

Assessment

Task: 1 (join multiple tables using left join)

List all Countries and customers related to these countries. For each country displaying its name in English, the name of the city customer is located in as well as the name of the customer. Return even countries without related cities and customers.

```
SELECT co.country_name_eng AS Country , ci.city_name AS City , cu.customer_name AS  
Customer  
  
FROM country co  
  
LEFT JOIN city ci ON co.id = ci.country_id  
  
LEFT JOIN customer cu ON ci.id = cu.city_id  
  
ORDER BY co.country_name_eng , ci.city_name , cu.customer_name;
```

- Here we have joined country and city tables using LEFT join so it shows all countries even if there is no cities in particular country.
- Then we have joined city and customer tables again using LEFT join to show all the cities even if they don't have customers.
- So the output shows all the countries which has respective city and customer and also includes countries which don't have city and customer.

Assessment

Task: 2 (join multiple tables using both left and inner join)

Return the list of all countries that have pairs(exclude countries which are not referenced by any city). For such pairs return all customers. Return even pairs of not having a single customer

```
SELECT co.country_name_eng AS Country , ci.city_name AS City , cu.customer_name AS  
Customer  
  
FROM country co  
  
INNER JOIN city ci ON co.id = ci.country_id  
  
LEFT JOIN customer cu ON ci.id = cu.city_id  
  
ORDER BY co.country_name_eng, ci.city_name, cu.customer_name;
```

- Here we have joined city and country tables using INNER join to get all the countries that has respective and remove countries that does not have respective city.
- Then we performed LEFT join between customer and city table to get all cities and their respective customers. Also include cities that does not have customers.
- So the output shows all the countries that have cities and excludes the countries that does not have city (Spain, Russia). Also it shows all the cities with their respective customers and includes cities that does not have customers (Belgrade, Los Angeles, Warsaw).