

DataFrames and CSVs DataFrame as df

```
--Which employee generated the most revenue?--
SELECT e.first_name || ' ' || e.last_name AS employee,
       SUM(s.quantity * s.price_per_unit) AS total_revenue
FROM "sales_orders.csv" s
JOIN "employees.csv" e ON s.employee_id = e.employee_id
GROUP BY employee
ORDER BY total_revenue DESC;
```

index	...	↑↓	employee	...	↑↓	total_revenue	...
		0	Bryce Lewis				
		1	Amina Khan				
		2	Dante Nguyen				

Rows: 3

 Expand

DataFrames and CSVs DataFrame as df1

```
--Average Salary by Department--
SELECT department, ROUND(AVG(salary), 2) AS avg_salary
FROM "employees.csv"
GROUP BY department;
```

index	...	↑↓	department	...	↑↓	avg_salary	...
		0	HR			61	
		1	Operations			80	
		2	Sales			71	

Rows: 3

 Expand

DataFrames and CSVs DataFrame as df2

```
-- Top 3 highest-paid employees--
SELECT first_name || ' ' || last_name AS employee, salary
FROM "employees.csv"
ORDER BY salary DESC
LIMIT 3;
```

index	...	↑↓	employee	...	↑↓	salary	...
		0	Dante Nguyen			80	
		1	Amina Khan			75	
		2	Bryce Lewis			68	

Rows: 3

 Expand

DataFrames and CSVs DataFrame as df3

```
--Total sales by region--
```

```
SELECT c.region,
       SUM(s.quantity * s.price_per_unit) AS region_sales
FROM "sales_orders.csv" s
JOIN "customers.csv" c ON s.customer_id = c.customer_id
GROUP BY c.region;
```

index	...	↑↓	region	...	↑↓	region_sales	...
		0	West				
		1	South				
		2	Midwest				

Rows: 3

[Expand](#)

DataFrames and CSVs DataFrame as df4

```
--Customers with most orders--
```

```
SELECT c.customer_name, COUNT(*) AS total_orders
FROM "sales_orders.csv" s
JOIN "customers.csv" c ON s.customer_id = c.customer_id
GROUP BY c.customer_name
ORDER BY total_orders DESC;
```

...	↑↓	customer...	...	↑↓	total...	...	↑↓
	0	Glow Cosmetics					2
	1	Urban Goods					2
	2	TechNest					1
	3	FreshFoods					1
	4	EcoTrend					1

Rows: 5

[Expand](#)

DataFrames and CSVs DataFrame as

```
-- Average order value by employee--
```

```
SELECT e.first_name || ' ' || e.last_name AS employee,
       ROUND(AVG(s.quantity * s.price_per_unit), 2) AS avg_order_value
FROM "sales_orders.csv" s
JOIN "employees.csv" e ON s.employee_id = e.employee_id
GROUP BY employee;
```

...	↑↓	empl...	...	↑↓	avg_order...	...	↑↓
	0	Amina Khan					131.33
	1	Dante Nguyen					90
	2	Bryce Lewis					148.67

Rows: 3

[Expand](#)

DataFrames and CSVs DataFrame as

```
--Most sold product (by units)--
SELECT product, SUM(quantity) AS total_units
FROM "sales_orders.csv"
GROUP BY product
ORDER BY total_units DESC
LIMIT 1;
```

...	↑↓	pro...	...	↑↓	tot...	...	↑↓
0		Canvas Tote			35		

Rows: 1

Expand

DataFrames and CSVs DataFrame as

```
--Monthly sales trend--
SELECT strftime('%Y-%m', order_date) AS month,
       ROUND(SUM(quantity * price_per_unit), 2) AS monthly_sales
FROM "sales_orders.csv"
GROUP BY month
ORDER BY month;
```

...	↑↓	...	↑↓	monthl...	...	↑↓
0		2023-01			250	
1		2023-02			290	
2		2023-03			390	

Rows: 3

Expand

DataFrames and CSVs DataFrame as

```
--Employees hired before 2019--
SELECT first_name || ' ' || last_name AS employee, hire_date
FROM "employees.csv"
WHERE hire_date < '2019-01-01';
```

...	↑↓	empl...	...	↑↓	hire_date	...	↑↓
0		Amina Khan			2018-06-15T00:00:00.000		
1		Dante Nguyen			2017-09-12T00:00:00.000		

Rows: 2

Expand

DataFrames and CSVs DataFrame as

```
--Employees with no recorded sales--
SELECT first_name || ' ' || last_name AS employee
FROM "employees.csv"
WHERE employee_id NOT IN (
  SELECT DISTINCT employee_id FROM "sales_orders.csv"
);
```

...	↑↓	employee	...	↑↓
0		Carla Martinez		
1		Elena Owens		

Rows: 2

Expand