- Write SQL query to solve the problem given below.

Consider three table named as city, customer and country The city table is given below :

```
mysql> select * from country;
+------------+--------------------------+--------------------------+--------------+
| country_id | country_name             | country_name_eng         | country_code |
+------------+--------------------------+--------------------------+--------------+
|          1 | Deutschland              | Germany                  | DEU          |
|          2 | Srbija                   | Serbia                   | SRB          |
|          3 | Hrvatska                 | Croatia                  | HRV          |
|          4 | United States of America | United States of America | USA          |
|          5 | Polska                   | Poland                   | POL          |
|          6 | Espana                   | Spain                    | ESP          |
|          7 | Rossiya                  | Russia                   | RUS          |
+------------+--------------------------+--------------------------+--------------+
7 rows in set (0.00 sec)
```

```
mysql> select * from city;
+---------+-------------+-----------+-------------+------------+
| city_id | city_name   | lat       | longitude   | country_id |
+---------+-------------+-----------+-------------+------------+
|       1 | Berlin      | 52.520008 |   13.404954 |          1 |
|       2 | Belgrade    | 44.787197 |   20.457273 |          2 |
|       3 | Zagreb      | 45.815399 |   15.966568 |          3 |
|       4 | New York    | 40.730610 |  -73.935242 |          4 |
|       5 | Los Angeles | 34.052235 | -118.243683 |          4 |
|       6 | Warsaw      | 52.237049 |   21.017532 |          5 |
+---------+-------------+-----------+-------------+------------+
6 rows in set (0.00 sec)
```

```
mysql> select * from customer;
+-------------+---------------+---------+-------------------+--------------+---------------------+
| customer_id | customer_name | city_id | customer_address  | next_call_date | ts_inserted         |
+-------------+---------------+---------+-------------------+--------------+---------------------+
|           1 | Jewelry Store |       4 | Long Street 120   | 2020-01-21   | 2025-09-26 17:51:50 |
|           2 | Bakery        |       1 | Kurfurstendamm 25 | 2020-02-21   | 2025-09-26 17:51:50 |
|           3 | Cafe          |       1 | Tauentzienstrabe 44 | 2020-01-21 | 2025-09-26 17:51:50 |
|           4 | Restaurant    |       3 | Ulica lipa 15     | 2020-01-21   | 2025-09-26 17:51:50 |
+-------------+---------------+---------+-------------------+--------------+---------------------+
4 rows in set (0.00 sec)
```

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.

```
mysql> 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.country_id = ci.country_id
    -> LEFT JOIN
    ->     customer cu ON ci.city_id = cu.city_id
    -> ORDER BY
    ->     co.country_name_eng, ci.city_name, cu.customer_name;
+-------------------------+-------------+---------------+
| country                 | city        | customer      |
+-------------------------+-------------+---------------+
| Croatia                 | Zagreb      | Restaurant    |
| Germany                 | Berlin      | Bakery        |
| Germany                 | Berlin      | Cafe          |
| Poland                  | Warsaw      | NULL          |
| Russia                  | NULL        | NULL          |
| Serbia                  | Belgrade    | NULL          |
| Spain                   | NULL        | NULL          |
| United States of America | Los Angeles | NULL          |
| United States of America | New York    | Jewelry Store |
+-------------------------+-------------+---------------+
9 rows in set (0.01 sec)
```

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

```
mysql> 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.country_id = ci.country_id
    -> LEFT JOIN customer cu ON ci.city_id = cu.city_id
    -> ORDER BY co.country_name_eng, ci.city_name, cu.customer_name;
+--------------------------+-------------+---------------+
| country                  | city        | customer      |
+--------------------------+-------------+---------------+
| Croatia                  | Zagreb      | Restaurant    |
| Germany                  | Berlin      | Bakery        |
| Germany                  | Berlin      | Cafe          |
| Poland                   | Warsaw      | NULL          |
| Serbia                   | Belgrade    | NULL          |
| United States of America | Los Angeles | NULL          |
| United States of America | New York    | Jewelry Store |
+--------------------------+-------------+---------------+
7 rows in set (0.00 sec)
```