

SQL Practice Questions — GROUP BY, HAVING,
ORDER BY, LIMIT, ASC/DESC

GROUP BY Questions

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

```
SELECT category, SUM(sold_quantity) AS total_sold FROM products GROUP BY category;
```

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

```
SELECT brand, AVG(price) AS avg_price FROM products GROUP BY brand;
```

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

```
SELECT category, COUNT(*) AS product_count FROM products GROUP BY category;
```

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

```
SELECT category, MAX(rating) AS max_rating FROM products GROUP BY category;
```

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

```
SELECT brand, MIN(price) AS min_price FROM products GROUP BY brand;
```

HAVING Questions

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

```
SELECT category, SUM(sold_quantity) AS total_sold FROM products GROUP BY category
```

```
HAVING SUM(sold_quantity) > 1000;
```

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

```
SELECT brand, AVG(price) AS avg_price FROM products GROUP BY brand HAVING AVG(price)
```

```
> 10000;
```

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

```
SELECT category, MAX(rating) AS max_rating FROM products GROUP BY category HAVING
```

```
MAX(rating) > 4.7;
```

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

```
SELECT brand, COUNT(*) AS product_count FROM products GROUP BY brand HAVING COUNT(*)
```

```
> 2;
```

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

```
SELECT category, SUM(stock) AS total_stock FROM products GROUP BY category HAVING
```

```
SUM(stock) < 200;
```

ORDER BY Questions

1. List all products ordered by price ascending.

```
SELECT * FROM products ORDER BY price ASC;
```

2. Show all products ordered by sold_quantity descending.

```
SELECT * FROM products ORDER BY sold_quantity DESC;
```

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

```
SELECT * FROM products ORDER BY rating DESC, price ASC;
```

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

```
SELECT * FROM products ORDER BY category ASC, sold_quantity DESC;
```

5. Show all products ordered by brand alphabetically.

```
SELECT * FROM products ORDER BY brand ASC;
```

LIMIT Questions

1. Show the first 5 products in the table.

```
SELECT * FROM products LIMIT 5;
```

2. Show the top 3 highest-priced products.

```
SELECT * FROM products ORDER BY price DESC LIMIT 3;
```

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

```
SELECT * FROM products ORDER BY rating DESC LIMIT 5;
```

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

```
SELECT * FROM products LIMIT 2 OFFSET 5;
```

5. Display the top 10 products with highest sold_quantity.

```
SELECT * FROM products ORDER BY sold_quantity DESC LIMIT 10;
```

ASC / DESC Questions

1. Show all products sorted by price ascending.

`SELECT * FROM products ORDER BY price ASC;`

2. Show all products sorted by rating descending.

`SELECT * FROM products ORDER BY rating DESC;`

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

`SELECT * FROM products ORDER BY sold_quantity DESC, price ASC;`

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

`SELECT * FROM products ORDER BY category ASC, sold_quantity DESC;`

5. Show all products sorted by brand descending.

`SELECT * FROM products ORDER BY brand DESC;`