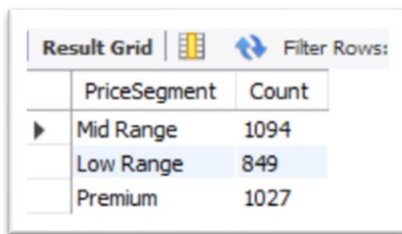


## 1. identify distinct price segments for mobiles in India?

Ans-

```
SELECT  
  
CASE  
  
    WHEN `Selling Price` < 10000 THEN 'Low Range'  
  
    WHEN `Selling Price` >= 10000 AND `Selling Price` < 20000 THEN 'Mid Range'  
  
    WHEN `Selling Price` >= 20000 THEN 'Premium'  
  
END AS PriceSegment,  
  
COUNT(*) AS Count  
  
FROM `flipkart mobile data`  
  
GROUP BY PriceSegment;
```



The screenshot shows a 'Result Grid' with a table containing two columns: 'PriceSegment' and 'Count'. The data is as follows:

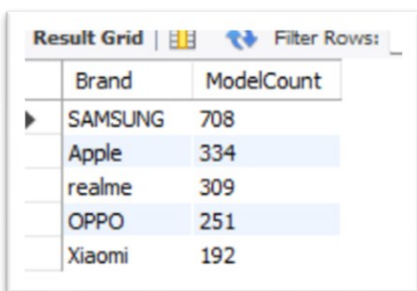
PriceSegment	Count
Mid Range	1094
Low Range	849
Premium	1027

## 2. Which brands have the highest and lowest numbers of product offerings?

i) Brands with the highest number of product offering

Ans-

```
SELECT Brand, COUNT(*) AS ModelCount  
  
FROM `flipkart mobile data`  
  
GROUP BY Brand  
  
ORDER BY ModelCount DESC  
  
LIMIT 5;
```



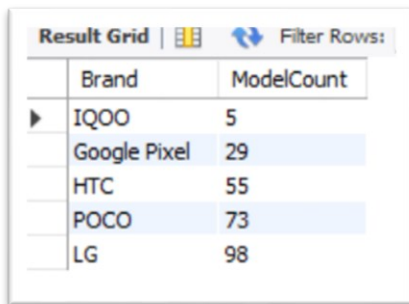
The screenshot shows a 'Result Grid' with a table containing two columns: 'Brand' and 'ModelCount'. The data is as follows:

Brand	ModelCount
SAMSUNG	708
Apple	334
realme	309
OPPO	251
Xiaomi	192

ii) Brands with the lowest number of product offering

**Ans-**

```
SELECT Brand, COUNT(*) AS ModelCount
FROM `flipkart mobile data`
GROUP BY Brand
ORDER BY ModelCount
LIMIT 5;
```



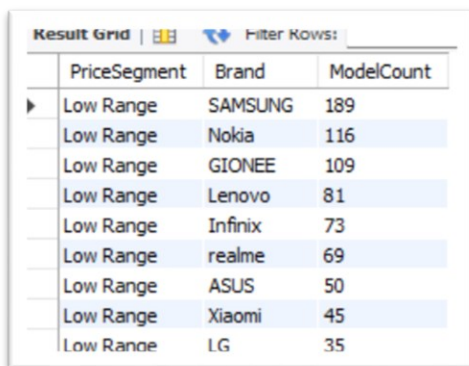
The screenshot shows a 'Result Grid' with a 'Filter Rows' button. The table has two columns: 'Brand' and 'ModelCount'. The data is as follows:

Brand	ModelCount
IQOO	5
Google Pixel	29
HTC	55
POCO	73
LG	98

### 3. Are there brands that dominate specific price ranges?

**Ans –**

```
SELECT
CASE
  WHEN `Selling Price` < 10000 THEN 'Low Range'
  WHEN `Selling Price` >= 10000 AND `Selling Price` < 20000 THEN 'Mid Range'
  WHEN `Selling Price` >= 20000 THEN 'Premium'
END AS PriceSegment,
Brand,
COUNT(*) AS ModelCount
FROM `flipkart mobile data`
GROUP BY PriceSegment, Brand
ORDER BY PriceSegment, ModelCount DESC;
```



