

SMARTPHONES SALES ANALYSIS PROJECT

Overview:

This project analyzes a comprehensive dataset containing detailed specifications and pricing information for a wide range of smartphones. Using SQL queries, the project aims to extract valuable insights about smartphone market trends, brand performance, hardware configurations, and price segmentation. The dataset supports various analytical tasks such as identifying popular features, segmenting products by price category, and evaluating technology adoption like 5G and fast charging.

1.TOTAL SMARTPHONES

SELECT

COUNT(DISTINCT (MODEL)) AS TOTAL_SMARTPHONES

FROM

SMARTPHONES;



The screenshot shows a database query result grid. The top bar includes a 'Result Grid' tab, a 'Filter Rows' button, and an 'Export' button. The main table has one column labeled 'TOTAL_SMARTPHONES' and one row with the value '980'.

TOTAL_SMARTPHONES
980

2.TOTAL BRAND

SELECT DISTINCT

(BRAND_NAME) AS ALL_BRANDS

FROM

SMARTPHONES;

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	ALL_BRANDS			
▶	oneplus			
	samsung			
	motorola			
	realme			
	apple			
	xiaomi			
	nothing			
	oppo			
	vivo			
	poco			
	iqoo			
	jio			
	gionee			
	tecno			
	tesla			
	google			
	infinix			

Result 208 x

```

SELECT
COUNT(DISTINCT (BRAND_NAME)) AS TOTAL_BRANDS
FROM
SMARTPHONES;

```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	TOTAL_BRANDS			
▶	46			

3.TOTAL MODELS

```

SELECT DISTINCT
(MODEL) AS MODELS
FROM
SMARTPHONES;

```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	MODELS			
▶	OnePlus 11 5G			
	OnePlus Nord CE 2 Lite 5G			
	Samsung Galaxy A14 5G			
	Motorola Moto G62 5G			
	Realme 10 Pro Plus			
	Samsung Galaxy F23 5G (6GB RAM + 128GB)			
	Apple iPhone 14			
	Xiaomi Redmi Note 12 Pro Plus			
	Nothing Phone 1			
	OnePlus Nord 2T 5G			
	Realme 10 Pro			
	Oppo A78			
	Xiaomi Redmi Note 12 Pro 5G			
	Vivo T1 5G (6GB RAM + 128GB)			
	Samsung Galaxy S23 Ultra 5G			
	Apple iPhone 13			
	Vivo Y16			
Result 212 x				

SELECT

COUNT(DISTINCT (MODEL)) AS TOTAL_MODELS

FROM

SMARTPHONES;

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	TOTAL_MODELS			
▶	980			

4.TOTAL_SALE

SELECT

SUM(PRICE) AS TOTAL_SALES

FROM

SMARTPHONES;

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
TOTAL_SALES			
▶ 31870094			

5.TOTAL 5G PHONES

```

SELECT
    COUNT(*) AS TOTAL_5G_PHONES
FROM
    SMARTPHONES
WHERE
    HAS_5G = 'TRUE';

```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
TOTAL_5G_PHONES			
▶ 549			

6.TOTAL NON 5G PHONES

```

SELECT
    COUNT(*) AS TOTAL_NON_5G_PHONES
FROM
    SMARTPHONES
WHERE
    HAS_5G = 'FALSE';

```

Result Grid		Filter Rows:		Export:	Wrap Cell Content:
	TOTAL_NON_5G_PHONES				
▶	431				

7.TOTAL NFC PHONES

SELECT

COUNT(*) AS TOTAL_NFC_PHONES

FROM

SMARTPHONES

WHERE

HAS_NFC = 'TRUE';

Result Grid		Filter Rows:		Export:
	TOTAL_NFC_PHONES			
▶	393			

8.TOTAL NON NFC PHONES

SELECT

COUNT(*) AS TOTAL_NON_NFC_PHONES

FROM

SMARTPHONES

WHERE

HAS_NFC = 'FALSE';

Result Grid	Filter Rows:	Export:
TOTAL_NON_NFC_PHONES		
587		

9.TOTAL IR_BLAster PHONES

```

SELECT
    COUNT(*) AS TOTAL_IR_BLAster_PHONES
FROM
    SMARTPHONES
WHERE
    HAS_IR_BLAster = 'TRUE';

```

Result Grid	Filter Rows:	Export:
TOTAL_IR_BLAster_PHONES		
159		

10.TOTAL NON IR_BLAster PHONES

```

SELECT
    COUNT(*) AS TOTAL_NON_IR_BLAster_PHONES
FROM
    SMARTPHONES
WHERE
    HAS_IR_BLAster = 'FALSE';

