

1.

Query Query History

```
1 SELECT D.country,  
2     COUNT(customer_id) AS "number_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 country  
8 ORDER BY COUNT(customer_id) DESC  
9 LIMIT 10
```

Data Output Messages Notifications

	country character varying (50) 🔒	number_of_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

To complete this I had to look at the ERD. That helped me see the connections between the tables via the primary foreign keys. Once I did that I then picked an INNER JOIN as it would return only the completed information from Table A to Table D. I did have to look up the order of operations to make sure it would execute properly.

Query

Query History

```
1 SELECT D.country, city,COUNT(customer_id) AS "number_of_customers"
2 FROM customer A
3 INNER JOIN address B ON A.address_id = B. address_id
4 INNER JOIN city C ON B.city_id = C.city_id
5 INNER JOIN country D ON C.country_id = D. country_id
6 WHERE country IN('India',
7                  'China',
8                  'United States',
9                  'Japan',
10                 'Mexico',
11                 'Brazil',
12                 'Russian Federation',
13                 'Phillippines',
14                 'Turkey',
15                 'Indonesia')
16 GROUP BY country,city
17 ORDER BY COUNT(customer_id) DESC
18 LIMIT 10
19
```

Data Output

Messages

Notifications

	country character varying (50)	city character varying (50)	number_of_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

3.

Query

Query History

Scratch I

```

1  SELECT A.customer_id,A.first_name, A.last_name, D.country, C.city, SUM(E.amount)
2  AS total_amount_paid
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 city IN('Aurora',
9                'Acua',
10               'Citrus Heights',
11               'Iwaki',
12               'Ambattur',
13               'Shanwei',
14               'So Leopoldo',
15               'Teboksary',
16               'Tianjin',
17               'Cianjur')
18  GROUP BY A.customer_id,A.first_name, A.last_name, D.country, C.city
19  ORDER BY total_amount_paid DESC
20  LIMIT 5
21
22

```

Data Output

Messages

Notifications

	customer_id integer	first_name character varying (45)	last_name character varying (45)	country character varying (50)	city character varying (50)	total_amount_paid 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