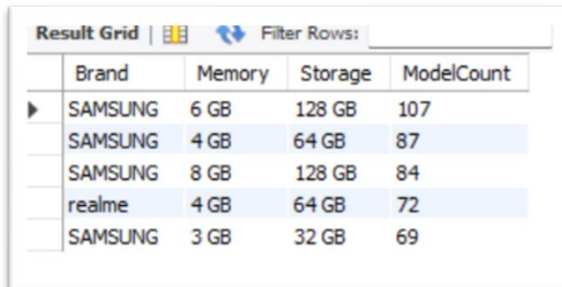
The screenshot shows a 'Result Grid' with a 'Filter Rows' button. The table has three columns: 'PriceSegment', 'Brand', and 'ModelCount'. The data is as follows:

PriceSegment	Brand	ModelCount
Low Range	SAMSUNG	189
Low Range	Nokia	116
Low Range	GIONEE	109
Low Range	Lenovo	81
Low Range	Infinix	73
Low Range	realme	69
Low Range	ASUS	50
Low Range	Xiaomi	45
Low Range	LG	35

4. What are the most common combinations of memory and storage across different brands?

Ans-

```
SELECT
  Brand,
  Memory,
  Storage,
  COUNT(*) AS ModelCount
FROM `flipkart mobile data`
GROUP BY Brand, Memory, Storage
ORDER BY ModelCount DESC
LIMIT 5;
```



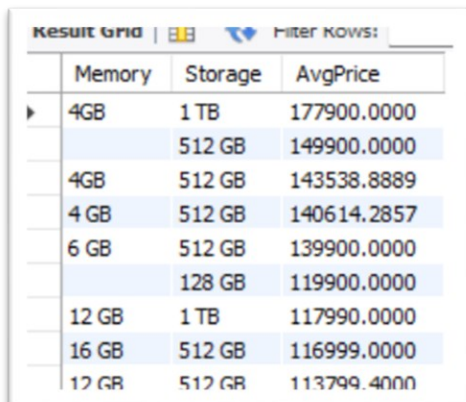
The screenshot shows a 'Result Grid' with a 'Filter Rows' button. The table has 5 columns: Brand, Memory, Storage, and ModelCount. The data is sorted by ModelCount in descending order.

	Brand	Memory	Storage	ModelCount
▶	SAMSUNG	6 GB	128 GB	107
	SAMSUNG	4 GB	64 GB	87
	SAMSUNG	8 GB	128 GB	84
	realme	4 GB	64 GB	72
	SAMSUNG	3 GB	32 GB	69

6. How does the pricing vary based on memory and storage configurations?

Ans-

```
SELECT
  Memory,
  Storage,
  AVG(`Selling Price`) AS AvgPrice
FROM `flipkart mobile data`
GROUP BY Memory, Storage
ORDER BY AvgPrice DESC;
```



The screenshot shows a 'Result Grid' with a 'Filter Rows' button. The table has 3 columns: Memory, Storage, and AvgPrice. The data is sorted by AvgPrice in descending order.

	Memory	Storage	AvgPrice
▶	4GB	1 TB	177900.0000
		512 GB	149900.0000
	4GB	512 GB	143538.8889
	4 GB	512 GB	140614.2857
	6 GB	512 GB	139900.0000
		128 GB	119900.0000
	12 GB	1 TB	117990.0000
	16 GB	512 GB	116999.0000
	12 GB	512 GB	113799.4000

**7. Which brands are offering premium mobiles, and what are the common specifications of these premium models?**

Ans-

```
SELECT
```

```
    Brand,
```

```
    Memory,
```

```
    Storage,
```

```
    AVG(`Selling Price`) AS AvgPrice
```

