

-- □ Find top 3 brands with the highest average price.
-- (Use GROUP BY, ORDER BY, LIMIT)
SELECT brand, AVG(price) AS avgprice
FROM mobiles
GROUP BY brand
ORDER BY avgprice DESC
LIMIT 3;

The screenshot shows a database query results grid titled "Result Grid". The grid has two columns: "brand" and "avgprice". The data rows are: Apple (78199.000000), Samsung (49499.000000), and OnePlus (45399.000000). There are navigation arrows on the left side of the grid.

	brand	avgprice
▶	Apple	78199.000000
	Samsung	49499.000000
	OnePlus	45399.000000

-- □ Show brands that have more than 5 models launched after 2021.
-- (Use GROUP BY, HAVING)

```
select brand,count(model)
from mobiles
WHERE release_year < 2021
group by brand
having count(model)>5
```

The screenshot shows a database query results grid titled "Result Grid". The grid has two columns: "brand" and "count(model)". There is one data row: brand (Samsung) and count(model) (5). There are navigation arrows on the left side of the grid.

	brand	count(model)
	Samsung	5

-- □ Display top 5 brands with the highest average rating above 4.5.
-- Use GROUP BY, HAVING, ORDER BY, LIMIT)

```
SELECT brand, AVG(rating) AS avg_rating
FROM mobiles
WHERE rating > 4.5
```

```
GROUP BY brand  
HAVING AVG(rating) > 4.5  
ORDER BY avg_rating DESC  
LIMIT 5;
```

brand	avg_rating
Apple	4.90000
Samsung	4.83333
OnePlus	4.76667
Xiaomi	4.70000
Realme	4.70000

-- □ List brands along with their total mobile count, ordered by total count descending.
-- (Use GROUP BY, ORDER BY)

```
SELECT brand, COUNT(model) AS counts  
FROM mobiles  
GROUP BY brand  
ORDER BY counts DESC;
```

	brand	counts
▶	Samsung	5
	Apple	5
	OnePlus	5
	Xiaomi	5
	Realme	5
	Vivo	5
	Oppo	5
	Poco	5
	Motorola	5
	Infinix	5

-- □ Find brands whose total storage capacity exceeds 1000 GB, ordered by total storage descending.
-- (Use GROUP BY, HAVING, ORDER BY)

```
SELECT brand, SUM(storage) AS sum_S  
FROM mobiles  
GROUP BY brand  
HAVING sum_S > 1000  
ORDER BY sum_S DESC;
```

	brand	sum_S
--	-------	-------

-- □ Show the 5 cheapest average-priced brands, skipping the first 2 results.
-- (Use GROUP BY, ORDER BY, LIMIT, OFFSET)
select brand , avg(price)
from mobiles
group by brand
order by avg(price) asc limit 5
offset 3;

	brand	avg_price
▶	Vivo	24599.000000
	Realme	22999.000000
	Motorola	20599.000000
	Poco	17799.000000
	Infinix	17199.000000

-- □ Display top 5 brands with the most models rated above 4.5.
-- (Use GROUP BY, HAVING, ORDER BY, LIMIT)

```
SELECT brand, COUNT(model) AS high_rating_models
FROM mobiles
WHERE rating > 4.5
GROUP BY brand
ORDER BY high_rating_models DESC
LIMIT 5;
```

	brand	high_rating_models
▶	Samsung	3
	OnePlus	3
	Realme	3
	Apple	2
	Vivo	2

-- □ Find top 3 brands whose average price is above ₹50,000 and order by their average rating.
-- (Use GROUP BY, HAVING, ORDER BY, LIMIT)
SELECT brand,
 AVG(price) AS avg_price,
 AVG(rating) AS avg_rating
FROM mobiles

```
GROUP BY brand  
HAVING AVG(price) > 50000  
ORDER BY avg_rating DESC  
LIMIT 3;
```

	brand	avg_price	avg_rating
▶	Apple	78199.000000	4.54000

```
-- □ List brands released after 2020 that have an average rating greater than 4.3, show top 5 only.  
-- (Use GROUP BY, HAVING, ORDER BY, LIMIT)  
SELECT brand,  
       AVG(rating) AS avg_rating  
FROM mobiles  
WHERE release_year > 2020  
GROUP BY brand  
HAVING AVG(rating) > 4.3  
ORDER BY avg_rating DESC  
LIMIT 5;
```

	brand	avg_rating
▶	Samsung	4.70000
	OnePlus	4.66000
	Realme	4.62000
	Vivo	4.58000
	Oppo	4.58000

```
-- 10 Show brands that launched more than 3 mobiles in 2023 and sort them by average price descending.  
SELECT brand, COUNT(model) AS total_models, AVG(price) AS avg_price  
FROM mobiles  
WHERE release_year = 2023  
GROUP BY brand  
HAVING COUNT(model) > 3  
ORDER BY avg_price DESC;
```

	brand	total_models	avg_price
▶			

```
-- □□ Display top 10 models (by price) for brands with an average rating above 4.5, skipping first 5.
```

```

SELECT brand, model, price
FROM mobiles
WHERE brand IN (
    SELECT brand FROM mobiles
    GROUP BY brand
    HAVING AVG(rating) > 4.5
)
ORDER BY price DESC
LIMIT 10 OFFSET 5;

