











COUNT

SUM

AVG

## **2.** $\Box$

# **3.** $\Box$

COUNT(\*)

# 4.



SELECT COUNT(\*) FROM 'data/sales.csv';

```
SQL - 5
```

SQL - 5



```
SELECT SUM(quantity) FROM 'data/sales.csv';
```

10000000000÷000

SQL - 5



```
SELECT AVG(price) FROM 'data/products.csv';
```

```
SQL - 5
```

```
SELECT

MAX(price) AS [][][],

MIN(price) AS [][][],

AVG(price) AS [][][]

FROM 'data/products.csv';
```





## **1.** 00000000000

```
SELECT
    COUNT(*) AS [][][],
    SUM(quantity) AS [][][],
    AVG(quantity) AS [][][][],
    MAX(quantity) AS [][][][],
    MIN(quantity) AS [][][][][]
FROM 'data/sales.csv';
```

# **2.** $\square$ $\square$ $\square$ $\square$ $\square$

```
SELECT
    COUNT(*) AS [][][][][],
    SUM(quantity) AS [][][][][][]
FROM 'data/sales.csv'
WHERE quantity >= 10;
```

# 3.



```
SELECT
    COUNT(*) AS [][][]
FROM 'data/sales.csv'
WHERE order_date >= '2024-01-20';
```

SQL□□□ - □5□



## 1.

```
SELECT COUNT(*) AS DODDD FROM 'data/sales.csv';
```

## **2.**

```
SELECT COUNT(*) AS [][][][]
FROM 'data/sales.csv'
WHERE customer_id = 'C001';
```

## **3.** $\Box$

```
SELECT
    COUNT(CASE WHEN customer_id = 'C001' THEN 1 END) AS C001[[[[[]]]]],
    COUNT(*) AS [[[]]][[]],
    ROUND(COUNT(CASE WHEN customer_id = 'C001' THEN 1 END) * 100.0 / COUNT(*), 2) AS [[[]]][[]]
FROM 'data/sales.csv';
```







COUNT(*)		
COUNT(□)	NULL	
SUM		
AVG		
MAX		
MIN		





# Tips

## NULL

COUNT(\*) NULL

COUNT( | | | ) | NULL | | | |







- COUNT(\*)
- **SUM(**[][])
- **✓** AVG(□□) □□□□□□
- MAX DODD MIN DODD



```
-- 0000000
SELECT
    COUNT(*) AS □□,
    SUM(DDD) AS DD,
    AVG(□□□) AS □□,
    MAX(□□□) AS □□,
    MIN(DDD) AS DD
FROM [] ;
-- 000000
SELECT [][][]
FROM [][]
WHERE □□;
```









- - -- 1. products.csv[][][][]

  - -- 2. sales.csv[][][][][][]

  - -- 3. customers.csv[][][][][][]

### WHERE

```
-- 1. 00000000000000000
SELECT
   COUNT(*) AS □□□,
   AVG(____) AS [][[]
FROM 'data/products.csv'
WHERE ____' = '____';
-- 2. 2024 1 25 0 0 0 0 0 0 0
-- 00000000000000000
-- 3. DC002DDDDDDDDDD
```

SQL - 5



- -- 1.
- --- | | | | | |
- -- 00000
- -- 2. **DDDDDD**
- -- 00000000000000000
- -- 00000000000000000

SQL - 5



- -- sales.csv[][][][][][][][]
- -- 1. 000000000000000100
- -- 2. 0000000000000







```
-- 00010000000
SELECT customer_id, COUNT(*)
FROM 'data/sales.csv';
-- 002000SUM000
SELECT SUM(customer_name)
FROM 'data/customers.csv';
-- 0030000WHERE
SELECT COUNT(*)
FROM 'data/sales.csv'
WHERE COUNT(*) > 5;
```

```
-- NULL
-- 1. COUNT(*)□COUNT(□□)□□□
SELECT
   COUNT(*) AS □□□,
   COUNT(customer_id) AS [[ID],
   COUNT(DISTINCT customer_id) AS [[[[[[[]]]]]]
FROM 'data/sales.csv';
-- 2. NULL O COALESCE
SELECT
   SUM(COALESCE(quantity, 0)) AS □□□□
FROM 'data/sales.csv';
```

SQL - 5



# • ? FAQ

**Q:** COUNT(1) COUNT(\*)

**Q:** 

**Q:**