Assessment

Write SQL query to solve the problem given below

Consider three table named as city, customer and country

Create Table City:

```
1  CREATE TABLE city (
2      id INT PRIMARY KEY,
3      city_name VARCHAR(100),
4      lat FLOAT,
5      longe FLOAT,
6      country_id INT
7  );
```

```
1  INSERT INTO city VALUES (1, 'Berlin', 52.520008, 13.404954, 1);
2  INSERT INTO city VALUES (2, 'Belgrade', 44.787197, 20.457273, 2);
3  INSERT INTO city VALUES (3, 'Zagreb', 45.815399, 15.966568, 3);
4  INSERT INTO city VALUES (4, 'New York', 40.730610, -73.935242, 4);
5  INSERT INTO city VALUES (5, 'Los Angeles', 34.052235, -118.243683, 4);
6  INSERT INTO city VALUES (6, 'Warsaw', 52.237049, 21.017532, 5);
```

id	city_name	lat	longe	country_id
1	Berlin	52.52	13.405	1
2	Belgrade	44.7872	20.4573	2
3	Zagreb	45.8154	15.9666	3
4	New York	40.7306	-73.9352	4
5	Los Angeles	34.0522	-118.244	4
6	Warsaw	52.237	21.0175	5

Create Table Customer

```
1  CREATE TABLE customer (
2      id INT PRIMARY KEY,
3      customer_name VARCHAR(100),
4      city_id INT,
5      customer_address VARCHAR(200),
6      next_call_date DATE,
7      ts_inserted TIMESTAMP
8  );
```

```
1  INSERT INTO customer VALUES (1, 'Jewelry Store', 1, 'Long Street 120', '2020-01-21', '2020-01-19
   14:01:20.000');
2  INSERT INTO customer VALUES (2, 'Bakery', 1, 'Kurfürstendamm 25', '2020-02-21', '2020-01-09 17:52:15.000');
3  INSERT INTO customer VALUES (3, 'Café', 1, 'Tauentzienstraße 44', '2020-01-21', '2020-01-10 08:29:49.000');
4  INSERT INTO customer VALUES (4, 'Restaurant', 3, 'Ulica Ipa 15', '2020-01-21', '2020-01-20 09:21:00.000');
```

id	customer_name	city_id	customer_address	next_call_date	ts_inserted
1	Jewelry Store	1	Long Street 120	2020-01-21	2020-01-19 14:01:20
2	Bakery	1	Kurfürstendamm 25	2020-02-21	2020-01-09 17:52:15
3	Café	1	Tauentzienstraße 44	2020-01-21	2020-01-10 08:29:49
4	Restaurant	3	Ulica Ipa 15	2020-01-21	2020-01-20 09:21:00

Create Table Country

```
1  CREATE TABLE country (
2      id INT PRIMARY KEY,
3      country_name VARCHAR(100),
4      country_name_eng VARCHAR(100),
5      country_code VARCHAR(3)
6  );
```

```
1  INSERT INTO country VALUES (1, 'Deutschland', 'Germany', 'DEU');
2  INSERT INTO country VALUES (2, 'Srbija', 'Serbia', 'SRB');
3  INSERT INTO country VALUES (3, 'Hrvatska', 'Croatia', 'HRV');
4  INSERT INTO country VALUES (4, 'United States of America', 'United States of America', 'USA');
5  INSERT INTO country VALUES (5, 'Polska', 'Poland', 'POL');
6  INSERT INTO country VALUES (6, 'España', 'Spain', 'ESP');
7  INSERT INTO country VALUES (7, 'Rossiya', 'Russia', 'RUS');
```

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	España	Spain	ESP
7	Rossiya	Russia	RUS

Task 1

```
1   SELECT
2       country.country_name_eng AS country_name,
3       city.city_name,
4       customer.customer_name
5   FROM
6       country
7   LEFT JOIN
8       city ON country.id = city.country_id
9   LEFT JOIN
10      customer ON city.id = customer.city_id;
```

Assessment

Output

country_name	city_name	customer_name
Germany	Berlin	Jewelry Store
Germany	Berlin	Bakery
Germany	Berlin	Café
Croatia	Zagreb	Restaurant
Serbia	Belgrade	*NULL*
United States of America	New York	*NULL*
United States of America	Los Angeles	*NULL*
Poland	Warsaw	*NULL*
Spain	*NULL*	*NULL*
Russia	*NULL*	*NULL*

Task 2

```sql
1  SELECT
2      country.country_name_eng AS country_name,
3      city.city_name,
4      customer.customer_name
5  FROM
6      country
7  INNER JOIN
8      city ON country.id = city.country_id
9  LEFT JOIN
10     customer ON city.id = customer.city_id;
```

Output

country_name	city_name	customer_name
Germany	Berlin	Jewelry Store
Germany	Berlin	Bakery
Germany	Berlin	Café
Croatia	Zagreb	Restaurant
Serbia	Belgrade	*NULL*
United States of America	New York	*NULL*
United States of America	Los Angeles	*NULL*
Poland	Warsaw	*NULL*