IOS?

```
select * from mobile_analysis
where Operating_System_Type = 'iOS'
order by price
limit 10;
```

Phone_name	Brands	Price	Internal_Storage	Operating_System_Type	USB_Type	5G_Availability
Apple iPhone SE 128 GB, Black (Includes Earpods and Adapter)	Apple	43900	128 GB	iOS	Yes	Yes
Apple iPhone SE 128 GB, White (Includes Earpods and Adapter)	Apple	43900	128 GB	iOS	Yes	No
Apple iPhone SE 2022 64 GB, Midnight	Apple	43900	64 GB	iOS	Not Specified	No
Apple iPhone SE 2022 64 GB, (Product) Red	Apple	43900	64 GB	iOS	Not Specified	No
Apple iPhone 11 64 GB, Black (without Earpods and Adapter)	Apple	43900	64 GB	iOS	Not Specified	No
Apple iPhone 11 64 GB, Green (without Earpods and Adapter)	Apple	43900	64 GB	iOS	Not Specified	No
Apple iPhone 11 64 GB, Yellow (without Earpods and Adapter)	Apple	43900	64 GB	iOS	Not Specified	No
Apple iPhone 11 64 GB, Purple (without Earpods and Adapter)	Apple	43900	64 GB	iOS	Not Specified	No
Apple iPhone SE 2022 128 GB, Midnight	Apple	48900	128 GB	iOS	Not Specified	No
Apple iPhone 11 128 GB, Black (without Earpods and Adapter)	Apple	48900	128 GB	iOS	Not Specified	No

Question 9:

List of Top 10 mobile phones as per price with 5G?

```
select * from mobile_analysis  
where 5G_Availability = "Yes"  
order by price desc  
limit 10;
```

Phone_name	Brands	Price	Internal_Storage	Operating_System_Type	USB_Type	5G_Availability
Samsung Galaxy Z Series Flip3 5G 256 GB, 8 GB RAM, Cream, Mobile Phone	Samsung	88999	Not Specified	Android	Yes	Yes
Apple iPhone 12 128 GB, Green	Apple	59900	128 GB	iOS	Not Specified	Yes
Apple iPhone 12 128 GB, Purple	Apple	59900	128 GB	iOS	Not Specified	Yes
Apple iPhone 12 128 GB, White	Apple	59900	128 GB	iOS	Not Specified	Yes
Apple iPhone 12 128 GB, Blue	Apple	59900	128 GB	iOS	Not Specified	Yes
Apple iPhone 12 128 GB, Black	Apple	59900	128 GB	iOS	Not Specified	Yes
Apple iPhone 12 64 GB, (Product)Red	Apple	56900	64 GB	iOS	Not Specified	Yes
Apple iPhone 12 64 GB, Purple	Apple	56900	64 GB	iOS	Not Specified	Yes
Apple iPhone 12 64 GB, Green	Apple	56900	64 GB	iOS	Not Specified	Yes
Motorola Edge 30 Ultra 5G 128 GB, 8 GB RAM, Interstellar Black, Mobile Phone	Motorola	54999	Not Specified	Android	Type C	Yes

Question 10:

Total price of all mobiles of each brand?

```
select brands as Brand_Name,  
sum(price) as Total_Price  
from mobile_analysis  
group by brands  
order by Total_Price desc;
```

Brand_Name	Total_Price
Apple	10572900
Samsung	4148103
realme	1461118
Xiaomi	1282956
Vivo	1122844
Redmi	1086928
OnePlus	801977
Oppo	629336
Motorola	520979
Mi	440488
Nokia	269778
Infinix	200984
Itel	42575
Tecno	41196
Moto	19998
JioPhone	8998