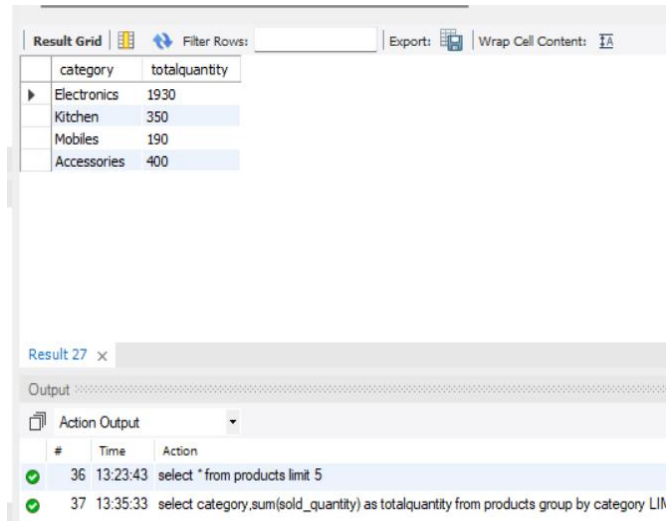**Questions on GROUP BY**

1.Find the total sold_quantity of products for each category.

select category, sum(sold_quantity) as totalquantity

from products

group by category;

category	totalquantity
Electronics	1930
Kitchen	350
Mobiles	190
Accessories	400

Result 27 ✕

Output

Action Output ▾

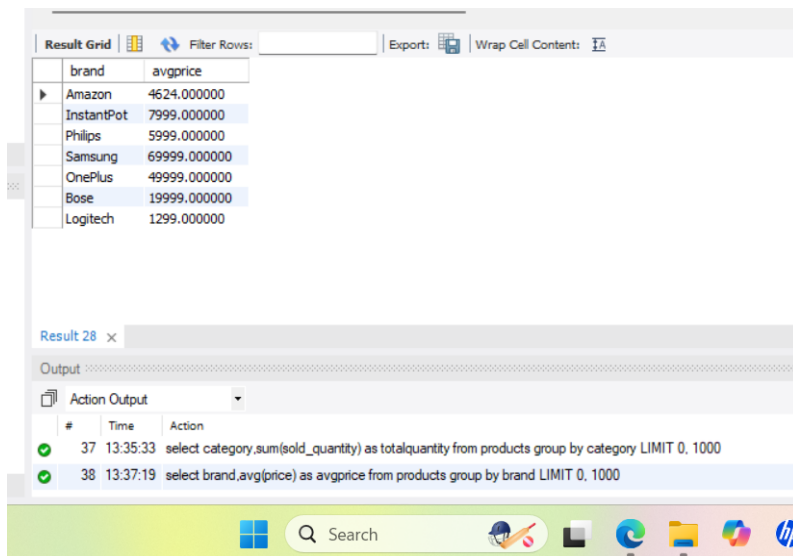|	#	Time	Action
✅	36	13:23:43	select * from products limit 5
✅	37	13:35:33	select category,sum(sold_quantity) as totalquantity from products group by category LIM

2. Find the average price of products for each brand.

select brand, avg(price) as avgprice

 from products

 group by brand;

brand	avgprice
Amazon	4624.000000
InstantPot	7999.000000
Philips	5999.000000
Samsung	69999.000000
OnePlus	49999.000000
Bose	19999.000000
Logitech	1299.000000

Result 28 ✕

Output

Action Output ▾

	#	Time	Action
✅	37	13:35:33	select category,sum(sold_quantity) as totalquantity from products group by category LIMIT 0, 1000
✅	38	13:37:19	select brand,avg(price) as avgprice from products group by brand LIMIT 0, 1000

Q Search

3. Count how many products are available in each category.

```
33
34 •    select category, count(product_name) as product_count from products group by category;
35
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

category	product_count
Electronics	5
Kitchen	2
Mobiles	2
Accessories	1

4. Find the maximum rating of products for each category.

select category, max(rating) as maxrating

from products

group by category;

Result Grid | Filter Rows: | Export: | Wrap

category	maxrating
Electronics	4.8
Kitchen	4.7
Mobiles	4.8
Accessories	4.3

5. Find the minimum price of products for each brand.

select brand, min(price) as minprice

from products

group by brand;

