

Question 1

Rockbuster/postgres@PostgreSQL 10 (x86) ▾

Query Editor Query History

```

1  SELECT D.country,
2  COUNT(customer_id) AS customer_count
3  FROM customer A
4  INNER JOIN address B on A.address_id=B.address_id
5  INNER JOIN city C on B.city_id=C.city_id
6  INNER JOIN country D on C.country_id=D.country_id
7  GROUP BY country
8  ORDER BY COUNT(customer_id) DESC
9  LIMIT 10

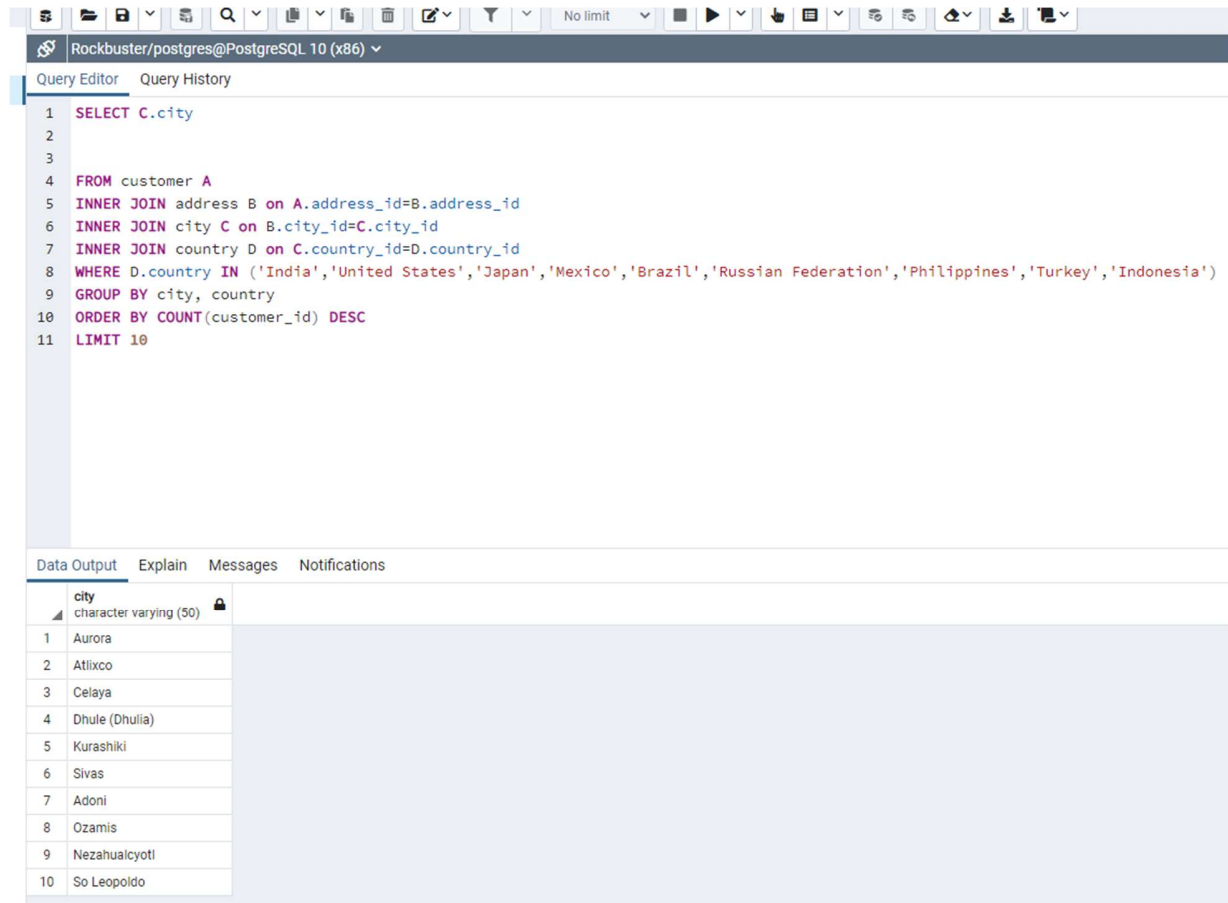
```

Data Output Explain Messages Notifications

	country character varying (50) 🔒	customer_count bigint 🔒
1	India	60
2	China	53
3	United States	36
4	Japan	31
5	Mexico	30
6	Brazil	28
7	Russian Federation	28
8	Philippines	20
9	Turkey	15
10	Indonesia	14

'Country' column and 'customer-count' column, which was gotten from the count of customer-ids from the 'customer table'. Multiple Join statements had to be written to establish a relationship. I then used the order function to display the results in descending order and the results were limited to top 10 countries.

Question 2



The screenshot shows a PostgreSQL query editor interface. The query editor displays a SQL query that selects the city from the customer table, joined with address, city, and country tables. The query filters for countries in India, United States, Japan, Mexico, Brazil, Russian Federation, Philippines, Turkey, and Indonesia. The results are grouped by city and country, ordered by the count of customer IDs in descending order, and limited to the top 10 cities.

```
1 SELECT C.city
2
3
4 FROM customer A
5 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
8 WHERE D.country IN ('India','United States','Japan','Mexico','Brazil','Russian Federation','Philippines','Turkey','Indonesia')
9 GROUP BY city, country
10 ORDER BY COUNT(customer_id) DESC
11 LIMIT 10
```

The Data Output tab shows the results of the query, displaying the city names in descending order of customer count.

city
Aurora
Atlixco
Celaya
Dhule (Dhulia)
Kurashiki
Sivas
Adoni
Ozamis
Nezahualcyotl
So Leopoldo

Question 3

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Query Editor Query History

```
1 SELECT A.customer_id,
2 B.first_name,
3 B.last_name,
4 E.country,
5 D.city,
6 SUM(amount) AS total_amount_paid
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 E.country IN ('India','China','United States','Japan','Mexico','Brazil','Russian Federation','Ph
13 AND D.city IN ('Aurora','Atlixco','Xintai','Adoni','Dhule (Dhulia)','Kurashiki','Pingxiang','Sivas','C
14 GROUP BY A.customer_id,
15 B.first_name,
16 B.last_name,
17 E.country,
18 D.city
19 ORDER BY total_amount_paid DESC
20 LIMIT 5
```

Data Output Explain Messages Notifications

	customer_id smallint	first_name character varying (45)	last_name character varying (45)	country character varying (50)	city character varying (50)	total_amount_paid numeric
1	84	Sara	Perry	Mexico	Atlixco	128.70
2	518	Gabriel	Harder	Turkey	Sivas	108.75
3	587	Sergio	Stanfield	Mexico	Celaya	102.76
4	537	Clinton	Buford	United States	Aurora	98.76
5	367	Adam	Gooch	India	Adoni	97.80