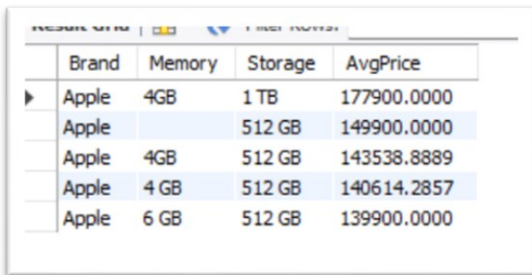
```
FROM `flipkart mobile data`
```

```
WHERE `Selling Price` >= 20000
```

```
GROUP BY Brand, Memory, Storage
```

```
ORDER BY AvgPrice DESC
```

```
LIMIT 5;
```



The screenshot shows a database query result with the following columns: Brand, Memory, Storage, and AvgPrice. The results are ordered by AvgPrice in descending order. The top 5 results are all from the brand 'Apple'.

	Brand	Memory	Storage	AvgPrice
▶	Apple	4GB	1 TB	177900.0000
	Apple		512 GB	149900.0000
	Apple	4GB	512 GB	143538.8889
	Apple	4 GB	512 GB	140614.2857
	Apple	6 GB	512 GB	139900.0000

**8. Top brands with the highest average selling prices for premium models.**

Ans-

```
SELECT
```

```
    Brand,
```

```
    AVG(`Selling Price`) AS AvgPrice
```



```
FROM `flipkart mobile data`
```

```
WHERE `Selling Price` >= 20000
```

```
GROUP BY Brand
```

```
ORDER BY AvgPrice DESC
```

```
LIMIT 5;
```

Result Grid     Filter Rows: <input type="text"/>		
	Brand	AvgPrice
▶	Apple	75310.5150
	Google Pixel	63155.8571
	SAMSUNG	45961.5038
	ASUS	43878.1667
	HTC	41815.0000

**9. What are the most commonly offered colors by all brands?**

**Ans-**

SELECT

Color,



COUNT(\*) AS ModelCount

FROM `flipkart mobile data`

GROUP BY Color

ORDER BY ModelCount DESC

LIMIT 5;

Result Grid     Filter Rows: <input type="text"/>		
	Color	ModelCount
▶	Black	473
	Gold	188
	White	153
	Blue	134
	Silver	94

**10. Is there a correlation between color popularity and pricing?**

**Ans-**

SELECT

Color,



AVG(`Selling Price`) AS AvgPrice

FROM `flipkart mobile data`

GROUP BY Color

ORDER BY AvgPrice DESC

LIMIT 5;

Result Grid     Filter Rows: <input type="text"/>		
	Color	AvgPrice
▶	Sierra Blue	159900.0000
	Phantom Green	149999.0000
	Alpine Green	147900.0000
	Graphite	130362.7273
	Pacific Blue	125900.0000

**11. Choose unique brands and compare them based on the number of models, average prices, and average ratings.**

**Ans-**

SELECT

Brand,

COUNT(\*) AS NumberOfModels,

AVG(`Selling Price`) AS AvgPrice,




AVG(Rating) AS AvgRating

FROM `flipkart mobile data`

GROUP BY Brand

ORDER BY AvgPrice DESC

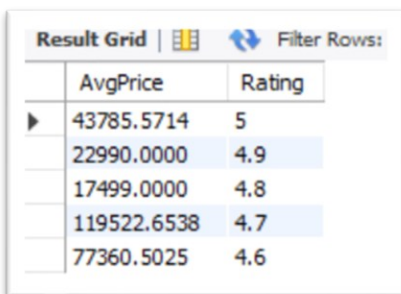
LIMIT 5;

Result Grid     Filter Rows: <input type="text"/>   Export:    Wrap (				
	Brand	NumberOfModels	AvgPrice	AvgRating
▶	Apple	334	75310.5150	4.570059880239531
	Google Pixel	29	61391.8621	4.506896551724138
	IQOO	5	37190.0000	4.4
	HTC	55	28314.3818	3.969090909090911
	vivo	116	24081.8448	4.382758620689654

**13. Do higher-rated mobiles tend to be more expensive?**

**Ans-**

```
SELECT  
    AVG(`Selling Price`) AS AvgPrice,  
    Rating  
FROM `flipkart mobile data`  
WHERE Rating IS NOT NULL  
GROUP BY Rating  
ORDER BY Rating DESC LIMIT 5;
```



The screenshot shows a 'Result Grid' window with a table containing 5 rows of data. The columns are 'AvgPrice' and 'Rating'. The data is sorted by Rating in descending order. The first row has a Rating of 5 and an AvgPrice of 43785.5714. The subsequent rows have ratings of 4.9, 4.8, 4.7, and 4.6.

