

4 - ORDER BY





1.



→

2. ORDER BY□□□□□□

```
SELECT □□ FROM '□□□□□' ORDER BY □□□□□□□□;
```

```
-- □□□□□□□□
```

```
SELECT * FROM 'data/products.csv' ORDER BY price DESC;
```

```
-- □□□□□□□□ - □□□□□
```

```
SELECT * FROM 'data/products.csv' ORDER BY price ASC;
```

```
SELECT * FROM 'data/products.csv' ORDER BY price; -- ASC□□□□
```

3. □□□□

DESC □□□□Descending□- □ → □□□ → □□Z → A

ASC □□□□Ascending□- □ → □□□ → □□A → Z

□□□□□□□□□□□□ASC□

□□□□□□□□□□□□

4. □□□□□□

□□□□□□□□□□□□□□□□

□□□□□□□□□□□□□□□□□□□□□□

□□□SQL□□□□□□□□□□□□



1

```
SELECT * FROM 'data/products.csv'  
ORDER BY price DESC;
```

89,999

2,999

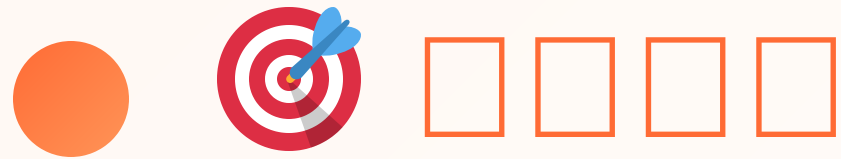
2

```
SELECT * FROM 'data/sales.csv'  
ORDER BY order_date DESC;
```



2024-01-29

2024-01-15



1.

```
-- 
SELECT product_name, category, price
FROM 'data/products.csv'
ORDER BY category, price DESC;
```

2. □□□□□□□□□□□□

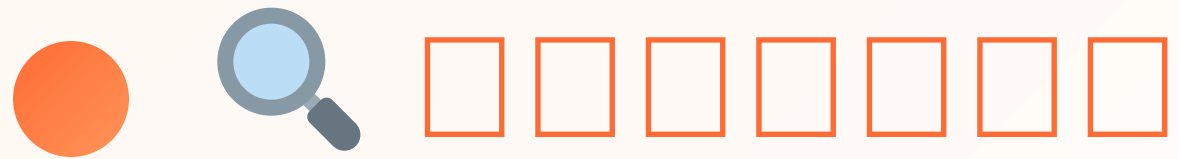
```
-- 3□□□□□price□□□□□□  
SELECT product_id, product_name, price  
FROM 'data/products.csv'  
ORDER BY 3 DESC;
```



□□□□**SELECT**□□□□□□□□

3. □□□□□□□□

```
-- □□□□□□□□□□□□□□  
SELECT  
    product_id,  
    quantity,  
    quantity * 10000 AS □□□□  
FROM 'data/sales.csv'  
ORDER BY □□□□ DESC  
LIMIT 5;
```



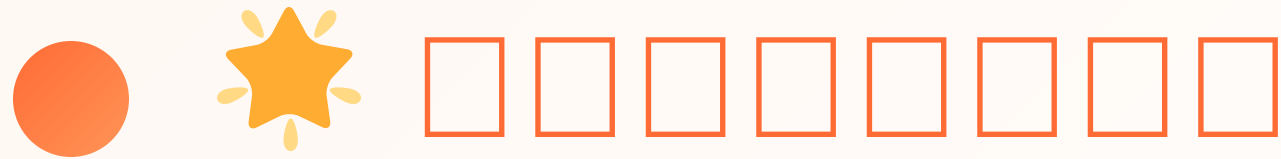
1

```
-- TOP3
SELECT
    product_id AS ID,
    SUM(quantity) AS
FROM 'data/sales.csv'
GROUP BY product_id
ORDER BY  DESC
LIMIT 3;
```

GROUP BYSUM

□□□2□□□□□□□□

```
-- □□□□□□□□□□  
SELECT  
    order_date AS □□□,  
    product_id AS □□,  
    quantity AS □□  
FROM 'data/sales.csv'  
WHERE customer_id = 'C001'  
ORDER BY order_date DESC;
```



1.

```
SELECT product_name, price FROM 'data/products.csv';
```

2.

```
SELECT product_name, price FROM 'data/products.csv'  
ORDER BY price DESC;
```

