

Experiment - 2

```
CREATE DATABASE store;  
USE store;
```

```
CREATE TABLE location (  
    city_id VARCHAR(50) PRIMARY KEY,  
    city VARCHAR(50),  
    state VARCHAR(50),  
    country VARCHAR(50)  
);
```

```
INSERT INTO location (city_id, city, state, country)  
VALUES  
('CI01', 'Kolkata', 'West Bengal', 'India'),  
('CI02', 'Sealdah', 'West Bengal', 'India'),  
('CI03', 'Tatanagar', 'Jharkhand', 'India'),  
('CI04', 'Bokaro', 'Jharkhand', 'India');
```

```
CREATE TABLE date (  
    date_id VARCHAR(50) PRIMARY KEY,  
    day VARCHAR(10),  
    month VARCHAR(15),  
    year INT  
);
```

```
INSERT INTO date (date_id, day, month, year) VALUES  
('DO1', 'Monday', 'January', 2024),  
('DO2', 'Wednesday', 'February', 2024),  
('DO3', 'Friday', 'March', 2025),  
('DO4', 'Sunday', 'April', 2025);
```

```
CREATE TABLE product (  
    p_id VARCHAR(50) PRIMARY KEY,  
    p_name VARCHAR(50),  
    p_tag VARCHAR(50),  
    p_price DECIMAL(10)  
);
```

```
INSERT INTO product (p_id, p_name, p_tag, p_price) VALUES  
('P01', 'Laptop', 'Electronics', 75000),  
('P02', 'Smartphone', 'Electronics', 45000),  
('P03', 'Table', 'Furniture', 12000),  
('P04', 'Watch', 'Accessories', 5500);
```

```
CREATE TABLE sales (  
    sales_id INT PRIMARY KEY,  
    city_id VARCHAR(50),  
    date_id VARCHAR(50),  
    p_id VARCHAR(50),  
    total_sales INT,  
    FOREIGN KEY (city_id) REFERENCES location(city_id),  
    FOREIGN KEY (date_id) REFERENCES date(date_id),  
    FOREIGN KEY (p_id) REFERENCES product(p_id)  
);
```

```
ALTER TABLE sales MODIFY sales_id INT AUTO_INCREMENT;
```

```
INSERT INTO sales (city_id, date_id, p_id, total_sales)
```

```
SELECT l.city_id, d.date_id, p.p_id, 5000 + FLOOR(RAND() * 100000)
FROM location l
CROSS JOIN date d
CROSS JOIN product p;
```

```
SELECT * FROM SALES;
```

Output:

sales_id	city_id	date_id	p_id	total_sales
1	CI04	DO1	P01	92594
2	CI04	DO2	P01	46366
3	CI04	DO3	P01	49046
4	CI04	DO4	P01	101134
5	CI03	DO1	P01	53532
6	CI03	DO2	P01	59260
7	CI03	DO3	P01	30704
8	CI03	DO4	P01	70742
9	CI02	DO1	P01	56597
10	CI02	DO2	P01	65760
11	CI02	DO3	P01	54010
12	CI02	DO4	P01	67769
13	CI01	DO1	P01	71815
14	CI01	DO2	P01	50770
15	CI01	DO3	P01	33407
16	CI01	DO4	P01	9725
17	CI04	DO1	P02	43402
18	CI04	DO2	P02	82839
19	CI04	DO3	P02	78986
20	CI04	DO4	P02	41417
21	CI03	DO1	P02	65126
22	CI03	DO2	P02	96380
23	CI03	DO3	P02	81523
24	CI03	DO4	P02	13473
25	CI02	DO1	P02	17797
26	CI02	DO2	P02	43567
27	CI02	DO3	P02	59446
28	CI02	DO4	P02	61529
29	CI01	DO1	P02	24307
30	CI01	DO2	P02	31948
31	CI01	DO3	P02	81819
32	CI01	DO4	P02	8253
33	CI04	DO1	P03	90807
34	CI04	DO2	P03	24278
35	CI04	DO3	P03	43969
36	CI04	DO4	P03	42010
37	CI03	DO1	P03	73145
38	CI03	DO2	P03	34697
39	CI03	DO3	P03	49050
40	CI03	DO4	P03	36160
41	CI02	DO1	P03	28652
42	CI02	DO2	P03	29778
43	CI02	DO3	P03	57934

44	CI02	DO4	P03	95338
45	CI01	DO1	P03	97888
46	CI01	DO2	P03	98427
47	CI01	DO3	P03	93473
48	CI01	DO4	P03	67081
49	CI04	DO1	P04	49989
50	CI04	DO2	P04	43704
51	CI04	DO3	P04	63551
52	CI04	DO4	P04	81643
53	CI03	DO1	P04	12563
54	CI03	DO2	P04	12887
55	CI03	DO3	P04	21744
56	CI03	DO4	P04	65063
57	CI02	DO1	P04	55083
58	CI02	DO2	P04	75224
59	CI02	DO3	P04	5874
60	CI02	DO4	P04	98699
61	CI01	DO1	P04	70871
62	CI01	DO2	P04	53261
63	CI01	DO3	P04	48690
64	CI01	DO4	P04	78667