**Write SQL query to solve the problem given below.**

* **Create database:-**

CREATE DATABASE mydatabase;

* **Create country table:-**

CREATE TABLE contry(id int PRIMARY KEY AUTO\_INCREMENT,

country\_name varchar(20),

country\_name\_eng varchar(20),

country\_code varchar(20));

* **Inserte data in country table:-**

INSERT INTO contry VALUES(1,"Deutschland","Germany","DEU"),

(2,"Srbija","Aerbia","SRB"),

(3,"Hrvatska","Croatia","HRV"),

(4,"United States of America","United state of america","USA"),

(5,"Polska","Poland","POL"),

(6,"Esparia","Spain","ESP"),

(7,"Rossiya","Russia","RUS");

* **Create city table:-**

CREATE TABLE city(id int PRIMARY KEY,

city\_name varchar(20),

lat decimal(10,6),

lon decimal(10,6),

country\_id int,

FOREIGN KEY(country\_id) REFERENCES country(id) );

* **Insert data in city table:-**

INSERT INTO city VALUES (1,"berlin",52.520008,13.404954,1),

(2,"berlin",44.787197,20.457273,2),

(3,"zageb",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);

* **Create customer table:-**

CREATE TABLE customer(id int PRIMARY KEY,

customer\_name varchar(20),

city\_id int,

FOREIGN KEY(city\_id) REFERENCES city(id),

customer\_address varchar(20),

next\_call\_date date,

ts\_inserted datetime);

* **Inserte data in customer table:-**

INSERT INTO customer VALUES (1,"jewelry store",4,"long street 120",'2020-01-21','2020-01-09 14:01:20.000'),

(2,"bakery",1,"kufurstendamm 25",'2020-02-21','2020-01-09 17:52:15.000'),

(3,"cafe",1,"tauentzienstrabe 44",'2020-01-21','2020-01-10 08:02:49.000'),

(4,"resturant",3,"uice lipa 15",'2020-01-21','2020-01-10 09:20:21.000');

**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 country.country\_name\_eng, city.city\_name, customer.customer\_name

FROM country

LEFT JOIN city ON city.country\_id = country.id

LEFT JOIN customer ON customer.city\_id = city.id;

**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 country.country\_name\_eng, city.city\_name, customer.customer\_name

FROM country

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

LEFT JOIN customer ON customer.city\_id = city.id;