

3.8-

1.

Query Editor

Query History

1

SELECT Round(AVG(total_paid),2) AS average

2

FROM(SELECT A.customer_id, A.first_name, A.last_name, E.country, B.city, SUM(C.amount) AS total_

3

From customer A

4

Inner Join payment C ON A.customer_id = C.customer_id

5

Inner Join address D on A.address_id = D.address_id

6

Inner Join city B on D.city_id = B.city_id

7

Inner JOIN country E on B.country_id = E.country_id

8

Where city IN ('Aurora', 'Atlixco', 'Xintai', 'Adoni', 'Dhule (Dhulla)', 'Kurashiki',

9

'Pingxiang', 'Sivas', 'Celaya', 'So Leopoldo')

10

GROUP BY A.customer_id, E.country, B.city

11

ORDER BY total_paid DESC

12

LIMIT 5) AS total_amount_paid;

Data Output

Explain

Messages

Notifications

average
numeric

1

107.35

2.

```

1  SELECT DISTINCT(A.country),
2      COUNT(DISTINCT D.customer_id) AS all_customer_count,
3      COUNT(DISTINCT A.country) AS top_customer_count
4  FROM country A
5  INNER JOIN city B
6      ON A.country_id = B.country_id
7  INNER JOIN address c
8      ON b.city_id = C.city_id
9  INNER JOIN customer D
10     ON C.address_id = D.address_id
11  LEFT JOIN (SELECT A.customer_id, A.first_name, A.last_name, E.country, B.city, SUM(C.amount) AS total_paid
12             From customer A
13             Inner Join payment C ON A.customer_id = C.customer_id
14             Inner Join address D on A.address_id = D.address_id
15             Inner Join city B on D.city_id = B.city_id
16             Inner JOIN country E on B.country_id = E.country_id
17  Where E.country IN ('India', 'China', 'United States', 'Japan', 'Mexico', 'Brazil',
18                     'Russian Federation', 'Philippines', 'Turkey', 'Indonesia')
19  AND B.city IN ('Aurora', 'Atlixco', 'Xintai', 'Adoni', 'Dhule (Dhulla)', 'Kurashiki',
20               'Pingxiang', 'Sivas', 'Celaya', 'So Leopoldo')
21  GROUP BY A.customer_id, E.country, B.city
22  ORDER BY total_paid DESC
23  LIMIT 5) AS top_5_customers
24  ON A.country = top_5_customers.COUNTRY
25  GROUP BY A.country, top_5_customers
26  ORDER BY all_customer_count DESC
27  LIMIT 5;

```

Data Output Explain Messages Notifications

	country character varying (50)	all_customer_count bigint	top_customer_count bigint	
1	India	60	1	
2	China	53	1	
3	United States	36	1	
4	Japan	31	1	
5	Mexico	30	1	

Step one could be used without the subquery using the aggregate function but step two would need results from another table so the subquery is required.

Subqueries are useful when needing to aggregate data from two different tables without having to create a new table. It also helps for when data is constantly updating.