

Write a query to find the top 10 countries for Rockbuster in terms of customer numbers

```
SELECT d.country_id, d.country, COUNT (a.customer_id) AS count_of_customers
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 d.country, d.country_id
ORDER BY COUNT (a.customer_id) DESC
LIMIT 10;
```

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.

Write a query to find the top 10 cities within the top 10 countries identified above

```
SELECT c.city, d.country, COUNT(a.customer_id) AS count_of_customers
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 d.country IN ('India', 'China', 'United States', 'Japan', 'Mexico', 'Brazil', 'Russian Federation',
'Philippines', 'Turkey', 'Indonesia')
GROUP BY c.city, d.country_id
ORDER BY COUNT (a.customer_id) DESC
LIMIT 10;
```

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.

Write a query to find the top 5 customers in the top 10 cities who have paid the highest total amounts to Rockbuster

```
SELECT a.customer_id, a.first_name, a.last_name, c.city, d.country, SUM(e.amount) AS total_payment
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
INNER JOIN payment e ON a.customer_id = e.customer_id
WHERE c.city IN ('Aurora', 'Atlixco', 'Xintai', 'Adoni', 'Dhule (Dhulia)', 'Kurashiki', 'Pingxiang', 'Sivas',
'Celaya', 'So Leopoldo')
GROUP BY a.customer_id, c.city, d.country
ORDER BY total_payment DESC
LIMIT 5;
```