Step 1

Query Query History

```
1 SELECT AVG(total_amount_paid.total_amount_paid) AS average_amount_paid
   FROM (SELECT a.customer_ID, a.first_name, a.last_name, c.city,
2
3 d.country, SUM(e.amount) AS total_amount_paid
4 FROM customer a
   INNER JOIN address B ON a.address_id = b.address_id
6 INNER JOIN city c ON b.city_id = c.city_id
7
   INNER JOIN country d ON c.country_id = d.country_id
    INNER JOIN payment e ON a.customer_id = e.customer_id
   WHERE c.city IN ('Aurora', 'Atlixco', 'Xintai', 'Adoni', 'Dhule (Dhulia)', 'Kurashiki',
9
                      'Pingxiang', 'Sivas', 'Celaya', 'So Leopoldo')
10
   GROUP BY a.customer_ID, c.city, d.country
11
12 ORDER BY total_amount_paid DESC
13 LIMIT 5) AS total_amount_paid
Data output Messages Notifications
                       1
     average_amount_paid
    numeric
     107.3540000000000000
```

Step 2

Query Query History 1 SELECT d.country, 2 COUNT(DISTINCT a.customer_id) AS all_customer_count, 3 COUNT(DISTINCT top_5_customers) AS top_customer_count 4 FROM customer a 5 LEFT JOIN address B ON a.address id = b.address id 6 LEFT JOIN city c ON b.city_id = c.city_id 7 LEFT JOIN country d ON c.country_id = d.country_id 8 LEFT JOIN payment e ON a.customer_id = e.customer_id LEFT JOIN (SELECT a.customer_ID, a.first_name, a.last_name, city.city, country.country, SUM(payment.amount) AS total_payment FROM customer a 10 INNER JOIN address ON a.address_id = address.address_id 11 INNER JOIN city ON address.city_id = city.city_id 12 13 INNER JOIN country ON city.country_id = country.country_id 14 INNER JOIN payment ON a.customer_id = payment.customer_id 15 WHERE city.city IN ('Aurora', 'Atlixco', 'Xintai', 'Adoni', 'Dhule (Dhulia)', 'Kurashiki', 16 'Pingxiang','Sivas','Celaya','So Leopoldo') GROUP BY a.customer_ID, city.city, country.country 17 ORDER BY total_payment DESC 18 19 LIMIT 5) AS top_5_customers ON a.customer_id = top_5_customers.customer_id 20 GROUP BY d.country 21 ORDER BY all_customer_count DESC LIMIT 5 Data output Messages Notifications ren = .

=+		<u>•</u>	
	country character varying (50)	all_customer_count bigint	top_customer_count bigint
1	India	60	1
2	China	53	0
3	United States	36	1
4	Japan	31	0
5	Mexico	30	2

Step 3

Step 1 could have been done without a subquery using aggregate functions. Step 2 could not have been done without a subquery because we needed results from a different table. Subqueries are useful in this case because they allow you to retrieve results from another table without rewriting your inner query.