



14 DAYS

AI CHALLENGE

DAY 09


Topic:



SQL Analytics & Dashboards

Challenge:

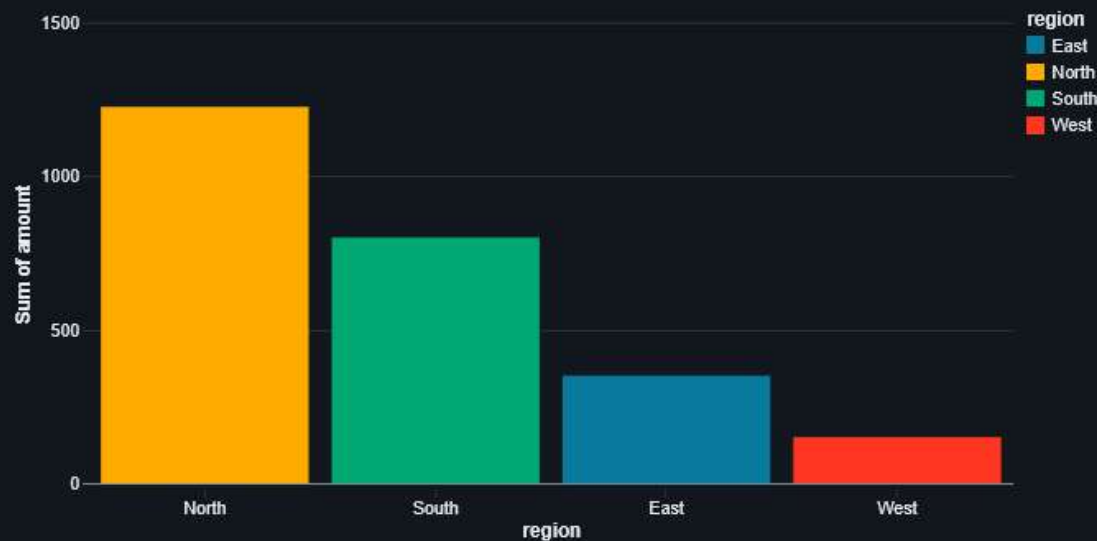
1. Create SQL warehouse
2. Write analytical queries
3. Build dashboard
4. Add filters & schedule refresh

