SQL Task 6

DATA ENGINEERING

Jahanzeb Ahmed
BYTEWISE LDT

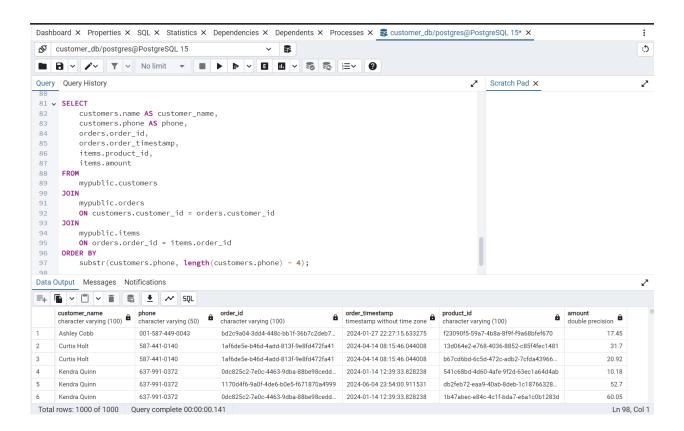
DE - Task 6

Q1: Write a query to retrieve all orders placed by customers, including customer details (name, phone), order details (order ID, timestamp), and item details (product, amount).

Query:

```
SELECT
  customers.name AS customer_name,
  customers.phone AS phone,
  orders.order_id,
  orders.order_timestamp,
  items.product_id,
  items.amount
FROM
  mypublic.customers
JOIN
  mypublic.orders
  ON customers.customer_id = orders.customer_id
JOIN
  mypublic.items
  ON orders.order_id = items.order_id
ORDER BY
  substr(customers.phone, length(customers.phone) - 4);
```

Result:



Q2: Write a query to fetch all products along with their suppliers' details (name, phone) and the corresponding category name.

Query:

```
SELECT
```

```
products.name AS product_name,

products.category AS product_category,
suppliers.name AS supplier_name,
suppliers.phone AS supplier_contact,
suppliers.category AS supplier_category
FROM
mypublic.products

JOIN
```

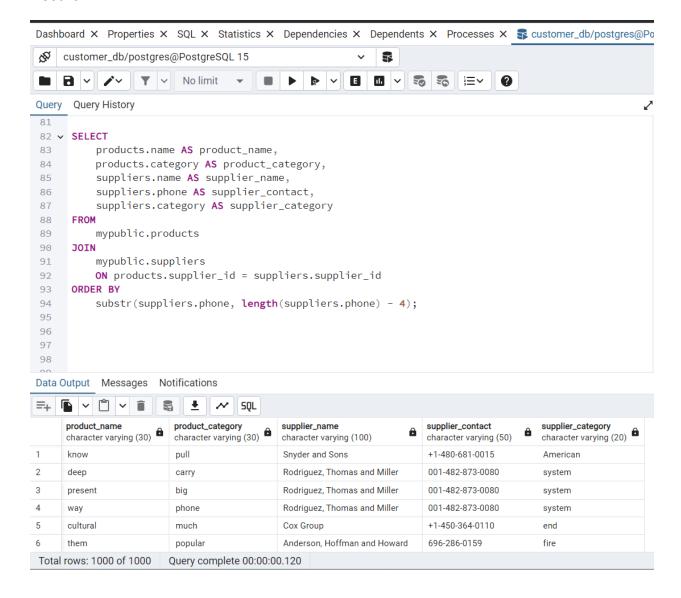
mypublic.suppliers

ON products.supplier_id = suppliers.supplier_id

ORDER BY

substr(suppliers.phone, length(suppliers.phone) - 4);

Result:



Q3: Write a query to retrieve details of all orders including the product name and amount ordered for each item.

Query:

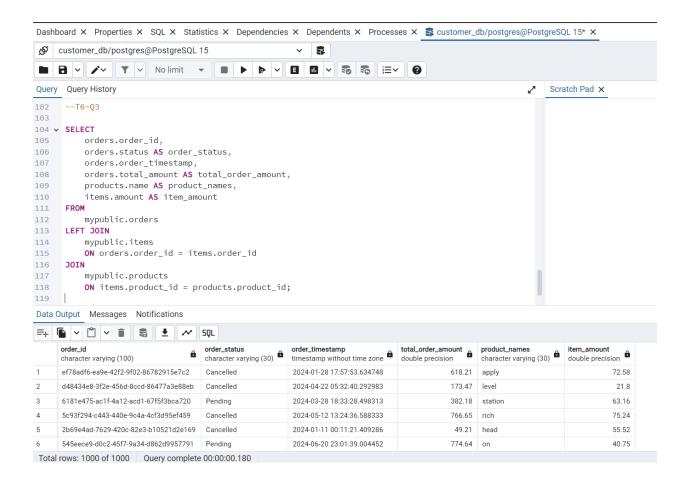
```
orders.order_id,
orders.status AS order_status,
orders.order_timestamp,
orders.total_amount AS total_order_amount,
products.name AS product_names,
items.amount AS item_amount

FROM
mypublic.orders

LEFT JOIN
mypublic.items
ON orders.order_id = items.order_id

JOIN
mypublic.products
ON items.product_id = products.product_id;
```

Result:



Q4: Write a query to retrieve all suppliers along with the city and country where they are located, and the products they supply.

Query:

```
SELECT
```

```
suppliers.supplier_id,
suppliers.name AS supplier_names,
suppliers.location AS suppliers_city,
cities.country,
products.name AS supplying_products
```

FROM

mypublic.suppliers

JOIN

mypublic.cities

ON suppliers.location = cities.name

JOIN

mypublic.products

ON suppliers.supplier_id = products.supplier_id;

Result:

