

### 3.7 - Joining tables of data

1.

[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 customer_count DESC
9 Limit 10;
```

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	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

I first selected the tables that contained the output data for country and customer. Then I had them count how many customer id's there were for each country from the customer table. Then I used the join statements to link the output data from all of the tables that contained the relevant data (country, city and customer which is the linkage between the two tables). Then I grouped by country because that's what the question is asking for. Then I used order by & limit to find the customer count for the top ten countries.

2.

Query Editor

Query History

```
1 SELECT C.city,
2     count(A.customer_id) AS customer_number
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 country IN('India', 'China', 'United States', 'Japan', 'Mexico',
8 Group By city
9 Order by customer_number DESC
10 Limit 10;
```

Data Output

Explain

Messages

Notifications

	city character varying (50)	customer_number bigint
1	Aurora	2
2	Shimoga	1
3	Aparecida de Goinia	1
4	Emeishan	1
5	Pontianak	1
6	Tarsus	1
7	Atlixco	1
8	Zalantun	1
9	Rio Claro	1
10	Tokat	1

I started with identifying the tables for city and customer. Then used inner join to link address, city and country to customer. Then identified what countries, grouped by city and descended the customer numbers with a limit of 10 rows.

3.

