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CareerFoundry DA Immersion

Task 3.7

1a.

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(customer\_id) DESC

LIMIT 10

1b.

"India" 60

"China" 53

"United States" 36

"Japan" 31

"Mexico" 30

"Brazil" 28

"Russian Federation" 28

"Philippines" 20

"Turkey" 15

"Indonesia" 14

1c.

I looked at the ERD and saw that the Country table was linked to the customer tables thru the city and address tables, so multiple INNER JOINs would be utilized. Saw the example that used COUNT of staff\_id’s and switched it to customer ID. Saw the output, which was alphabetical by country, so I added the ORDER BY(customer\_id) DESC and then LIMIT 10 for the top 10 countries.

2a.

SELECT C.city,

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

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

2b.

"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

"So Leopoldo" "Brazil" 1

2c.

I modified the top 10 countries prompt to include city in the output, and used a WHERE/IN clause to limit the cities to the top 10 countries we identified in Step 1. Had to modify the group by to include both city and country, and kept the ORDER BY/ DESC and LIMIT 10 the same. Unsure that this was completely the correct output, because only one city was over 1 customer. So besides that one it could be just giving me 9 arbitrary cities with customers within the 10 countries.

3a.

SELECT A.customer\_id,

A.first\_name,

A.last\_name,

C.city,

D.country,

SUM(E.amount) AS total\_amount\_paid

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 country IN( 'India',

'China',

'United States',

'Japan',

'Mexico',

'Brazil',

'Russian Federation',

'Philippines',

'Turkey',

'Indonesia')

AND city IN ('Aurora',

'Atlixco',

'Xintai',

'Adoni',

'Dhule (Dhulia)'

'Kurashiki'

'Pingxiang'

'Sivas'

'Celaya'

'So Leopoldo')

GROUP BY A.customer\_id,

first\_name,

last\_name,

city,

country

ORDER BY SUM(E.amount)DESC

LIMIT 5

3b.

84 "Sara" "Perry" "Atlixco" "Mexico" 128.70

537 "Clinton" "Buford" "Aurora" "United States" 98.76

367 "Adam" "Gooch" "Adoni" "India" 97.80

564 "Bob" "Pfeiffer" "Xintai" "China" 82.78

330 "Scott" "Shelley" "Aurora" "United States" 60.82

3c.

This one took a lot of trial and error, trying to link the payment table to the customer table thru customer\_id. Wouldn’t let me put an E. before SUM to annotate the amount as from the “E” payment table. Changed order by to SUM(amount) and LIMIT to 5.

I’m going to tinker around a bit more to see if I can get top 5 distinct individuals, as Clinton Buford of Aurora (CO?) appears twice in the top 5.

Couldn’t sort it out, DISTINCT not working. Will submit and standby for feedback.

\*revised per Elizabeth’s hints/instruction\*

BONUS/FINAL PROJECT:

Query to get most profitable movies:

SELECT A.title,

A.release\_year,

SUM(D.amount) AS rental\_revenue

FROM film A

INNER JOIN inventory B ON A.film\_id = B.film\_id

INNER JOIN rental C ON B.inventory\_id = C.inventory\_id

INNER JOIN payment D ON C.rental\_id = D.rental\_id

GROUP BY A.film\_id,

A.title,

A.release\_year,

D.amount

ORDER BY rental\_revenue DESC

LIMIT 10

Output

"Trip Newton" 2006 104.79

"Scalawag Duck" 2006 104.79

"Bucket Brotherhood" 2006 104.79

"Forrester Comancheros" 2006 94.81

"Durham Panky" 2006 94.81

"Boogie Amelie" 2006 89.82

"Coma Head" 2006 89.82

"Cat Coneheads" 2006 89.82

"Truman Crazy" 2006 84.83

"Dogma Family" 2006 84.83

Query to get Nations ranked by rental revenue:

SELECT D.country,

SUM(E.amount) AS country\_total\_rental

FROM payment E

RIGHT JOIN customer A ON E.customer\_id = A.customer\_id

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

ORDER BY SUM(E.amount) DESC

LIMIT 10

Output:

"India" 6034.78

"China" 5251.03

"United States" 3685.31

"Japan" 3122.51

"Mexico" 2984.82

"Brazil" 2919.19

"Russian Federation" 2765.62

"Philippines" 2219.70

"Turkey" 1498.49

"Indonesia" 1352.69