

Assignment 4 :

// State table

state_name	state_id
rajasthan	11
uttar pradesh	12

```
CREATE TABLE state(  
state_name VARCHAR(200) NOT NULL,  
state_id INT PRIMARY KEY  
);
```

// city table

city_id	city_name	state_id
6	jaipur	11
7	agra	12
8	lucknow	12

```
CREATE TABLE city(  
city_id INT PRIMARY KEY,  
city_name VARCHAR(200) NOT NULL,  
state_id INT,
```

```
FOREIGN KEY (state_id) REFERENCES state(state_id) ON DELETE CASCADE  
);
```

// pincode table

pincode_id	pincode	city_id
1	302020	6
2	302021	7
3	302022	8

```
CREATE TABLE pincode(  
pincode_id INT PRIMARY KEY,  
pincode VARCHAR(10) NOT NULL,  
city_id INT,
```

```
FOREIGN KEY (city_id) REFERENCES city(city_id) ON DELETE CASCADE  
);
```

// Inserting data into the tables

```
INSERT INTO pincode (pincode_id, pincode, city_id)  
VALUES  
(1, '302020', 6),  
(2, '302021', 7),  
(3, '302022', 8);
```

```
INSERT INTO city (city_id, city_name, state_id)  
VALUES  
(6, 'jaipur', 11),  
(7, 'agra', 12),  
(8, 'lucknow', 12);
```

```
INSERT INTO state (state_id, state_name)  
VALUES  
(11, 'rajasthan'),  
(12, 'uttar pradesh');
```

// query asked in question.

Q) write a SQL query for that returns a Resultset containing Zip Code, City Names and States ordered by State Name and City Name.

```
SELECT
    p.pincode AS Zip_Code,
    c.city_name AS City_Name,
    s.state_name AS State_Name
FROM
    pincode p
INNER JOIN
    city c ON p.city_id = c.city_id
INNER JOIN
    state s ON c.state_id = s.state_id
ORDER BY
    s.state_name ASC,
    c.city_name ASC;
```

// result

Zip_Code	City_Name	State_Name
302020	jaipur	rajasthan
302021	agra	uttar pradesh
302022	lucknow	uttar pradesh