```
32
33 •    select brand,min(price) as minprice from products group by brand;
34
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

brand	minprice
Amazon	999.00
InstantPot	7999.00
Philips	5999.00
Samsung	69999.00
OnePlus	49999.00
Bose	19999.00
Logitech	1299.00

Questions on HAVING

1.Find all categories where the total sold_quantity is greater than 1000.

```
36
37      -- QUESTION ON HAVING
38 •    select category from products group by category having sum(sold_quantity )>1000;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: A̲

category
Electronics

2. Find brands where the average price of products is more than 10000.

```
44
45
46 •    select brand from products group by brand having avg(price) >10000;
47
48
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: A̲

brand
Samsung
OnePlus
Bose

3. Find categories where the maximum rating is greater than 4.7.

```
46
47 •    select category from products group by category having max(rating) > 4.7;
48
49
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: A̲

category
Electronics
Mobiles

4. Find brands where the count of products is more than 2.

```
48
49 •    select brand from products group by brand having count(product_id)>2;
50     |
51
52
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

brand
▶ Amazon

5. Find categories where the sum of stock is less than 200.

```
48
49
50 •    select category from products group by category having sum(stock) < 200;
51
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

category
▶ Kitchen
Mobiles

Questions on ORDER BY

1.List all products ordered by price ascending.

```
45      -- Questions on ORDER BY |
46 ●    select * from products order by price asc;
47
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: IA

product_id	product_name	category	price	rating	stock	brand	sold_quantity
10	Amazon Basics Bag	Accessories	999.00	4.3	300	Amazon	400
9	Logitech Mouse	Electronics	1299.00	4.4	200	Logitech	600
1	Echo Dot	Electronics	3499.00	4.6	120	Amazon	500
3	Fire TV Stick	Electronics	3999.00	4.5	50	Amazon	450
5	Air Fryer	Kitchen	5999.00	4.6	40	Philips	150
4	Instant Pot Duo	Kitchen	7999.00	4.7	30	InstantPot	200
2	Kindle Paperwhite	Electronics	9999.00	4.8	80	Amazon	300
8	Bose Headphones	Electronics	19999.00	4.5	15	Bose	80
7	OnePlus 11	Mobiles	49999.00	4.7	20	OnePlus	90
6	Samsung Galaxy S23	Mobiles	69999.00	4.8	25	Samsung	100
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

products 39 ×

2. Show all products ordered by sold_quantity descending.

```
57 ●    select * from products order by sold_quantity desc;
58
59
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: IA

product_id	product_name	category	price	rating	stock	brand	sold_quantity
9	Logitech Mouse	Electronics	1299.00	4.4	200	Logitech	600
1	Echo Dot	Electronics	3499.00	4.6	120	Amazon	500
3	Fire TV Stick	Electronics	3999.00	4.5	50	Amazon	450
10	Amazon Basics Bag	Accessories	999.00	4.3	300	Amazon	400
2	Kindle Paperwhite	Electronics	9999.00	4.8	80	Amazon	300
4	Instant Pot Duo	Kitchen	7999.00	4.7	30	InstantPot	200
5	Air Fryer	Kitchen	5999.00	4.6	40	Philips	150
6	Samsung Galaxy S23	Mobiles	69999.00	4.8	25	Samsung	100
7	OnePlus 11	Mobiles	49999.00	4.7	20	OnePlus	90
8	Bose Headphones	Electronics	19999.00	4.5	15	Bose	80
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

products 42 ×

3. Display products ordered by rating descending and then price ascending.

