1A.

SELECT country,

COUNT(customer\_id) AS customer\_count

FROM customer

INNER JOIN address ON customer.address\_id = address.address\_id

INNER JOIN city ON address.city\_id = city.city\_id

INNER JOIN country ON city.country\_id = country.country\_id

**GROUP BY country** 

ORDER BY COUNT(customer\_id) DESC

LIMIT 10

Country customer\_count

"India" 60

"China" 53

"United States" 36

"Japan" 31

"Mexico" 30

"Brazil" 28

"Russian Federation" 28

"Philippines" 20

"Turkey" 15

"Indonesia" 14

1B. I started by looking at my ERD and deciding which tables I would need to answer the question. Once I determined I would need customer, address, city, and country I started with customer because I customer has the address\_id key within it which would then link to address and so on all the way down to country and then I simply input the syntax for joining all the tables and limited the results to 10 to get the top 10.

SELECT city, country,

COUNT (customer\_id) AS customer\_count

FROM customer

INNER JOIN address ON customer.address\_id = address.address\_id

INNER JOIN city ON address.city\_id = city.city\_id

INNER JOIN country ON city.country\_id = country.country\_id

WHERE country IN ('India', 'China', 'United States', 'Japan', 'Mexico', 'Brazil', 'Russian

Federation', 'Philippines', 'Turkey', 'Indonesia')

GROUP BY city, country

ORDER BY COUNT (customer\_id) DESC

LIMIT 10

customer\_count city country "Aurora" "United States" 2 "Atlixco" "Mexico" 1 "Xintai" "China" 1 "Adoni" "India" 1 "Dhule (Dhulia)" "India" 1 "Kurashiki" "Japan" 1 "Pingxiang" "China" 1 "Sivas" "Turkey" 1 "Celaya" "Mexico" 1

"Brazil"

2B. Since I already joined all the tables I would need for this question, I simply added city into the formula and added the "WHERE" function to limit it to the countries that were in my top 10.

3A.

"So Leopoldo"

SELECT customer\_id, first\_name, last\_name, country, city,

1

SUM (payment.amount) AS total\_payment

FROM customer

INNER JOIN payment ON customer.customer\_id = payment.customer\_id

INNER JOIN address ON customer.address\_id = address.address\_id

INNER JOIN city ON address.city\_id = city.city\_id

INNER JOIN country ON city.country\_id = country.country\_id

WHERE city IN ('Aurora', 'Atlixco', 'Xintai', 'Adoni', 'Dhule (Dhulia)', 'Kurashiki', 'Pingxiang', 'Sivas', 'Celaya', 'So Leopoldo')

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

GROUP BY customer.customer\_id, first\_name, last\_name, country, city

ORDER BY total\_payment DESC

LIMIT 5

## 3B.

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