AvgPrice	Rating
43785.5714	5
22990.0000	4.9
17499.0000	4.8
119522.6538	4.7
77360.5025	4.6

**15. Identify the most common specifications (memory, storage) across all brands.**

**Ans-**

```
SELECT  
    Memory,  
    Storage,  
    COUNT(*) AS ModelCount  
FROM `flipkart mobile data`  
GROUP BY Memory, Storage  
ORDER BY ModelCount DESC  
LIMIT 5;
```

Result Grid   Filter Rows:				
	Brand	Memory	Storage	ModelCount
▶	SAMSUNG	6 GB	128 GB	107
	SAMSUNG	4 GB	64 GB	87
	SAMSUNG	8 GB	128 GB	84
	realme	4 GB	64 GB	72
	SAMSUNG	3 GB	32 GB	69

## 16. Analyze the features of the top-rated mobiles.

Ans-

SELECT

Brand,

Model,

Memory,

Storage,

Rating,

`Selling Price`

FROM `flipkart mobile data`

WHERE Rating IS NOT NULL

ORDER BY Rating DESC, `Selling Price` DESC

LIMIT 5;

Result Grid   Filter Rows:   Export:   v						
	Brand	Model	Memory	Storage	Rating	Selling Price
▶	Apple	iPhone 7 Plus	3 GB	256 GB	5	85400
	Apple	iPhone 7 Plus	3 GB	256 GB	5	85400
	vivo	X60 Pro	12 GB	256 GB	5	48780
	vivo	X50	8 GB	256 GB	5	44990
	vivo	Z1x	6 GB	64 GB	5	19990



### 17. What specifications do customers appreciate the most?

Ans-

```
SELECT
```

```
Memory,
```

```
Storage,
```

```
AVG(Rating) AS AvgRating,
```

```
COUNT(*) AS ModelCount
```

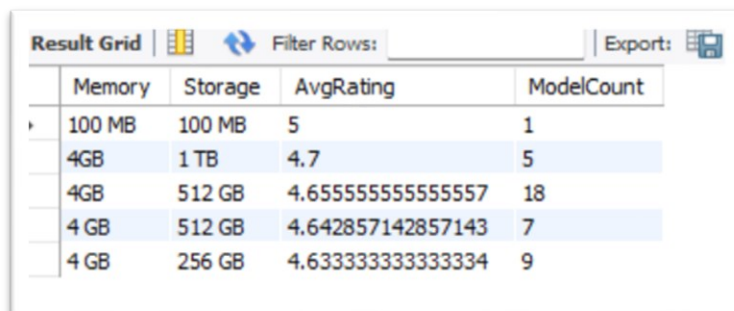
```
FROM `flipkart mobile data`
```

```
WHERE Rating IS NOT NULL
```

```
GROUP BY Memory, Storage
```

```
ORDER BY AvgRating DESC, ModelCount DESC
```

```
LIMIT 5;
```



The screenshot shows a 'Result Grid' interface with a table of 5 rows and 4 columns: Memory, Storage, AvgRating, and ModelCount. The table is sorted by AvgRating in descending order. The first row has a small expand/collapse icon to its left. The interface includes a 'Filter Rows' input field and an 'Export' button with a download icon.

	Memory	Storage	AvgRating	ModelCount
▾	100 MB	100 MB	5	1
	4GB	1 TB	4.7	5
	4GB	512 GB	4.655555555555557	18
	4 GB	512 GB	4.642857142857143	7
	4 GB	256 GB	4.633333333333334	9