```

Result Grid		Filter Rows:		Export:		W
	TOTAL_IR_BLASTER_PHONES					
▶	159					

11.TOTAL PROCESSOR BRAND

SELECT DISTINCT

(PROCESSOR_BRAND) AS ALL_PROCESSORS

FROM

SMARTPHONES;

Result Grid		Filter Rows:		Export:		Wrap Cell Content: IA
	ALL_PROCESSORS					
▶	snapdragon					
	exynos					
	dimensionality					
	bionic					
	helio					
	unisoc					

Result 220 ✕

12.TOTAL OS

SELECT DISTINCT

(OS)

FROM

SMARTPHONES;

Result Grid		Filter Rows:
	OS	
▶	android	
	ios	
	other	

13.count all brands smartphones

```
SELECT  
    BRAND_NAME, COUNT(*) TOTAL_PHONES  
FROM  
    SMARTPHONES  
GROUP BY BRAND_NAME  
ORDER BY TOTAL_PHONES DESC;
```


Result Grid			Filter Rows:	Export:	Wrap Cell Content
	BRAND_NAME	TOTAL_PHONES			
▶	xiaomi	134			
	samsung	132			
	vivo	111			
	realme	97			
	oppo	88			
	motorola	52			
	apple	46			
	oneplus	42			
	poco	41			
	tecno	33			
	iqoo	32			
	infinix	29			
	huawei	16			
	google	14			
	honor	13			
	nokia	13			
	itel	10			

Result 222 x

14.SMARTPHONES WITH PRICE GREATER THAN 1 LAKH

SELECT

MODEL, PRICE

FROM

SMARTPHONES

WHERE

PRICE > 100000

ORDER BY PRICE;

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	MODEL	PRICE			
▶	Samsung Galaxy S21 Ultra 5G (12GB RAM + 12...	101999			
	Apple iPhone 14 Plus (512GB)	104999			
	Samsung Galaxy Note 30 Ultra 5G	104999			
	Samsung Galaxy S21 Ultra	105999			
	Vivo X Fold 5G	106990			
	Xiaomi Mix Fold 2 5G	106990			
	Asus ROG Phone 6D Ultimate	107990			
SMARTPHONES 223					

15.SMARTPHONES WITH SNAPDRAGON PROCESSOR

SELECT

MODEL, PROCESSOR_BRAND

FROM

SMARTPHONES

WHERE

PROCESSOR_BRAND = 'SNAPDRAGON';

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	MODEL	PROCESSOR_BRAND			
▶	OnePlus 11 5G	snapdragon			
	OnePlus Nord CE 2 Lite 5G	snapdragon			
	Motorola Moto G62 5G	snapdragon			
	Samsung Galaxy F23 5G (6GB RAM + 128GB)	snapdragon			
	Nothing Phone 1	snapdragon			
	Realme 10 Pro	snapdragon			
	Vivo T1 5G (6GB RAM + 128GB)	snapdragon			
SMARTPHONES 224					

16.SMARTPHONES WITH DIMENSITY PROCESSOR

SELECT

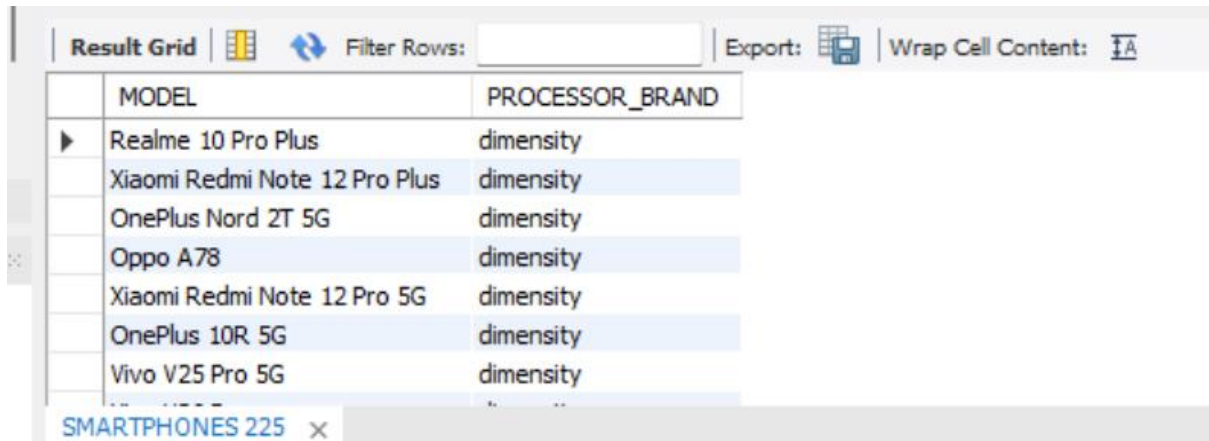
MODEL, PROCESSOR_BRAND

FROM

SMARTPHONES

WHERE

PROCESSOR_BRAND = 'DIMENSITY';



