

# Joining Tables of Data

## Step 1

The screenshot shows a PostgreSQL query editor window titled "Task 3.7 Joining Tables of Data.sql". The query is as follows:

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

The "Data Output" tab shows the results of the query:

	country character varying (50)	total_customers 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

Total rows: 10 of 10    Query complete 00:00:00.172    Ln 1, Col 1

SELECT C.country, count(customer\_id) AS "total\_customers"

FROM customer B

INNER JOIN address D on B.address\_id = D.address\_id

INNER JOIN city A on D.city\_id = A.city\_id

INNER JOIN country C on A.country\_id = C.country\_id

GROUP BY country

ORDER BY count(customer\_id) DESC limit 10;

Step 2

DashboardPropertiesSQLStatisticsDependenciesDependentsProcessesTask 3.7 Joining Tables of Data.sql

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QueryQuery History

Scratch Pad

```
7 ORDER BY count(customer_id) DESC limit 10;
8 SELECT C.country, A.city, count(customer_id) AS "total_customers"
9 FROM customer B
10 INNER JOIN address D on B.address_id = D.address_id
11 INNER JOIN city A on D.city_id = A.city_id
12 INNER JOIN country C on A.country_id = C.country_id WHERE country IN
13 ('India', 'China', 'United States', 'Japan', 'Mexico', 'Brazil', 'Russian Federation', 'Philippines', 'Turkey', '
14 GROUP BY country, city ORDER BY count(Customer_id) DESC limit 10;
15 SELECT B.customer_id, B.first_name AS "first_name", B.last_name AS "last_name", C.country, D.city, SUM(P.amount)
```

Data OutputMessagesNotifications

	country character varying (50)	city character varying (50)	total_customers bigint
1	United States	Aurora	2
2	Mexico	Acua	1
3	United States	Citrus Heights	1
4	Japan	Iwaki	1
5	India	Ambattur	1
6	China	Shanwei	1
7	Brazil	So Leopoldo	1
8	Russian Federation	Teboksary	1
9	China	Tianjin	1
10	Indonesia	Cianjur	1

Total rows: 10 of 10Query complete 00:00:00.076Ln 14, Col 66

```
SELECT C.country, A.city, count(customer_id) AS "total_customers"

FROM customer B

INNER JOIN address D on B.address_id = D.address_id

INNER JOIN city A on D.city_id = A.city_id

INNER JOIN country C on A.country_id = C.country_id WHERE country IN

('India', 'China', 'United States', 'Japan', 'Mexico', 'Brazil', 'Russian Federation', 'Philippines', 'Turkey', 'Indonesia')

GROUP BY country, city ORDER BY count(Customer_id) DESC limit 10;
```

Step 3

DashboardPropertiesSQLStatisticsDependenciesDependentsProcessesTask 3.7 Joining Tables of Data.sql

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QueryQuery HistoryScratch Pad

```
15 SELECT B.customer_id, B.first_name AS "first_name", B.last_name AS "last_name", C.country, D.city, SUM(P.amount)
16 FROM customer B
17 INNER JOIN address A ON B.address_id = A.address_id
18 INNER JOIN city D ON A.city_id = D.city_id
19 INNER JOIN country C ON D.country_id = C.country_id
20 INNER JOIN payment P ON B.customer_id = P.customer_id WHERE city IN
21 ('Aurora', 'Acua', 'Citrus Heights', 'Iwaki', 'Ambattur', 'Shanwei', 'So Leopoldo', 'Tianjin', 'Cianjur')
22 GROUP BY B.customer_id, first_name, last_name, country, city ORDER BY total_amount DESC limit 5;
23
```

Data OutputMessagesNotifications

	customer_id integer	first_name character varying (45)	last_name character varying (45)	country character varying (50)	city character varying (50)	total_amount numeric
1	225	Arlene	Harvey	India	Ambattur	111.76
2	424	Kyle	Spurlock	China	Shanwei	109.71
3	240	Marlene	Welch	Japan	Iwaki	106.77
4	486	Glen	Talbert	Mexico	Acua	100.77
5	537	Clinton	Buford	United States	Aurora	98.76

Total rows: 5 of 5Query complete 00:00:00.065Ln 22, Col 97

```
SELECT B.customer_id, B.first_name AS "first_name", B.last_name AS "last_name", C.country, D.city, SUM(P.amount) AS "total_amount"

FROM customer B

INNER JOIN address A ON B.address_id = A.address_id

INNER JOIN city D ON A.city_id = D.city_id

INNER JOIN country C ON D.country_id = C.country_id

INNER JOIN payment P ON B.customer_id = P.customer_id WHERE city IN

('Aurora', 'Acua', 'Citrus Heights', 'Iwaki', 'Ambattur', 'Shanwei', 'So Leopoldo', 'Tianjin', 'Cianjur')

GROUP BY B.customer_id, first_name, last_name, country, city ORDER BY total_amount DESC limit 5;
```