**-- Customers table**

CREATE TABLE customers (

customer\_id INT PRIMARY KEY,

name VARCHAR(100),

email VARCHAR(100),

city VARCHAR(50),

state VARCHAR(50)

);

**-- Products table**

CREATE TABLE products (

product\_id INT PRIMARY KEY,

product\_name VARCHAR(100),

category VARCHAR(50),

price DECIMAL(10,2)

);

**-- Orders table**

CREATE TABLE orders (

order\_id INT PRIMARY KEY,

customer\_id INT REFERENCES customers(customer\_id),

order\_date DATE,

total\_amount DECIMAL(12,2)

);

**-- Order\_Items table**

CREATE TABLE order\_items (

order\_item\_id INT PRIMARY KEY,

order\_id INT REFERENCES orders(order\_id),

product\_id INT REFERENCES products(product\_id),

quantity INT,

price DECIMAL(10,2)

);

select\*from customers

select\*from order\_items

select\*from products

select\*from orders

**--SELECT Basics--**

SELECT customer\_id, name, city

FROM customers;

**--Filtering with WHERE--**

SELECT \*

FROM customers

WHERE city = 'Delhi';

SELECT order\_id, total\_amount

FROM orders

WHERE total\_amount > 5000;

**--Sorting with ORDER BY--**

SELECT order\_id, total\_amount

FROM orders

ORDER BY total\_amount DESC

LIMIT 10;

**--Aggregations with GROUP BY--**

**--Find total sales per customer:--**

SELECT customer\_id, SUM(total\_amount) AS total\_spent

FROM orders

GROUP BY customer\_id

ORDER BY total\_spent DESC;

**--Find number of orders per city:--**

SELECT c.city, COUNT(o.order\_id) AS order\_count

FROM customers c

JOIN orders o ON c.customer\_id = o.customer\_id

GROUP BY c.city

ORDER BY order\_count DESC;

**--JOINs--**

SELECT o.order\_id, p.product\_name, oi.quantity, oi.price

FROM orders o

JOIN order\_items oi ON o.order\_id = oi.order\_id

JOIN products p ON oi.product\_id = p.product\_id;

**--Date Functions--**

SELECT order\_id, order\_date, total\_amount

FROM orders

WHERE EXTRACT(MONTH FROM order\_date) = 1

AND EXTRACT(YEAR FROM order\_date) = 2025;