The screenshot shows a database query result grid. The grid has two columns: 'MODEL' and 'PROCESSOR_BRAND'. The results are as follows:

MODEL	PROCESSOR_BRAND
Realme 10 Pro Plus	dimensity
Xiaomi Redmi Note 12 Pro Plus	dimensity
OnePlus Nord 2T 5G	dimensity
Oppo A78	dimensity
Xiaomi Redmi Note 12 Pro 5G	dimensity
OnePlus 10R 5G	dimensity
Vivo V25 Pro 5G	dimensity

At the bottom of the grid, there is a tab labeled 'SMARTPHONES 225' with a close button (X).

17.SMARTPHONES WITH BIONIC PROCESSOR

SELECT

MODEL, PROCESSOR_BRAND

FROM

SMARTPHONES

WHERE

PROCESSOR_BRAND = 'BIONIC';

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	MODEL	PROCESSOR_BRAND			
▶	Apple iPhone 14	bionic			
	Apple iPhone 13	bionic			
	Apple iPhone 14 Pro Max	bionic			
	Apple iPhone 11	bionic			
	Apple iPhone 14 Plus	bionic			
	Apple iPhone 13 Pro	bionic			
	Apple iPhone 14 Pro	bionic			

SMARTPHONES 226 x

18. List all smartphones that support 5G

```

SELECT
    model, has_5g
FROM
    smartphones
WHERE
    has_5g = 'true';

```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	model	has_5g			
▶	OnePlus 11 5G	TRUE			
	OnePlus Nord CE 2 Lite 5G	TRUE			
	Samsung Galaxy A14 5G	TRUE			
	Motorola Moto G62 5G	TRUE			
	Realme 10 Pro Plus	TRUE			
	Samsung Galaxy F23 5G (6GB RAM + 128GB)	TRUE			
	Apple iPhone 14	TRUE			

smartphones 227 x

Output

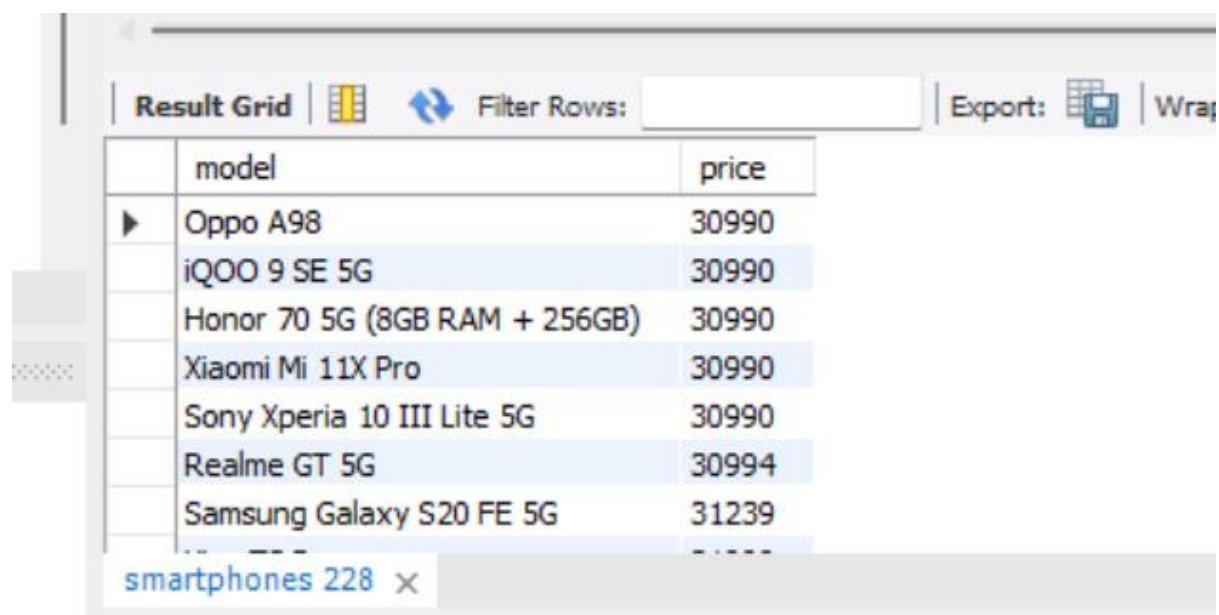
19. Find smartphones with a price greater than ₹30,000

```

SELECT

```

```
    model, price
FROM
    smartphones
WHERE
    price > 30000
ORDER BY price;
```



The screenshot shows a database query result grid with the following data:

	model	price
▶	Oppo A98	30990
	iQOO 9 SE 5G	30990
	Honor 70 5G (8GB RAM + 256GB)	30990
	Xiaomi Mi 11X Pro	30990
	Sony Xperia 10 III Lite 5G	30990
	Realme GT 5G	30994
	Samsung Galaxy S20 FE 5G	31239

At the bottom of the grid, there is a summary row: **smartphones 228** with a close button (x).