```
58
59 •    select  * from products order by  rating desc,price asc;
60
61
```

product_id	product_name	category	price	rating	stock	brand	sold_quantity
2	Kindle Paperwhite	Electronics	9999.00	4.8	80	Amazon	300
6	Samsung Galaxy S23	Mobiles	69999.00	4.8	25	Samsung	100
4	Instant Pot Duo	Kitchen	7999.00	4.7	30	InstantPot	200
7	OnePlus 11	Mobiles	49999.00	4.7	20	OnePlus	90
1	Echo Dot	Electronics	3499.00	4.6	120	Amazon	500
5	Air Fryer	Kitchen	5999.00	4.6	40	Philips	150
3	Fire TV Stick	Electronics	3999.00	4.5	50	Amazon	450
8	Bose Headphones	Electronics	19999.00	4.5	15	Bose	80
9	Logitech Mouse	Electronics	1299.00	4.4	200	Logitech	600
10	Amazon Basics Bag	Accessories	999.00	4.3	300	Amazon	400
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

products 43 ×

4. List all products ordered by category ascending and sold_quantity descending.

```
67
68 •    select * from products order by category asc,sold_quantity desc;
69
70
71
72
73
74
```

product_id	product_name	category	price	rating	stock	brand	sold_quantity
10	Amazon Basics Bag	Accessories	999.00	4.3	300	Amazon	400
9	Logitech Mouse	Electronics	1299.00	4.4	200	Logitech	600
1	Echo Dot	Electronics	3499.00	4.6	120	Amazon	500
3	Fire TV Stick	Electronics	3999.00	4.5	50	Amazon	450
2	Kindle Paperwhite	Electronics	9999.00	4.8	80	Amazon	300
8	Bose Headphones	Electronics	19999.00	4.5	15	Bose	80
4	Instant Pot Duo	Kitchen	7999.00	4.7	30	InstantPot	200
5	Air Fryer	Kitchen	5999.00	4.6	40	Philips	150
6	Samsung Galaxy S23	Mobiles	69999.00	4.8	25	Samsung	100
7	OnePlus 11	Mobiles	49999.00	4.7	20	OnePlus	90
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

5. Show all products ordered by brand alphabetically.

```
76 •    select * from products order by brand asc;
77
```

product_id	product_name	category	price	rating	stock	brand	sold_quantity
1	Echo Dot	Electronics	3499.00	4.6	120	Amazon	500
2	Kindle Paperwhite	Electronics	9999.00	4.8	80	Amazon	300
3	Fire TV Stick	Electronics	3999.00	4.5	50	Amazon	450
10	Amazon Basics Bag	Accessories	999.00	4.3	300	Amazon	400
8	Bose Headphones	Electronics	19999.00	4.5	15	Bose	80
4	Instant Pot Duo	Kitchen	7999.00	4.7	30	InstantPot	200
9	Logitech Mouse	Electronics	1299.00	4.4	200	Logitech	600
7	OnePlus 11	Mobiles	49999.00	4.7	20	OnePlus	90
5	Air Fryer	Kitchen	5999.00	4.6	40	Philips	150
6	Samsung Galaxy S23	Mobiles	69999.00	4.8	25	Samsung	100
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

products 45 ×

Questions on LIMIT

1.Show the first 5 products in the table.

```
54
55      -- Questions on LIMIT
56 •    select * from products limit 5;
57
```

product_id	product_name	category	price	rating	stock	brand	sold_quantity
1	Echo Dot	Electronics	3499.00	4.6	120	Amazon	500
2	Kindle Paperwhite	Electronics	9999.00	4.8	80	Amazon	300
3	Fire TV Stick	Electronics	3999.00	4.5	50	Amazon	450
4	Instant Pot Duo	Kitchen	7999.00	4.7	30	InstantPot	200
5	Air Fryer	Kitchen	5999.00	4.6	40	Philips	150
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

products 10 ×

Output

Action Output

#	Time	Action
✔	15 15:05:36	select * from products order by price desc limit 3
✔	16 15:06:54	select * from products limit 5

Q Search

2. Show the top 3 highest-priced products.