Sales Analytics Dashboard

  1m ago  Serverless Starter War...  Publish  Share

 Data  Dashboard Page  

Sales Distribution by region



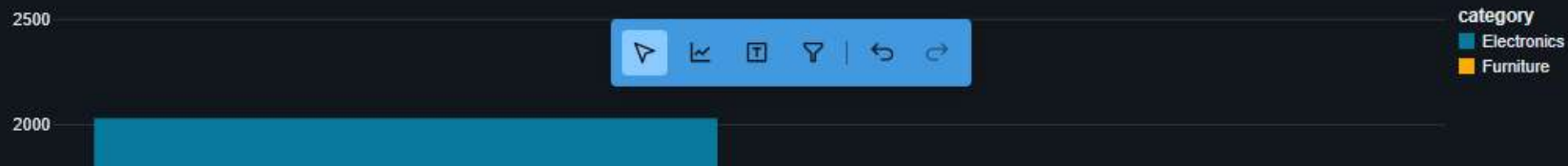
Total Sales Amount

2.53K

Select a widget to configure

 Settings

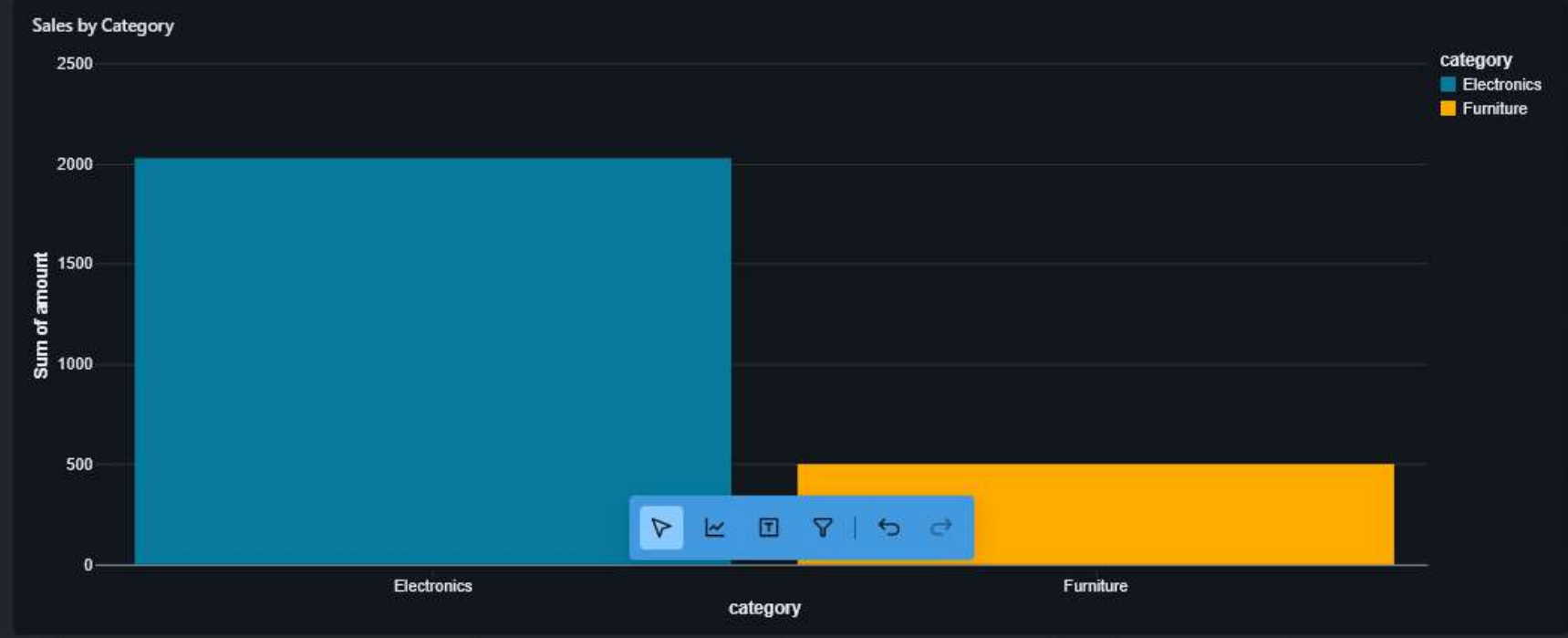
Sales by Category



Sales Analytics Dashboard

2m ago Serverless Starter War... Publish Share

Data Dashboard Page






Select a widget to configure

Settings


Sales Analytics Dashboard






 2m ago

 Serverless Starter War... 

Publish

 Share

 Data |  Dashboard Page  

Product Sales Table

| order_id | customer_id | product | category | amount | order_date | region | |
|----------|-------------|---------|-------------|--------|------------|--------|--|
| 1 | 101 | Laptop | Electronics | 1200 | 15/01/2024 | North | |
| 2 | 102 | Phone | Electronics | 800 | 16/01/2024 | South | |
| 3 | 103 | Desk | Furniture | 350 | 17/01/2024 | East | |
| 4 | 104 | Chair | Furniture | 150 | 18/01/2024 | West | |
| 5 | 101 | Mouse | Electronics | 25 | 19/01/2024 | North | |


Ask the assistant to create a chart...

Preview 

Sales Over Time



Select a widget to configure

 Settings



DAY 9 (17/01/26) – SQL Analytics & Dashboards

Sales Dataset

Open focus mode (Ctrl + Alt + O)

FileEditViewRunHelpPython ▾Tabs: ON ▾☆Last edit was 1 hour ago

▶ Run all

Serverless ▾

Schedule

Share

▶ ▾ ✓ 10:50 AM (42s)3

SQL

```
);

-- Insert sample data
INSERT INTO sales_data VALUES
(1, 101, 'Laptop', 'Electronics', 1200.00, '2024-01-15', 'North'),
(2, 102, 'Phone', 'Electronics', 800.00, '2024-01-16', 'South'),
(3, 103, 'Desk', 'Furniture', 350.00, '2024-01-17', 'East'),
(4, 104, 'Chair', 'Furniture', 150.00, '2024-01-18', 'West'),
(5, 101, 'Mouse', 'Electronics', 25.00, '2024-01-19', 'North');
```

> [See performance \(2\)](#)

Table ▾ +

🔍🏠📄🗨

| | 123 num_affected_rows | 123 num_inserted_rows |
|---|-----------------------|-----------------------|
| 1 | 5 | 5 |

⬇ ▾

1 row | 42.09s runtime

Refreshed 1 hour ago

📘 This result is stored as `_sqlidf` and can be used in other [Python](#) and [SQL](#) cells.

With a little help from a friend

Write Analytical Queries Query 1: Total Sales by Category

10:51 AM (2s)

5

```
%sql
SELECT
  category,
  COUNT(*) as total_orders,
  SUM(amount) as total_revenue,
  AVG(amount) as avg_order_value
FROM sales_data
GROUP BY category
ORDER BY total_revenue DESC;
```

> [See performance \(1\)](#)

[Optimize](#)

Table

Visualization 1

+

New charts: ON



total_revenue
■ 2025
■ 500

Query 2: Sales Trend by Date

10:52 AM (2s)

7

```
%sql
SELECT
  order_date,
  COUNT(*) as orders,
  SUM(amount) as daily_revenue
FROM sales_data
GROUP BY order_date
ORDER BY order_date;
```

[See performance \(1\)](#)

[Optimize](#)

Table Visualization 1 +

New charts: ON



- 15/01/2024 00:00, SUM(daily_revenue)
- 15/01/2024 00:00, SUM(orders)
- 16/01/2024 00:00, SUM(daily_revenue)
- 16/01/2024 00:00, SUM(orders)
- 17/01/2024 00:00, SUM(daily_revenue)
- 17/01/2024 00:00, SUM(orders)
- 18/01/2024 00:00, SUM(daily_revenue)
- 18/01/2024 00:00, SUM(orders)
- 19/01/2024 00:00, SUM(daily_revenue)
- 19/01/2024 00:00, SUM(orders)



Day 9: SQL Analytics & Dashboards Challenge



1. Create SQL warehouse

Set up the foundational compute resource for running SQL queries.



2. Write analytical queries

Develop SQL queries to extract insights from your data.



3. Build dashboard

Visualize the results of your queries in a new dashboard.



4. Add filters & schedule refresh

Enhance interactivity and ensure your data stays current.