20.Display smartphones that have NFC but do not have an IR blaster

```
SELECT
    model, has_nfc, has_ir_blaster
FROM
    smartphones
WHERE
    has_nfc = 'true'
    AND has_ir_blaster = 'false';
```

Result Grid			
Filter Rows:		Export:	Wrap Cell Content:
model	has_nfc	has_ir_blaster	
OnePlus 11 5G	TRUE	FALSE	
Samsung Galaxy F23 5G (6GB RAM + 128GB)	TRUE	FALSE	
Apple iPhone 14	TRUE	FALSE	
Nothing Phone 1	TRUE	FALSE	
OnePlus Nord 2T 5G	TRUE	FALSE	
Oppo A78	TRUE	FALSE	
Samsung Galaxy S23 Ultra 5G	TRUE	FALSE	

21. Get all models with a rating above 8 and a price below ₹25,000

SELECT

model, rating, price

FROM

smartphones

WHERE

rating > 8 AND price < 25000;

Result Grid			
Filter Rows:		Export:	Wrap Cell Content:
model	rating	price	
OnePlus Nord CE 2 Lite 5G	8.1	19989	
Motorola Moto G62 5G	8.1	14999	
Realme 10 Pro Plus	8.2	24999	
Realme 10 Pro	8.2	18999	
OnePlus Nord CE 2 Lite 5G (8GB RAM + 128GB)	8.4	21995	
Realme 10 Pro (8GB RAM + 128GB)	8.4	19999	
Poco X5 Pro	8.1	20999	

22. List the top 5 most expensive smartphones

SELECT

model, SUM(price) AS price

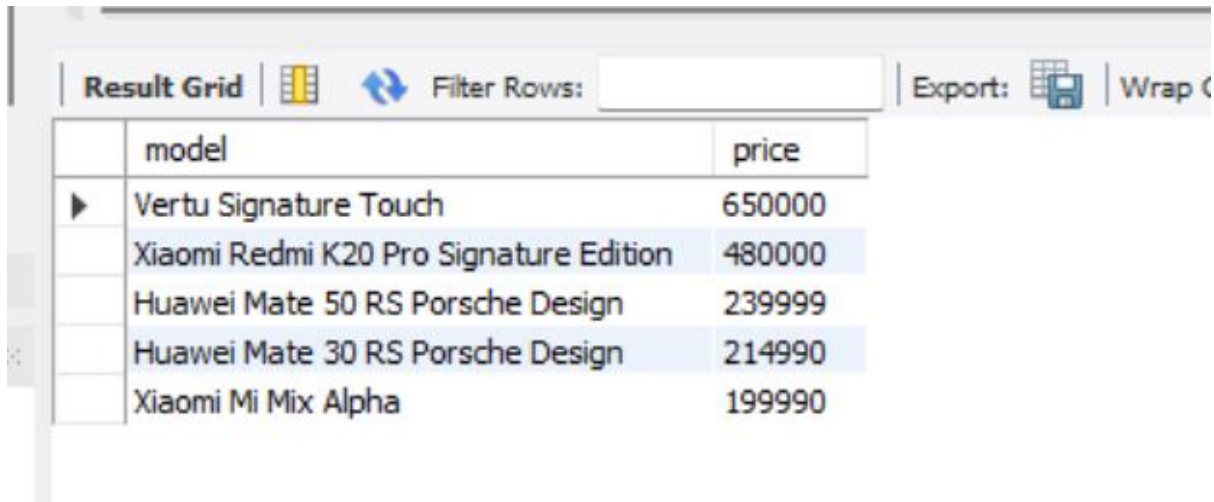
FROM

smartphones

GROUP BY model

ORDER BY price DESC

LIMIT 5;



The screenshot shows a database query result grid with the following data:

	model	price
▶	Vertu Signature Touch	650000
	Xiaomi Redmi K20 Pro Signature Edition	480000
	Huawei Mate 50 RS Porsche Design	239999
	Huawei Mate 30 RS Porsche Design	214990
	Xiaomi Mi Mix Alpha	199990

23. Find the average price of smartphones by each brand

SELECT

brand_name, ROUND(AVG(price), 2) AS avg_price

FROM

smartphones

GROUP BY brand_name

ORDER BY avg_price;

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	brand_name	avg_price		
▶	lyf	3940.00		
	itel	5811.00		
	letv	6165.67		
	gionee	6896.00		
	micromax	6929.33		
	jio	7159.25		
	ikall	7632.33		
	blackview	8990.00		
	tdl	8990.00		
	duoqin	9990.00		
	leeco	10000.00		

Result 233 x

24.How many smartphone models are available for each processor brand?