NULL□□□□

```
-- NULL□□□□□□□□DuckDB□□□□  
SELECT * FROM 'data/customers.csv'  
ORDER BY registration_date DESC;
```




1.

```
-- TOP 5
SELECT * FROM 
ORDER BY  DESC
LIMIT 5;
```

2.

```
-- 
```

3. □□□□□□□□

```
-- □□□□□□□□□□  
SELECT * FROM □□□□  
ORDER BY □□□;
```



□

□

□

□

□

□

□□□□□□□□



ORDER BY □□□□□□□□



DESC □□□□□□□□



ASC □□□□□□□□※□□□□



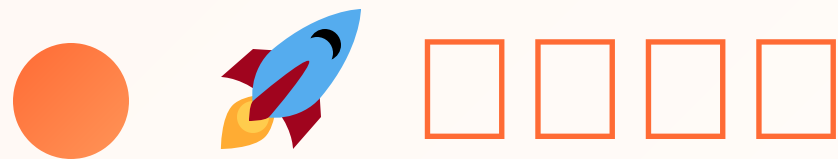
□□□□□□□□□□



WHERE□□□□□□□□□□



```
-- □□□  
ORDER BY □□ DESC  
  
-- □□□  
ORDER BY □1, □2 DESC  
  
-- WHERE□□□□□□□□  
WHERE □□  
ORDER BY □□ DESC  
LIMIT 10
```



5 COUNT SUM AVG



1

```
-- 1. customers.csv
-- 
-- 2. products.csv
-- 
-- 3. sales.csv
-- 
```

2

```
-- 1. sales.csv ID  
SELECT * FROM 'data/sales.csv'  
ORDER BY __, __ DESC;
```

```
-- 2. products.csv  
--
```

□□3□□□□□□□□□□□□□□□□

WHERE□□ORDER BY□□□□□□□

```
-- 1. □□□□□□□□□□□□□□□□□□  
-- □□□□□□□□□□□□□□□□  
  
-- 2. C001□□□□□□□□□□□□□□  
-- □□□□□□□□□□□□□□□□  
  
-- 3. 5□□□□□□□□□□□□□□□□3□□□  
-- □□□□□□□□□□□□□□□□
```


□□4□□□□□□□

□□□□□□□□□□□□

```
-- 1. □□□□□□□□□□□□□□□□TOP3□
-- □□□□GROUP BY□□□□□□□□□□□□□□
SELECT product_id, SUM(quantity) as total
FROM 'data/sales.csv'
GROUP BY product_id
ORDER BY
LIMIT ___;
```

```
-- 2. □□□□□□□□□□5□□
-- □□□□□□□□□□□□□□□□□□
```

```
-- 3. □□□□□□□□□3□□□□□□□□□□□□
-- □□□□□□□□□□□□□□□□□□
```



```
-- sales.csv□□□□□□□□□□□□□□  
-- □□□□□□□□□□□□□□  
-- □□□□□□□□□□□□□□□□□□□□
```



```
-- □□□□□□□□□□□□□□□□  
-- 1. □□□□□□□□□□□□□□□□  
-- 2. □□□□□□□□□□ID□□□□□□□□  
-- 3. □□ID□□□□□□□□□□□□
```



□□□□□□□□□□□□□□□□□□

```
-- □□□1□ORDER BY□□□  
SELECT * FROM 'data/products.csv'  
ORDER BY price DESC  
WHERE category = '□□□□';
```

```
-- □□□2□□□□□□□□□□□□  
SELECT product_name, price  
FROM 'data/products.csv'  
ORDER BY product_id;
```

```
-- □□□3□DESC□□□  
SELECT * FROM 'data/sales.csv'  
ORDER BY DESC quantity;
```



```
-- □□□□□□□□□□  
-- 1. □□□□□□□□□□SELECT□□3□□□□□□□□  
SELECT customer_id, product_id, quantity  
FROM 'data/sales.csv'  
ORDER BY 3 DESC;  
  
-- 2. □□□□□□□□□□□□□□□□□□□□  
SELECT *, quantity * 10000 as amount  
FROM 'data/sales.csv'  
ORDER BY amount DESC;
```

● ? FAQ

Q: DESC ASC

A: DESC = Descending → ASC = Ascending

Q: ORDER BY

A: ORDER BY → LIMIT

Q: ORDER BY

A: LIMIT ORDER BY → LIMIT