```
58
59 •     select * from products order by price desc limit 3;
60
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

product_id	product_name	category	price	rating	stock	brand	sold_quantity
6	Samsung Galaxy S23	Mobiles	69999.00	4.8	25	Samsung	100
7	OnePlus 11	Mobiles	49999.00	4.7	20	OnePlus	90
8	Bose Headphones	Electronics	19999.00	4.5	15	Bose	80
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

3. Show the first 5 products when ordered by rating descending.

```
59
60 •     select * from products order by rating desc limit 5;
61
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Fetch rows:

product_id	product_name	category	price	rating	stock	brand	sold_quantity
2	Kindle Paperwhite	Electronics	9999.00	4.8	80	Amazon	300
6	Samsung Galaxy S23	Mobiles	69999.00	4.8	25	Samsung	100
4	Instant Pot Duo	Kitchen	7999.00	4.7	30	InstantPot	200
7	OnePlus 11	Mobiles	49999.00	4.7	20	OnePlus	90
1	Echo Dot	Electronics	3499.00	4.6	120	Amazon	500
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

products 12 ×   Apply

Output

Action Output   ▼

\#   Time   Action   Message

4. Show 2 products after skipping the first 5 rows.

```
61
62 ●    select * from products limit 2 offset 5;
63
```

product_id	product_name	category	price	rating	stock	brand	sold_quantity
▶ 6	Samsung Galaxy S23	Mobiles	69999.00	4.8	25	Samsung	100
7	OnePlus 11	Mobiles	49999.00	4.7	20	OnePlus	90
* NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

5. Display the top 10 products with highest sold_quantity.

```
63
64 ●    select * from products order by sold_quantity desc limit 10;
65
66
67
68
```

product_id	product_name	category	price	rating	stock	brand	sold_quantity
▶ 9	Logitech Mouse	Electronics	1299.00	4.4	200	Logitech	600
1	Echo Dot	Electronics	3499.00	4.6	120	Amazon	500
3	Fire TV Stick	Electronics	3999.00	4.5	50	Amazon	450
10	Amazon Basics Bag	Accessories	999.00	4.3	300	Amazon	400
2	Kindle Paperwhite	Electronics	9999.00	4.8	80	Amazon	300
4	Instant Pot Duo	Kitchen	7999.00	4.7	30	InstantPot	200
5	Air Fryer	Kitchen	5999.00	4.6	40	Philips	150
6	Samsung Galaxy S23	Mobiles	69999.00	4.8	25	Samsung	100
7	OnePlus 11	Mobiles	49999.00	4.7	20	OnePlus	90
8	Bose Headphones	Electronics	19999.00	4.5	15	Bose	80
* NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

products 15 ×

Output

Questions on ASC / DESC

1. Show all products sorted by price ascending.

```
60      -- Questions on ASC / DESC
61 •    select * from products order by price asc;
62
63
```

	product_id	product_name	category	price	rating	stock	brand	sold_quantity
▶	10	Amazon Basics Bag	Accessories	999.00	4.3	300	Amazon	400
	9	Logitech Mouse	Electronics	1299.00	4.4	200	Logitech	600
	1	Echo Dot	Electronics	3499.00	4.6	120	Amazon	500
	3	Fire TV Stick	Electronics	3999.00	4.5	50	Amazon	450
	5	Air Fryer	Kitchen	5999.00	4.6	40	Philips	150
	4	Instant Pot Duo	Kitchen	7999.00	4.7	30	InstantPot	200
	2	Kindle Paperwhite	Electronics	9999.00	4.8	80	Amazon	300
	8	Bose Headphones	Electronics	19999.00	4.5	15	Bose	80
	7	OnePlus 11	Mobiles	49999.00	4.7	20	OnePlus	90
	6	Samsung Galaxy S23	Mobiles	69999.00	4.8	25	Samsung	100
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

products 2 ✕

2. Show all products sorted by rating descending.