SELECT

processor_brand, COUNT(*) AS total_smartphones

FROM

smartphones

GROUP BY processor_brand

ORDER BY total_smartphones DESC;

Result Grid			Filter Rows:	Export:	Wrap Cell Cont
	processor_brand	total_smartphones			
▶	snapdragon	433			
	helio	201			
	dimensity	177			
	exynos	50			
	bionic	45			
	unisoc	26			
	tiger	24			
	google	9			
	kirin	7			
	spreadtrum	4			
	mediatek	3			

Result 234 x

24.What is the average battery capacity of smartphones with fast charging available?

SELECT

model,

ROUND(AVG(battery_capacity), 0) AS avg_battery_capacity,

fast_charging_available

FROM

smartphones

WHERE

fast_charging_available = '1'

GROUP BY model

ORDER BY avg_battery_capacity;

Result Grid			
	Filter Rows:	Export:	Wrap Cell Content:
	model	avg_battery_capacity	fast_charging_available
▶	Apple iPhone SE 2020	1821	1
	Apple iPhone 9	2050	1
	Apple iPhone 13 Mini	2438	1
	Google Pixel 4	2800	1
	TCL Ion X	3000	1
	Apple iPhone XR2	3060	1
	Apple iPhone 13 Pro	3095	1
	Apple iPhone 13 Pro (256GB)	3095	1
	Apple iPhone 13 Pro (1TB)	3095	1
	Samsung Galaxy A40	3100	1
	Apple iPhone 14 Pro	3200	1

26.count of smartphones grouped by number of rear cameras

SELECT

num_rear_cameras, COUNT(*) AS total_smartphones

FROM

smartphones

GROUP BY num_rear_cameras;

Result Grid		
	Filter Rows:	
	num_rear_cameras	total_smartphones
▶	3	551
	2	208
	4	156
	1	65

27.smartphones with rear camera with 64 mp and front camera

with 32 mp and price > 25000

SELECT

model, primary_camera_rear, primary_camera_front, price

FROM

smartphones

WHERE

primary_camera_rear = 64

AND primary_camera_front = 32

AND price > 25000

ORDER BY price;

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
model	primary_camera_rear	primary_camera_front	price
OPPO Reno7 5G	64	32	25994
OPPO Reno 6	64	32	26380
OPPO F22 Pro	64	32	27660
Realme X50 Pro 5G (12GB RAM + 256GB)	64	32	27999
Realme GT Master Edition 5G	64	32	27999
OPPO Reno 9 5G	64	32	28499
Realme 11 Pro	64	32	28999
POCO X5 GT	64	32	29990
Oppo Reno 5	64	32	29990
Vivo T3 Pro	64	32	31990
Motorola Moto Edge 30 Neo	64	32	31990

28.find the smartphones with battery capacity 5000,

storage 256, screen size greter than 6.7,

refresh rate with 120 and processor speed > 3?

SELECT

model,

battery_capacity,

internal_memory,

screen_size,

refresh_rate,

processor_speed

FROM

smartphones

WHERE

battery_capacity = 5000

AND internal_memory = 256

AND screen_size > 6.7

AND refresh_rate = 120

AND processor_speed > 3;

Result Grid						
		Filter Rows:	Export:		Wrap Cell Content:	
	model	battery_capacity	internal_memory	screen_size	refresh_rate	processor_speed
▶	Samsung Galaxy S23 Ultra 5G	5000	256	6.8	120	3.2
	Oppo Find N Fold	5000	256	7.1	120	3.2
	OPPO Reno 10 Pro	5000	256	6.73	120	3.05
	Nubia Red Magic 7S Pro	5000	256	6.8	120	3.2
	Nubia Red Magic 8 Pro Plus	5000	256	6.8	120	3.2
	iQOO Neo 7 Racing Edition	5000	256	6.78	120	3.2

29.Which screen refresh rate is most common among the smartphones?

