

A3 - 3.7

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

- Ask – top 10 country names for number of customers
- Tables required –
 - customer > customer_id for customer count
 - customer > address_id to connect with address table
 - address > city_id to connect with city table
 - city > country_id to connect with country table
 - country > county name
- As limited information is required from each table, INNER JOIN is the best choice to connect them
- Alias
 - customer table > cust
 - address table > addr
 - city table > cty
 - country table > ctry

Query

Query History

```

1  SELECT
2      country,
3      count(cust.customer_id) as Number_of_customer
4  FROM customer cust
5  INNER JOIN address addr ON cust.address_id = addr.address_id
6  INNER JOIN city cty ON addr.city_id = cty.city_id
7  INNER JOIN country ctry ON cty.country_id = ctry.country_id
8  GROUP BY ctry.country_id
9  ORDER BY Number_of_customer DESC
10 LIMIT 10
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Data Output

Messages

Notifications

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SQL

	country character varying (50)	number_of_customer 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

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(2) Write a query to identify the top 10 cities that fall within the top 10 countries you identified in step 1. (Hint: the top 10 cities can be in any of the countries identified—you don't need to create a separate list for each country.)

- Ask – top 10 city names for number of customers from the top 10 countries from the Question (1)
- Tables required –
 - customer > customer_id for customer count
 - customer > address_id to connect with address table
 - address > city_id to connect with city table
 - city > country_id to connect with country table
 - country > county name
- As limited information is required from each table, INNER JOIN is the best choice to connect them
- Alias
 - customer table > cust
 - address table > addr
 - city table > cty
 - country table > ctry

Query

Query History

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SELECT

cty.city,

ctry.country,

COUNT(cust.customer_id) AS number_of_customers

FROM customer AS cust

INNER JOIN address AS addr ON cust.address_id = addr.address_id

INNER JOIN city AS cty ON addr.city_id = cty.city_id

INNER JOIN country AS ctry ON cty.country_id = ctry.country_id

WHERE

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

GROUP BY cty.city, ctry.country

ORDER BY number_of_customers DESC

LIMIT 10

Data Output

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(3) Write a query to find the top 5 customers from the top 10 cities who've paid the highest total amounts to Rockbuster.

- Ask – top 5 customers with highest payment to Rockbuster from top 10 Cities in top 10 countries
- Tables required –
 - customer > customer_id to connect with payment table
 - customer > first_name
 - customer > last_name
 - customer > address_id to connect with address table
 - address > city_id to connect with city table
 - city > country_id to connect with country table
 - country > county name
 - payment > amount
- As limited information is required from each table, INNER JOIN is the best choice to connect them
- Alias
 - customer table > cust
 - address table > addr
 - city table > cty
 - country table > ctry
 - payment table > payt

Query Query History

```
1 SELECT
2     cust.customer_id,
3     cust.first_name,
4     cust.last_name,
5     cty.city,
6     ctry.country,
7     SUM(payt.amount) AS total_amount_paid
8 FROM payment AS payt
9 INNER JOIN customer AS cust ON payt.customer_id = cust.customer_id
10 INNER JOIN address AS addr ON cust.address_id = addr.address_id
11 INNER JOIN city AS cty ON addr.city_id = cty.city_id
12 INNER JOIN country AS ctry ON cty.country_id = ctry.country_id
13 WHERE
14     cty.city IN ('Aurora', 'Atlixco', 'Xintai', 'Adoni', 'Dhule (Dhulia)', 'Kurashiki', 'Pingxiang', 'Sivas', 'Celaya', 'So Leopoldo')
15 AND
16     ctry.country IN ('India', 'China', 'United States', 'Japan', 'Mexico', 'Brazil', 'Russian Federation', 'Philippines', 'Turkey', 'Indonesia')
17 GROUP BY cust.customer_id, cust.first_name, cust.last_name, cty.city, ctry.country
18 ORDER BY total_amount_paid DESC
19 LIMIT 5
20
```

Data Output Messages Notifications

SQL

Showing rows: 1 to 5 Page N

	customer_id integer	first_name character varying (45)	last_name character varying (45)	city character varying (50)	country character varying (50)	totalAmountPaid numeric
1	84	Sara	Perry	Atlixco	Mexico	128.70
2	518	Gabriel	Harder	Sivas	Turkey	108.75
3	587	Sergio	Stanfield	Celaya	Mexico	102.76
4	537	Clinton	Buford	Aurora	United States	98.76
5	367	Adam	Gooch	Adoni	India	97.80