Table Structure: Create a table named sales with the following structure:

```
CREATE TABLE sales ( order_id INT PRIMARY KEY, customer_id INT, product_id INT, product_name VARCHAR(50), quantity INT, unit_price DECIMAL(10, 2), order_date DATE );
```

Insert Data: Insert the following sample data into the sales table:

INSERT INTO sales (order\_id, customer\_id, product\_id, product\_name, quantity, unit\_price, order\_date) VALUES

```
(1, 101, 1, 'Widget A', 5, 10.00, '2023-01-15'),
```

(2, 102, 2, 'Widget B', 2, 12.50, '2023-01-16'),

(3, 103, 1, 'Widget A', 3, 10.00, '2023-01-16'),

(4, 104, 3, 'Widget C', 1, 15.75, '2023-01-17'),

(5, 105, 2, 'Widget B', 4, 12.50, '2023-01-17'),

(6, 106, 1, 'Widget A', 2, 10.00, '2023-01-18'),

(7, 107, 4, 'Widget D', 3, 20.00, '2023-01-18'),

(8, 108, 2, 'Widget B', 5, 12.50, '2023-01-19'),

(9, 109, 1, 'Widget A', 1, 10.00, '2023-01-19'),

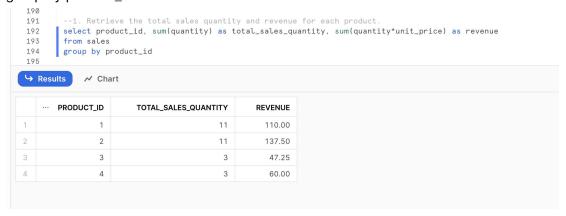
(10, 101, 3, 'Widget C', 2, 15.75, '2023-01-20');

--1. Retrieve the total sales quantity and revenue for each product.

select product\_id, sum(quantity) as total\_sales\_quantity, sum(quantity\*unit\_price) as revenue

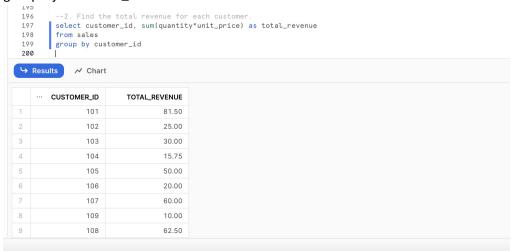
from sales

group by product\_id



--2. Find the total revenue for each customer. select customer\_id, sum(quantity\*unit\_price) as total\_revenue from sales

## group by customer\_id



--3. Get the products with more than 10 units sold in a single order. select order\_id, product\_id from sales where quantity>10

## Result - There are no products with 10 units sold in single order



--4. List the customers who have placed orders on at least three different dates. select customer\_id

from sales

group by customer\_id

having count(distinct order\_date)>3



--5. Calculate the average unit price of products. select product\_name, avg(unit\_price) as average\_unit\_price from sales group by product\_name



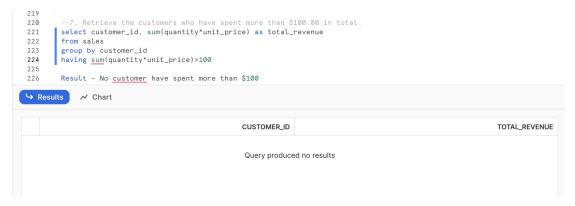
--6. Find the products with an average unit price greater than \$12.00. select product\_name, round(avg(unit\_price),2) as average\_unit\_price from sales group by product\_name

having avg(unit\_price)>12.00



--7. Retrieve the customers who have spent more than \$100.00 in total. select customer\_id, sum(quantity\*unit\_price) as total\_revenue from sales group by customer\_id having sum(quantity\*unit\_price)>100

## Result - No customer have spent more than \$100



--8. List the customers who have purchased 'Widget B' and 'Widget A' in the same order select customer\_id

from sales

where product\_name in ('Widget B', 'Widget A')

group by customer\_id

having count( distinct product\_name)>2

## Result - No customer have purchased the product in same order

```
228 --8. List the customers who have purchased 'Widget B' and 'Widget A' in the same order
229 select customer_id
230 from sales
231 where product_name in ('Widget B', 'Widget A')
232 group by customer_id
233 having count( distinct product_name)>2
234
235 Result - No customer have purchased the product in same order

CUSTOMER_ID

Query produced no results
```