**DBMS ASSESSMENT**

**Table 1**

CREATE TABLE city (id int PRIMARY KEY, city\_name varchar(50), lat DECIMAL(10,06), longe DECIMAL(10,06), country\_id int);

INSERT INTO city(id, city\_name, lat, longe, country\_id) VALUES (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);

**Table 2**

CREATE TABLE Customer\_2 (id int PRIMARY KEY, customer\_name varchar(50), city\_id int, customer\_address varchar(100), next\_call\_date DATE, ts\_inserted TIMESTAMP);

INSERT INTO customer\_2 (id, customer\_name, city\_id, customer\_address, next\_call\_date, ts\_inserted) VALUES

(1, "Jewelry Store", 4, "Long Street 120", "2020-01-21", "2020-01-09 14:01:20"),

(2, "Bakery", 1, "Kurfurstendamm 25", "2020-02-21", "2020-01-09 17:52:15"),

(3, "Cafe", 1, "Tauentzienstrabe 44", "2020-01-21", "2020-01-08 08:02:49"),

(4, "Restaurant", 3, "Ulica lipa 15", "2020-01-21", "2020-01-10 09:20:21");

**Table 3**

CREATE TABLE country(id int PRIMARY KEY, country\_name varchar(50), country\_name\_eng varchar(50), country\_code varchar(3));

INSERT INTO Country (id, country\_name, country\_name\_eng, country\_code) VALUES

(1, "Deutschland", "Germany", "DEU"),

(2, "Srbija", "Serbia", "SRB"),

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

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

(5, "Espana", "Spain", "ESP"),

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

* **Task 1 :-**

SELECT Country.country\_name\_eng AS Country,

City.city\_name AS City,

Customer.customer\_name AS Customer

FROM Country

LEFT JOIN City ON Country.id = City.country\_id

LEFT JOIN Customer ON City.id = Customer.city\_id

ORDER BY Country.country\_name\_eng, City.city\_name;

* Task 2 :-

SELECT Country.country\_name\_eng AS Country,

City.city\_name AS City,

Customer.customer\_name AS Customer

FROM Country

LEFT JOIN City ON Country.id = City.country\_id

LEFT JOIN (SELECT City.id AS city\_id, Customer.customer\_name

FROM City INNER JOIN Customer ON City.id = Customer.city\_id) AS city\_customers

ON City.id = city\_customers.city\_id

WHERE City.city\_name IS NOT NULL

ORDER BY Country.country\_name\_eng, City.city\_name, Customer.customer\_name;