SELECT

MODEL, refresh_rate, COUNT(*) count_frequency

FROM

smartphones

GROUP BY MODEL , refresh_rate

ORDER BY count_frequency DESC;

Result Grid			
Filter Rows:		Export:	Wrap Cell Content:
	MODEL	refresh_rate	count_frequency
▶	OnePlus 11 5G	120	1
	OnePlus Nord CE 2 Lite 5G	120	1
	Samsung Galaxy A14 5G	90	1
	Motorola Moto G62 5G	120	1
	Realme 10 Pro Plus	120	1
	Samsung Galaxy F23 5G (6GB RAM + 128GB)	120	1
	Apple iPhone 14	60	1
	Xiaomi Redmi Note 12 Pro Plus	120	1
	Nothing Phone 1	120	1
	OnePlus Nord 2T 5G	90	1
	Realme 10 Pro	120	1

30. List all brands that have more than 50 models

```

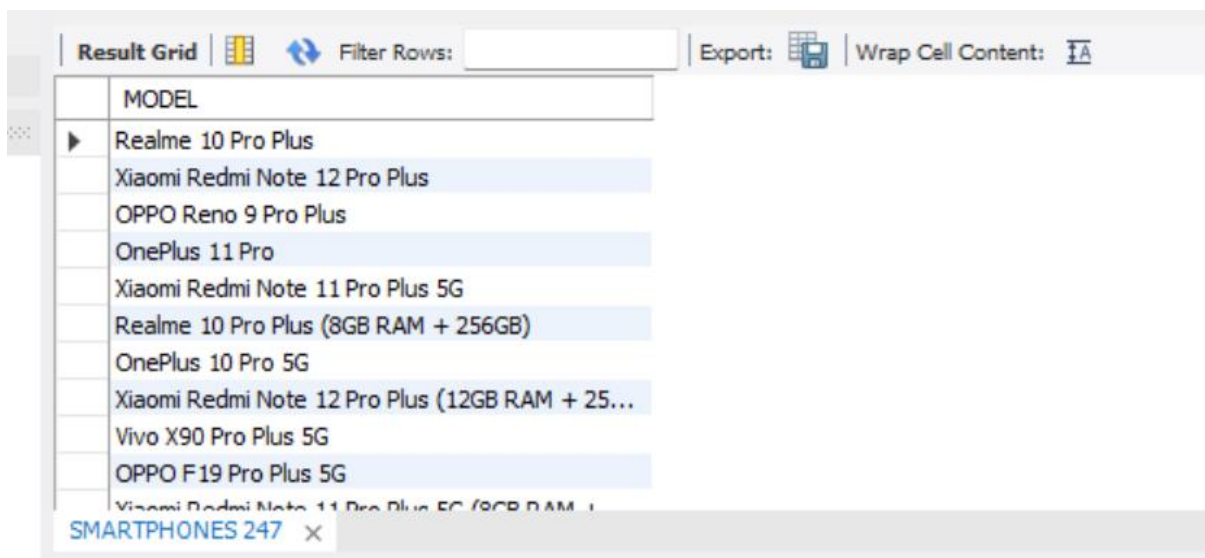
SELECT
    brand_name, COUNT(*) AS total_phones
FROM
    smartphones
GROUP BY brand_name
HAVING COUNT(MODEL) >= 50
ORDER BY total_phones;

```

Result Grid		
Filter Rows:		Export:
	brand_name	total_phones
▶	motorola	52
	oppo	88
	realme	97
	vivo	111
	samsung	132
	xiaomi	134

31. Find all smartphones with 'Pro' or 'Plus' in the model name

```
SELECT  
    MODEL  
FROM  
    SMARTPHONES  
WHERE  
    MODEL LIKE '%Pro%'  
    AND MODEL LIKE '%Plus%';
```



The screenshot shows a database query result grid with a toolbar at the top. The toolbar includes a 'Result Grid' tab, a 'Filter Rows' input field, an 'Export' button, and a 'Wrap Cell Content' button. The table has one column labeled 'MODEL'. The data rows list various smartphone models, many of which include 'Pro' or 'Plus' in their names. The models are: Realme 10 Pro Plus, Xiaomi Redmi Note 12 Pro Plus, OPPO Reno 9 Pro Plus, OnePlus 11 Pro, Xiaomi Redmi Note 11 Pro Plus 5G, Realme 10 Pro Plus (8GB RAM + 256GB), OnePlus 10 Pro 5G, Xiaomi Redmi Note 12 Pro Plus (12GB RAM + 25...), Vivo X90 Pro Plus 5G, and OPPO F19 Pro Plus 5G. A status bar at the bottom indicates 'SMARTPHONES 247' with a close button.

MODEL
Realme 10 Pro Plus
Xiaomi Redmi Note 12 Pro Plus
OPPO Reno 9 Pro Plus
OnePlus 11 Pro
Xiaomi Redmi Note 11 Pro Plus 5G
Realme 10 Pro Plus (8GB RAM + 256GB)
OnePlus 10 Pro 5G
Xiaomi Redmi Note 12 Pro Plus (12GB RAM + 25...
Vivo X90 Pro Plus 5G
OPPO F19 Pro Plus 5G
Xiaomi Redmi Note 11 Pro Plus 5G (8GB RAM + ...

