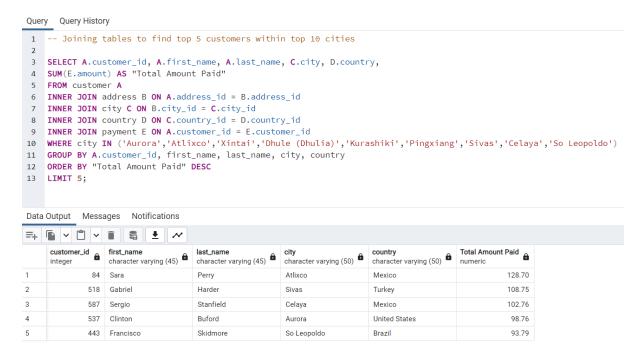
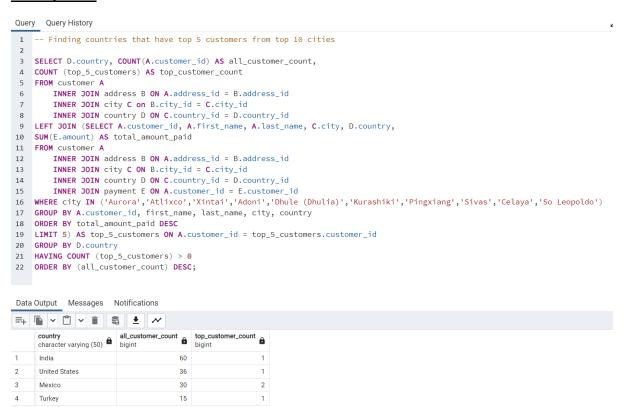
JOINING TABLES, SUBQUERIES AND CTE IN SQL

JOINS



SUBQUERY



JOINING TABLES, SUBQUERIES AND CTE IN SQL

CTE

```
-- Finding countries that have top 5 customers from top 10 cities using CTE
3 WITH top_customers (customer_id, first_name, last_name, city, country) AS
   (SELECT A.customer_id, A.first_name, A.last_name, C.city, D.country,
   SUM(E.amount) AS total_amount_paid
       INNER JOIN address B ON A.address_id = B.address_id
        INNER JOIN city C ON B.city_id = C.city_id
        INNER JOIN country D ON C.country_id = D.country_id
10
        INNER JOIN payment E ON A.customer_id = E.customer_id
11 WHERE city IN ('Aurora', 'Atlixco', 'Kintai', 'Adoni', 'Dhule (Dhulia)', 'Kurashiki', 'Pingxiang', 'Sivas', 'Celaya', 'So Leopoldo')
12 GROUP BY A.customer_id, first_name, last_name, city, country
13 ORDER BY total_amount_paid DESC
14 LIMIT 5)
15 SELECT D.country,
16 COUNT(A.customer_id) AS all_customer_count, COUNT(top_customers) AS top_customer_count
       INNER JOIN address B ON A.address_id = B.address_id
19
        INNER JOIN city C ON B.city_id = C.city_id
20
        INNER JOIN country D ON C.country_id = D.country_id
21
        LEFT JOIN top_customers ON A.customer_id = top_customers.customer_id
22 GROUP BY D.country
23 HAVING COUNT (top_customers) > 0
24 ORDER BY COUNT (top_customers) DESC;
```