```
65
66 •     select * from products order by  rating desc;
67
68
69
70
```

	product_id	product_name	category	price	rating	stock	brand	sold_quantity
▶	2	Kindle Paperwhite	Electronics	9999.00	4.8	80	Amazon	300
	6	Samsung Galaxy S23	Mobiles	69999.00	4.8	25	Samsung	100
	4	Instant Pot Duo	Kitchen	7999.00	4.7	30	InstantPot	200
	7	OnePlus 11	Mobiles	49999.00	4.7	20	OnePlus	90
	1	Echo Dot	Electronics	3499.00	4.6	120	Amazon	500
	5	Air Fryer	Kitchen	5999.00	4.6	40	Philips	150
	3	Fire TV Stick	Electronics	3999.00	4.5	50	Amazon	450
	8	Bose Headphones	Electronics	19999.00	4.5	15	Bose	80
	9	Logitech Mouse	Electronics	1299.00	4.4	200	Logitech	600
	10	Amazon Basics Bag	Accessories	999.00	4.3	300	Amazon	400
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

products 3 ✕

3. Display products sorted by sold_quantity descending, then price ascending.

```
68
69 •     select * from products order by sold_quantity desc,price asc;
70
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: IA

product_id	product_name	category	price	rating	stock	brand	sold_quantity
9	Logitech Mouse	Electronics	1299.00	4.4	200	Logitech	600
1	Echo Dot	Electronics	3499.00	4.6	120	Amazon	500
3	Fire TV Stick	Electronics	3999.00	4.5	50	Amazon	450
10	Amazon Basics Bag	Accessories	999.00	4.3	300	Amazon	400
2	Kindle Paperwhite	Electronics	9999.00	4.8	80	Amazon	300
4	Instant Pot Duo	Kitchen	7999.00	4.7	30	InstantPot	200
5	Air Fryer	Kitchen	5999.00	4.6	40	Philips	150
6	Samsung Galaxy S23	Mobiles	69999.00	4.8	25	Samsung	100
7	OnePlus 11	Mobiles	49999.00	4.7	20	OnePlus	90
8	Bose Headphones	Electronics	19999.00	4.5	15	Bose	80
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

products 4 ✕

Output

4. List products sorted by category ascending, then sold_quantity descending.

```
70
71 •     select * from products order by category asc,sold_quantity desc;
72
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

product_id	product_name	category	price	rating	stock	brand	sold_quantity
10	Amazon Basics Bag	Accessories	999.00	4.3	300	Amazon	400
9	Logitech Mouse	Electronics	1299.00	4.4	200	Logitech	600
1	Echo Dot	Electronics	3499.00	4.6	120	Amazon	500
3	Fire TV Stick	Electronics	3999.00	4.5	50	Amazon	450
2	Kindle Paperwhite	Electronics	9999.00	4.8	80	Amazon	300
8	Bose Headphones	Electronics	19999.00	4.5	15	Bose	80
4	Instant Pot Duo	Kitchen	7999.00	4.7	30	InstantPot	200
5	Air Fryer	Kitchen	5999.00	4.6	40	Philips	150
6	Samsung Galaxy S23	Mobiles	69999.00	4.8	25	Samsung	100
7	OnePlus 11	Mobiles	49999.00	4.7	20	OnePlus	90
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

products 5 ✕

Output

Action Output

#	Time	Action
✔ 9	14:51:36	select * from products order by sold_quantity desc,price asc LIMIT 0, 1000
✔ 10	14:54:32	select * from products order by category asc,sold_quantity desc LIMIT 0, 1000

Q Search

5. Show all products sorted by brand descending.

```
72
73 •    select * from products order by brand desc;
74
```

product_id	product_name	category	price	rating	stock	brand	sold_quantity
6	Samsung Galaxy S23	Mobiles	69999.00	4.8	25	Samsung	100
5	Air Fryer	Kitchen	5999.00	4.6	40	Philips	150
7	OnePlus 11	Mobiles	49999.00	4.7	20	OnePlus	90
9	Logitech Mouse	Electronics	1299.00	4.4	200	Logitech	600
4	Instant Pot Duo	Kitchen	7999.00	4.7	30	InstantPot	200
8	Bose Headphones	Electronics	19999.00	4.5	15	Bose	80
1	Echo Dot	Electronics	3499.00	4.6	120	Amazon	500
2	Kindle Paperwhite	Electronics	9999.00	4.8	80	Amazon	300
3	Fire TV Stick	Electronics	3999.00	4.5	50	Amazon	450
10	Amazon Basics Bag	Accessories	999.00	4.3	300	Amazon	400
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

products 6 ×

Output