32. Find the model with the highest rating

```
SELECT  
    model, rating  
FROM  
    smartphones  
WHERE  
    rating >= (SELECT
```

MAX(rating)

FROM

smartphones);

Result Grid		Filter Rows:	Export:	Wrap Cell Cont
	model	rating		
▶	OnePlus 11 5G	8.9		
	Samsung Galaxy S23 Plus	8.9		
	OnePlus 10 Pro 5G	8.9		
	Motorola Edge 30 Pro 5G	8.9		
	Infinix Zero Ultra	8.9		
	Motorola Moto X40	8.9		
	iQOO 11 Pro 5G	8.9		
	Xiaomi Redmi Note 12 Explorer	8.9		
	Tecno Phantom X2 Pro	8.9		
	Samsung Galaxy A53 (8GB RAM + 256GB)	8.9		
	Google Pixel 6 Pro	8.9		

smartphones 248 x

33. Get smartphones priced above the average price of all smartphones

SELECT

model, price

FROM

smartphones

WHERE

price > (SELECT

AVG(price)

FROM

smartphones);

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	model	price			
▶	OnePlus 11 5G	54999			
	Apple iPhone 14	65999			
	Samsung Galaxy S23 Ultra 5G	114990			
	Apple iPhone 13	62999			
	OPPO Reno 9 Pro Plus	45999			
	OnePlus 10R 5G	32999			
	OnePlus 11R	39999			
	Vivo V25 Pro 5G	35999			
	Vivo V26 Pro	42990			
	Apple iPhone 14 Pro Max	129990			
	OnePlus 11 Pro	60000			

smartphones 249 x

34.List smartphones whose RAM is greater than the average RAM capacity.

```

SELECT
    model, ram_capacity
FROM
    smartphones
WHERE
    ram_capacity > (SELECT
        AVG(ram_capacity)
    FROM
        smartphones);

```


Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	model	ram_capacity			
▶	OnePlus 11 5G	12			
	Xiaomi Redmi Note 12 Pro Plus	8			
	Nothing Phone 1	8			
	OnePlus Nord 2T 5G	8			
	Oppo A78	8			
	Samsung Galaxy S23 Ultra 5G	8			
	OPPO Reno 9 Pro Plus	16			
	OnePlus 10R 5G	8			
	OnePlus 11R	8			
	Vivo V25 Pro 5G	8			
	Vivo V25 Pro	12			

smartphones 251 x

35.find out budget,mindrange,premium smartphones if budget = <20000 , mindrange = 20000 - 30000 ,premium = 30000 - 50000 else ultra_premium

SELECT

MODEL,

PRICE,

CASE

WHEN PRICE < 20000 THEN 'budget'

WHEN PRICE BETWEEN 20000 AND 30000 THEN 'mindrange'

WHEN PRICE BETWEEN 30001 AND 50000 THEN 'premium'

ELSE 'Ultra Premium'

END AS SMARTPHONE_CATEGORY

FROM

SMARTPHONES;

Result Grid			
Filter Rows:		Export:	Wrap Cell Content: IA
	MODEL	PRICE	SMARTPHONE_CATEGORY
▶	OnePlus 11 5G	54999	Ultra Premium
	OnePlus Nord CE 2 Lite 5G	19989	budget
	Samsung Galaxy A14 5G	16499	budget
	Motorola Moto G62 5G	14999	budget
	Realme 10 Pro Plus	24999	mindrange
	Samsung Galaxy F23 5G (6GB RAM + 128GB)	16999	budget
	Apple iPhone 14	65999	Ultra Premium
	Xiaomi Redmi Note 12 Pro Plus	29999	mindrange
	Nothing Phone 1	26749	mindrange
	OnePlus Nord 2T 5G	28999	mindrange
	Realme 10 Pro	18000	budget

36.What percentage of total models belongs to each brand?

SELECT

 BRAND_NAME,

 COUNT(*) AS MODEL_COUNT,

 ROUND(COUNT(*) * 100 / (SELECT
 COUNT(*)

 FROM

 SMARTPHONES),

 2) AS percentage_share

FROM

 SMARTPHONES

GROUP BY BRAND_NAME

ORDER BY percentage_share DESC;

Result Grid			
		Filter Rows:	
		Export:	
		Wrap Cell Content:	
	BRAND_NAME	MODEL_COUNT	percentage_share
▶	xiaomi	134	13.67
	samsung	132	13.47
	vivo	111	11.33
	realme	97	9.90
	oppo	88	8.98
	motorola	52	5.31
	apple	46	4.69
	oneplus	42	4.29
	poco	41	4.18
	tecno	33	3.37
	honor	32	3.27