```

	brand	model	price
▶	Xiaomi	Mi 13 Pro	69999.00
	OnePlus	12	65999.00
	OnePlus	11	59999.00
	Apple	iPhone 13	58999.00
	Apple	iPhone 12	51999.00
	OnePlus	12R	45999.00
	Samsung	A55	35999.00
	Oppo	Reno 10	34999.00
	Oppo	Reno 11	32999.00
	Vivo	V29	32999.00

-- □□ Show top 5 brands that have the highest average RAM size and an average rating above 4.4.

```

SELECT brand, AVG(ram) AS avg_ram, AVG(rating) AS avg_rating
FROM mobiles
GROUP BY brand
HAVING AVG(rating) > 4.4
ORDER BY avg_ram DESC
LIMIT 5;

```

	brand	avg_ram	avg_rating
▶	OnePlus	9.6	4.66000
	Vivo	8.8	4.58000
	Realme	8.4	4.62000
	Samsung	8	4.64000
	Oppo	8	4.58000

-- □□ List 3 most recent brands (by latest year) whose average price is below ₹30,000.

```

SELECT brand, MAX(release_year) AS latest_year, AVG(price) AS avg_price
FROM mobiles
GROUP BY brand
HAVING AVG(price) < 30000
ORDER BY latest_year DESC
LIMIT 3;

```

	brand	latest_year	avg_price
▶	Realme	2025	22999.000000
	Vivo	2025	24599.000000
	Oppo	2025	25199.000000

-- □□ Show all brands having average rating > 4.5 and total models between 2 and 5, sorted by rating descending.

```
SELECT brand, COUNT(model) AS total_models, AVG(rating) AS avg_rating
FROM mobiles
GROUP BY brand
HAVING AVG(rating) > 4.5 AND COUNT(model) BETWEEN 2 AND 5
ORDER BY avg_rating DESC;
```

	brand	total_models	avg_rating
▶	OnePlus	5	4.66000
	Samsung	5	4.64000
	Realme	5	4.62000
	Vivo	5	4.58000
	Oppo	5	4.58000
	Apple	5	4.54000
	Xiaomi	5	4.54000
	Motorola	5	4.52000

-- □□ Display top 5 brands with highest total RAM capacity, skipping the top 2.

```
SELECT brand, SUM(ram) AS total_ram
FROM mobiles
GROUP BY brand
ORDER BY total_ram DESC
LIMIT 5 OFFSET 2;
```

	brand	total_ram
▶	Realme	42
	Samsung	40
	Oppo	40
	Xiaomi	38
	Motorola	36

-- □□ Find the top 3 years having the most mobile launches, ordered by total mobiles descending.

```
SELECT release_year, COUNT(model) AS total_launches
FROM mobiles
GROUP BY release_year
ORDER BY total_launches DESC
LIMIT 3;
```

	release_year	total_launches
▶	2024	17
	2021	17
	2025	10

-- □□ Show 5 brands with maximum storage combinations, only if average rating > 4.3.
SELECT brand, COUNT(DISTINCT storage) AS storage_types, AVG(rating) AS avg_rating
FROM mobiles
GROUP BY brand
HAVING AVG(rating) > 4.3
ORDER BY storage_types DESC
LIMIT 5;

	brand	storage_types	avg_rating
▶	Infinix	3	4.42000
	Motorola	3	4.52000
	Samsung	3	4.64000
	Apple	2	4.54000
	OnePlus	2	4.66000

-- □□ Find 5 most expensive brands based on average price, skipping first 5 results.
SELECT brand, AVG(price) AS avg_price
FROM mobiles
GROUP BY brand
ORDER BY avg_price DESC
LIMIT 5 OFFSET 5;

	brand	avg_price
▶	Vivo	24599.000000
	Realme	22999.000000
	Motorola	20599.000000
	Poco	17799.000000
	Infinix	17199.000000

-- □□ Display brands having average RAM \geq 8GB and order them by average price descending (top 5 only).
SELECT brand, AVG(ram) AS avg_ram, AVG(price) AS avg_price
FROM mobiles
GROUP BY brand
HAVING AVG(ram) \geq 8
ORDER BY avg_price DESC
LIMIT 5;

	brand	avg_ram	avg_price
▶	Samsung	8	49499.000000
	OnePlus	9.6	45399.000000
	Oppo	8	25199.000000
	Vivo	8.8	24599.000000
	Realme	8.4	22999.000000

-- □□ Show brands with highest number of models (more than 4), sorted by their total storage, skip first 2.

```
SELECT brand, COUNT(model) AS total_models, SUM(storage) AS total_storage
FROM mobiles
GROUP BY brand
HAVING COUNT(model) > 4
ORDER BY total_storage DESC
LIMIT 5 OFFSET 2;
```

	brand	total_models	total_storage
▶	Xiaomi	5	1024
	Realme	5	1024
	Motorola	5	960
	Vivo	5	896
	Oppo	5	896