

## Step 1

Query

Query History

1

SELECT d.country\_id, d.country,

2

COUNT(a.customer\_id) AS count\_of\_customers

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 d.country, d.country\_id

8

ORDER BY COUNT(a.customer\_id) DESC








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LIMIT 10

Data output

Messages

Notifications



	country_id [PK] integer	country character varying (50)	count_of_customers bigint
1	44	India	60
2	23	China	53
3	103	United States	36
4	50	Japan	31
5	60	Mexico	30
6	15	Brazil	28
7	80	Russian Federation	28
8	75	Philippines	20
9	97	Turkey	15
10	45	Indonesia	14

I had to find the count of times that a customer (thus, customer\_id) appeared in each country, so I looked at the ERD to see how the tables are connected. I needed data only from the customer and country tables, so I had to perform multiple joins to get this information.

## Step 2

Query

Query History

1

SELECT c.city, d.country,

2

COUNT(a.customer\_id) AS count\_of\_customers

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

WHERE d.country IN ('India','China','United States','Japan','Mexico','Brazil',

8

'Russian Federation','Philippines','Turkey','Indonesia')

9

GROUP BY c.city, d.country

10

ORDER BY COUNT(a.customer\_id) DESC

11

LIMIT 10

Data output

Messages

Notifications

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	city character varying (50) 🔒	country character varying (50) 🔒	count_of_customers bigint 🔒
1	Aurora	United States	2
2	Atlixco	Mexico	1
3	Xintai	China	1
4	Adoni	India	1
5	Dhule (Dhulia)	India	1
6	Kurashiki	Japan	1
7	Pingxiang	China	1
8	Sivas	Turkey	1
9	Celaya	Mexico	1
10	So Leopoldo	Brazil	1

I needed to be selective about which countries the cities are in, so I filtered the results with WHERE to only include the top 10 countries. Though looking at the results, there is no top 10, there is just a top 1 and the rest are all the same.

### Step 3

Query Query History



```
1 SELECT a.customer_ID, a.first_name, a.last_name, c.city,
2 d.country, SUM(e.amount) AS total_payment
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 INNER JOIN payment e ON a.customer_id = e.customer_id
8 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 ORDER BY total_payment DESC
12 LIMIT 5
```

Data output Messages Notifications



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