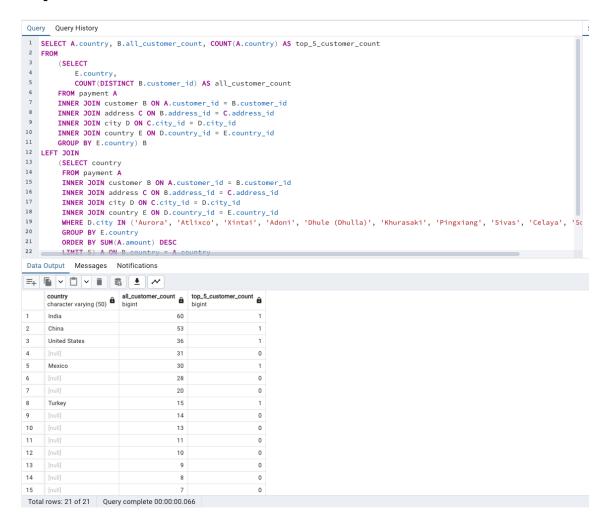
3.8 data Immersion

Katie Goyal

STEP 1:

```
Query Query History
1 SELECT AVG(total_spent) AS average_paid_by_top_5_customers FROM
2
3
       SELECT
4
           A.customer_id, B.first_name, B.last_name,
5
           E.country, D.city,
6
           SUM(A.amount) AS total_spent, B.email
7
       FROM payment A
8
       INNER JOIN customer B ON A.customer_id = B.customer_id
9
       INNER JOIN address C ON B.address_id = C.address_id
10
       INNER JOIN city D ON C.city_id = D.city_id
11
       INNER JOIN country E ON D.country_id = E.country_id
12
       WHERE city IN
1.3
           ('Aurora', 'Atlixco', 'Xintai',
14
           'Adoni', 'Dhule (Dhulla)', 'Khurasaki', 'Pingxiang', 'Sivas', 'Celaya', 'So Leopoldo')
15
16
           A.customer_id, A.customer_id, B.first_name, B.last_name,
17
           A.amount, B.email, C.address, D.city, E.country
18
       ORDER BY total_spent DESC
19
       LIMIT 5
20 )
21
Data Output Messages Notifications
=+ □ ∨ □ ∨ ■
                     S + ~
     average_paid_by_top_5_customers
              34.9300000000000000
```

Step 2:



Step 3:

No I believe it could not have been done without subqueries they are essential for running this code because it helps with complex filtering with in the data. Subqueries can also can also improve the performance of a query which I believe that's what it did here.