Answer 3.7

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1a.

SELECT country, COUNT(customer_id) AS num_of_customer

FROM customer

INNER JOIN address AS add ON customer.address_id = add.address_id

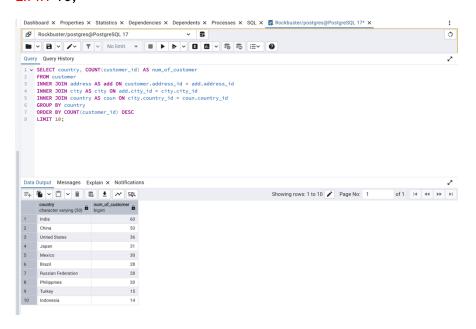
INNER JOIN city AS city ON add.city id = city.city id

INNER JOIN country AS coun ON city.country_id = coun.country_id

GROUP BY country

ORDER BY COUNT(customer_id) DESC

LIMIT 10;



<u>1b.</u>

I joined the customer table with the address table then the city table and then with country table. I chose INNER JOIN cause as I learnt earlier in this exercise, INNER JOIN looks for matching values in columns namely primary key and foreign key to connect tables plus it gets the job done without costs and we are looking for limited information so it works perfectly fine. Grouped and ordered them to simplify.

2.a

SELECT city.city, coun.country, COUNT(customer_id) AS num_of_customer

FROM customer

INNER JOIN address AS add ON customer.address id = add.address id

INNER JOIN city AS city ON add.city_id = city.city_id

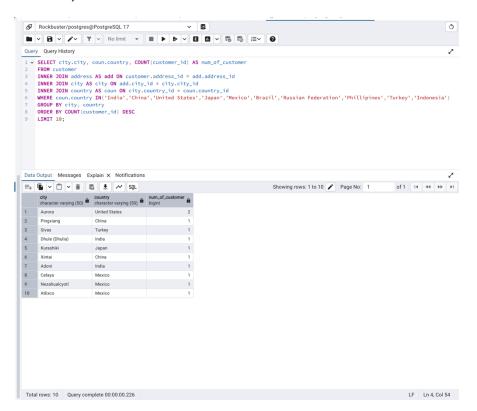
INNER JOIN country AS coun ON city.country_id = coun.country_id

WHERE coun.country IN('India','China','United States','Japan','Mexico','Brazil','Russian Federation','Phillipines','Turkey','Indonesia')

GROUP BY city, country

ORDER BY COUNT(customer_id) DESC

LIMIT 10;



I used the same command as I used earlier on the find the top 10 countries and since I already had the top countries, all I had to do was use the WHERE/IN command to get exactly what I was looking for and once again, INNER JOIN does the job perfectly well and saves time.

SELECT customer.customer_id, customer.first_name, customer.last_name, city.city, coun.country, SUM(payment.amount) AS total_payment

FROM payment

INNER JOIN customer AS customer ON payment.customer_id = customer.customer_id

INNER JOIN address AS add ON customer.address_id = add.address_id

INNER JOIN city AS city ON add.city_id = city.city_id

INNER JOIN country AS coun ON city.country_id = coun.country_id

WHERE coun.country IN('India','China','United States','Japan','Mexico','Brazil','Russian Federation','Phillipines','Turkey','Indonesia')

AND city.city IN

('Aurora','Pingxiang','Sivas','Dhule(Dhulia)','Kurashiki','Xintai','Adoni','Celaya','Nezahualcyotl','Atlixco')

GROUP BY customer.customer_id, customer.first_name, customer.last_name,city, country

ORDER BY total_payment DESC

LIMIT 5;