37.TOP 5 brands dominate the midrange segment 20K–30K

SELECT

BRAND_NAME, COUNT(*) TOTAL_MODEL_COUNT

FROM

SMARTPHONES

WHERE

PRICE BETWEEN 20000 AND 30000

GROUP BY BRAND_NAME

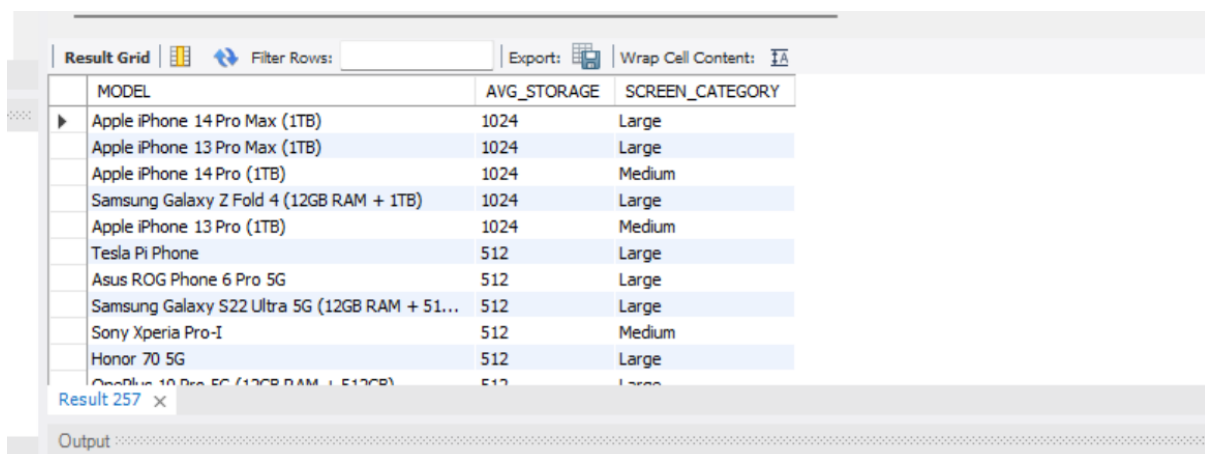
ORDER BY TOTAL_MODEL_COUNT DESC

LIMIT 5;

	BRAND_NAME	TOTAL_MODEL_COUNT
▶	vivo	29
	xiaomi	28
	realme	21
	oppo	20
	samsung	19

38.What is the average internal storage offered by smartphones in different screen size categories (Small, Medium, Large)?

```
SELECT
    MODEL,
    ROUND(AVG(INTERNAL_MEMORY)) AS AVG_STORAGE,
    CASE
        WHEN SCREEN_SIZE < 6.0 THEN 'Small'
        WHEN SCREEN_SIZE BETWEEN 6.0 AND 6.5 THEN 'Medium'
        ELSE 'Large'
    END AS SCREEN_CATEGORY
FROM
    SMARTPHONES
GROUP BY MODEL , SCREEN_CATEGORY
ORDER BY AVG_STORAGE DESC;
```



MODEL	AVG_STORAGE	SCREEN_CATEGORY
Apple iPhone 14 Pro Max (1TB)	1024	Large
Apple iPhone 13 Pro Max (1TB)	1024	Large
Apple iPhone 14 Pro (1TB)	1024	Medium
Samsung Galaxy Z Fold 4 (12GB RAM + 1TB)	1024	Large
Apple iPhone 13 Pro (1TB)	1024	Medium
Tesla Pi Phone	512	Large
Asus ROG Phone 6 Pro 5G	512	Large
Samsung Galaxy S22 Ultra 5G (12GB RAM + 512GB)	512	Large
Sony Xperia Pro-I	512	Medium
Honor 70 5G	512	Large
Google Pixel 6 Pro 5G (12GB RAM + 512GB)	512	Large

39.What is the most common internal storage configuration for each brand?

```
SELECT BRAND_NAME,INTERNAL_MEMORY,TOTAL_MODELS FROM
```

```

(SELECT BRAND_NAME,INTERNAL_MEMORY,COUNT(*) AS
TOTAL_MODELS,

ROW_NUMBER() OVER(PARTITION BY BRAND_NAME ORDER BY COUNT(*)
DESC) AS RN

FROM SMARTPHONES GROUP BY BRAND_NAME,INTERNAL_MEMORY) AS
RANKED_STORAGE

WHERE RN = 1 ORDER BY TOTAL_MODELS DESC;

```

Result Grid			
Filter Rows:		Export:	Wrap Cell Content: IA
	BRAND_NAME	INTERNAL_MEMORY	TOTAL_MODELS
▶	samsung	128	81
	xiaomi	128	77
	realme	128	56
	vivo	128	56
	oppo	128	48
	motorola	128	34
	oneplus	128	27
	poco	128	24
	iqoo	128	21
	apple	128	16
	honor	128	12