Write SQL query to solve the problem given below

Consider three table named as city, customer and country

[CREATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) COUNTRY

(

COUNTRY\_ID INT PRIMARY KEY AUTO\_INCREMENT,

COUNTRY\_NAME  VARCHAR(45),

COUNTRYNAME\_ENG  VARCHAR(45),

COUNTRY\_CODE  VARCHAR(45)

);

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO country [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values)

(1,"DEUTSCHLAND","GERMANY","DEU");

(2,"SRBIJA","SERBIA","SRB"),

(3,"HARVATSKA","CROATIA","HRV"),

(4,"UNITED STATES OF AMERIKA","UNITED STATES OF AMERICA ","USA"),

(5,"POLSKA","POLAND","POL"),

(6,"ESPANA","SPAIN","ESP"),

(7,"ROSSIYA","RUSSIA","RUS");

[CREATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) CITY

(

CITY\_ID INT PRIMARY KEY AUTO\_INCREMENT,

CITY\_NAME  VARCHAR(45) ,

LATITUDE  VARCHAR(200),

LONGITUDE  VARCHAR(200),

COUNTRY\_ID\_FK  INT,

FOREIGN KEY(COUNTRY\_ID\_FK) REFERENCES COUNTRY (COUNTRY\_ID)

);

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO CITY [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) (1,"BERLIN","52.520008","13.404954",1);

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO `city` (`CITY\_ID`, `CITY\_NAME`, `LATITUDE`, `LONGITUDE`, `COUNTRY\_ID\_FK`) [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) (NULL, 'BELGRADE', '44.787197', '20457273', '2'), (NULL, 'ZAGREB', '45.815399', '15.966568', '3'), (NULL, 'NEWYORK', '40.730610', '-73.935242', '4'), (NULL, 'LOS ANGELES ', '34.052235', '-118.243683', '4'), (NULL, 'WARSAW', '52.237049', '21.017532', '5');

[CREATE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/create-table.html) CUSTOMER

(

 CUST\_ID  INT  PRIMARY KEY AUTO\_INCREMENT,

 CUST\_NAME  VARCHAR(45),

 CITY\_ID\_FK  INT,

 FOREIGN KEY(CITY\_ID\_FK)REFERENCES CITY (CITY\_ID),

 CUST\_ADDRESS  VARCHAR(200),

 NEXT\_CALL\_DATE  VARCHAR(200),

 TS\_INSERTED  TIMESTAMP

);

[INSERT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/insert.html) INTO `customer` (`CUST\_ID`, `CUST\_NAME`, `CITY\_ID\_FK`, `CUST\_ADDRESS`, `NEXT\_CALL\_DATE`, `TS\_INSERTED`) [VALUES](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/miscellaneous-functions.html%23function_values) (NULL, 'JEWELERY STORE', '4', 'LONG STREET 120', '2020-01-21', '2020-01-09 18:27:11'), (NULL, 'BAKERY', '1', 'KURFURSTENDAMM 25', '2020-02-21', '2020-01-09 17:52:15'), (NULL, 'CAFE', '1', 'TAUENTZIENSTRABE 44', '2020-01-21', '2020-01-10 08-02-49'), (NULL, 'RESTAURANT ', '3', 'ULICA LIPA 15', '2020-01-21', '2020-01-10 09-20-21');

**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](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) country.countryname\_eng, city.city\_name, customer.cust\_name

FROM country

[LEFT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-functions.html%23function_left) JOIN city ON city.COUNTRY\_ID\_FK = COUNTRY\_ID

[LEFT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-functions.html%23function_left) JOIN customer ON customer.CITY\_ID\_FK = 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](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) country.COUNTRYNAME\_ENG, city.city\_name, customer.cust\_name

FROM country

INNER JOIN city ON city.COUNTRY\_ID\_FK = COUNTRY\_ID

[LEFT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-functions.html%23function_left) JOIN customer ON customer.CITY\_ID\_FK = CITY\_ID;

