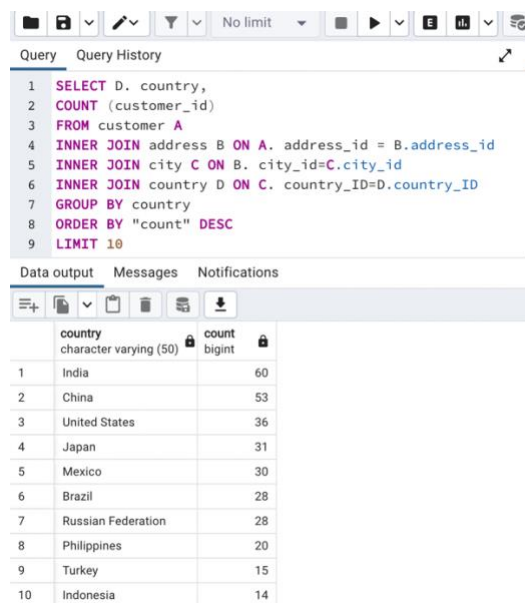


3.7 Answers- Joining tables

1. **Write a query to find the top 10 countries for Rockbuster in terms of customer numbers. (Tip: you'll have to use GROUP BY and ORDER BY, both of which follow the join.)** The Inner Join method was used since we were being asked specific values, such as top 10 countries and these were grouped by country and in descending order, which allowed us to view the Top 10.

```
SELECT D. country,
COUNT (customer_id)
FROM customer A
INNER JOIN address B ON A. address_id = B.address_id
INNER JOIN city C ON B. city_id=C.city_id
INNER JOIN country D ON C. country_ID=D.country_ID
GROUP BY country
ORDER BY "count" DESC
LIMIT 10
```



The screenshot shows a SQL query editor with a toolbar at the top. The query is as follows:

```
1 SELECT D. country,
2 COUNT (customer_id)
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" DESC
9 LIMIT 10
```

Below the query editor, the 'Data output' tab is active, showing a table with 10 rows and 2 columns: 'country' (character varying (50)) and 'count' (bigint). The results are as follows:

	country	count
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

2. **Write a query to find the top 10 cities within the top 10 countries identified in step 1.** The same INNER JOIN method/query for finding the top 10 Countries was used, except a WHERE query was inserted to specify where we wanted the *cities* from. The queries for *Country* were swapped with *City*.

```
SELECT C. city,
COUNT (customer_id)
FROM customer A
INNER JOIN address B ON A. address_id = B.address_id
INNER JOIN city C ON B. city_id=C.city_id
INNER JOIN country D ON C. country_ID=D.country_ID
WHERE country IN ('India','China','United States',
                  'Japan','Mexico','Brazil','Russian Federation',
                  'Philippines','Turkey','Indonesia')
GROUP BY city
ORDER BY "count" DESC
LIMIT 10
```

