


Rockbuster/postgres@PostgreSQL 14

Query Editor
Query History

```

1 SELECT AVG(total_amount_paid.total_amount_paid) AS average
2 FROM
3   (SELECT A.customer_id,
4          B.first_name,
5          B.last_name,
6          E.country,
7          D.city,
8          SUM(A.amount) AS total_amount_paid
9   FROM payment A
10  INNER JOIN customer B ON A.customer_id = B.customer_id
11  INNER JOIN address C ON B.address_id = C.address_id
12  INNER JOIN city D ON C.city_id = D.city_id
13  INNER JOIN country E ON D.country_id = E.country_id
14  WHERE country IN ('India', 'China', 'United States', 'Japan', 'Mexico', 'Brazil',
15                   'Russian Federation', 'Philippines', 'Turkey', 'Indonesia')
16  AND city IN ('Aurora', 'Atlixco', 'Xintai', 'Adoni', 'Dhule (Dhulla)', 'Kurashiki',
17              'Pingxiang', 'Sivas', 'Celaya', 'So Leopoldo')
18  GROUP BY A.customer_id,
19           B.first_name,
20           B.last_name,

```

Data Output
Messages
Explain
Notifications

	average numeric	
1	107.3540000000000000	

1.

Query Editor

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```

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 address D
14                  ON A.address_id=D.address_id
15            INNER JOIN city B
16                  ON D.city_id=B.city_id
17            INNER JOIN country E
18                  ON B.country_id=E.country_id
19            INNER JOIN payment C
20                  ON A.customer_id=C.customer_id
21            WHERE E.country IN
22                   ('India', 'China', 'United States', 'Japan', 'Mexico', 'Brazil', 'Russian Federation', 'Philippines', 'Turkey', 'Indonesia')
23                   AND B.city IN ('Aurora', 'Atlixco', 'Xintai', 'Adoni', 'Dhule', 'Kurashiki', 'Pingxian', 'Sivas', 'Celaya', 'So Leopoldo')
24            GROUP BY A.customer_id, E.country, B.city
25            ORDER BY Total_Paid DESC
26            LIMIT 5) AS top_5_customers
27      ON A.country=top_5_customers.COUNTRY
28 GROUP BY A.country, top_5_customers
29 ORDER BY all_customer_count desc
30 LIMIT 5;

```

Data Output

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Explain

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	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	

- 2.
3. For Step 1 it can be performed without subquery by using the aggregate function but for Step 2 you would need a subquery because you need results from a whole different table. Subqueries are very useful when you need to summarize results that are from two different tables that are always changing like for Rockbuster. Subqueries are also useful for combining two steps together.