**Assignment 4 :-** Compose SQL statements to BEGIN a transaction, INSERT a new record into the 'orders' table, COMMIT the transaction, then UPDATE the 'products' table, and ROLLBACK the transaction.

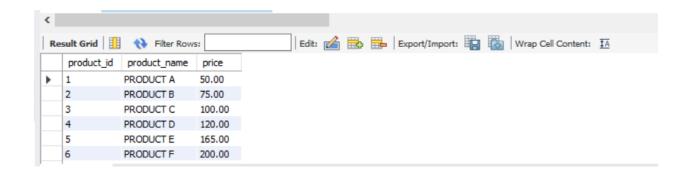
```
Queries:-
create database Service3;
use Service3:
-- Create the customers table
CREATE TABLE customers (
  customer_id INT PRIMARY KEY,
  customer name VARCHAR(100),
  email VARCHAR(100),
  city VARCHAR(50),
  region VARCHAR(50)
);
-- Insert 10 rows of data
INSERT INTO customers (customer id, customer name, email, city,
region) VALUES
(1, 'John Doe', 'john.doe@example.com', 'New York', 'Northeast'),
(2, 'Jane Smith', 'jane.smith@example.com', 'Los Angeles', 'west'),
(3, 'Robert Brown', 'robert.brown@example.com', 'Chicago', 'Midwest'),
(4, 'Emily Davis', 'emily.davis@example.com', 'Houston', 'South'),
(5, 'Michael Wilson', 'michael.wilson@example.com', 'Phoenix','West'),
           'Sarah
                         Johnson'.
                                           'sarah.johnson@example.com',
(6,
'Philadelphia', 'Northeast'),
(7, 'David Lee', 'david.lee@example.com', 'San Antonio', 'South'),
(8, 'Laura Martin', 'laura.martin@example.com', 'San Diego','West'),
(9, 'James White', 'james.white@example.com', 'Dallas', 'South'),
(10, 'Linda Harris', 'linda.harris@example.com', 'San Jose', 'West');
-- Create the orders table
```

CREATE TABLE orders (

```
order_id INT PRIMARY KEY,
  customer id INT,
  order date DATE,
  order_amount DECIMAL(10, 2),
  FOREIGN KEY (customer id) REFERENCES customers(customer id)
);
-- Insert 10 rows of data into the orders table
INSERT INTO orders (order id, customer id, order date, order amount)
VALUES
(1, 1, '2024-01-15', 150.00),
(2, 2, '2024-02-20', 200.00),
(3, 1, '2024-03-25', 300.00),
(4, 3, '2024-04-05', 120.00),
(5, 5, '2024-05-10', 450.00),
(6, 6, '2024-06-15', 250.00),
(7, 4, '2024-07-20', 350.00),
(8, 8, '2024-08-25', 400.00),
(9, 1, '2024-09-30', 500.00),
(10, 7, '2024-10-05', 220.00);
                products(product id
        table
                                          primary
                                                           product name
create
                                     int
                                                    key,
varchar(100), price decimal(10,2));
INSERT INTO products(product id,product name, price) values
(1,'PRODUCT A',50.00),
(2,'PRODUCT B',75.00),
(3,'PRODUCT C',100.00),
(4,'PRODUCT D',120.00),
(5,'PRODUCT E',150.00),
(6,'PRODUCT F',200.00),
(7,'PRODUCT G',250.00),
(8,'PRODUCT H',300.00),
(9,'PRODUCT I',350.00),
(10, 'PRODUCT J', 400.00);
```

- Begin the transactionSTART TRANSACTION;
- -- Insert a new record into the orders table INSERT INTO orders (order\_id, customer\_id, order\_date, order\_amount) VALUES (11, 3, '2024-11-01', 275.00);
- Commit the transaction COMMIT;
- -- Begin the transaction START TRANSACTION;
- -- Update a record in the products table
  UPDATE products
  SET price = price \* 1.1 -- Assuming you are increasing the price by 10%
  WHERE product\_id = 5;

select \* from products
-- Rollback the transaction
ROLLBACK;



0	PRODUCTE	200.00
7	PRODUCT G	250.00
8	PRODUCT H	300.00
9	PRODUCT I	350.00
10	PRODUCT J	400.00
NULL	HULL	NULL