RDBMS FUNDAMENTS

ASSIGNMENT 11:

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.

CREATE TABLE CUSTOMER

```
CREATE TABLE customer (
        cid NUMBER PRIMARY KEY,
        cname VARCHAR(20),
        region VARCHAR(20)
);
```

INSERT VALUES TO CUSTOMER TABLE

```
INSERT INTO customer VALUES(1, ‘DEEPIKA NAIK’, 'North');
INSERT INTO customer VALUES (2, ‘KIRAN NAIK, 'North');
INSERT INTO customer VALUES (3, 'PRIYANKA’, 'South');
INSERT INTO customer VALUES (4, ‘AISHWARYA’, 'East');
INSERT INTO customer VALUES (5, ‘RAHUL’, 'North');
```

DISPLAY CUSTOMER TABLE

```
SELECT * FROM customer;
```

CREATE TABBLE ORDER

```
CREATE TABLE orders (
        oid NUMBER PRIMARY KEY,
        odate DATE,
        ovalue DECIMAL(10,2),
```

```
    cid NUMBER REFERENCES customers(cid)
);
```

INSERT VALUES TO ORDER TABLE

```
INSERT INTO order VALUES(101,'10-JAN-24',100.00,1),
INSERT INTO order VALUES(102,'20-MAR-24',150.00,2),
INSERT INTO order VALUES(103,'1-AUG-24',200.00,1),
INSERT INTO order VALUES(104,'25-JAN-24',50.00,3),
INSERT INTO order VALUES(105,'10-JUNE-24',300.00,4),
INSERT INTO order VALUES(106,'10-JUNE-24',300.00,5),
```

DISPLAY ORDER TABLE

```
SELECT * FROM order;
```

CREATE TABLE PRODUCT

```
CREATE TABLE product(
    pid NUMBER PRIMARY KEY,
    pname VARCHAR(20),
    price NUMBER(10,2)
);
```

INSERT VALUES TO THE PRODUCT TABLE

```
INSERT INTO product VALUES(1,'Product A',50.00);
INSERT INTO product VALUES(2,'Product B',100.00);
INSERT INTO product VALUES(3,'Product C',70.00);
INSERT INTO product VALUES(4,'Product D',300.00);
INSERT INTO product VALUES(5,'Product E',60.00);
```

DISPLAY PRODUCT TABLE

SELECT * FROM product;

INSERT NEW RECORD INTO THE ORDER TABLE

INSERT INTO order VALUES(107,TO_DATE('08-MAY-2024','DD-MM-YYYY'),250.00,5);

COMMIT THE TRANSACTION

COMMIT;

UPDATE THE PRODUCT TABLE

UPDATE product

SET price = price*10

WHERE pid=1;

ROLLBACK THE TRANSACTION

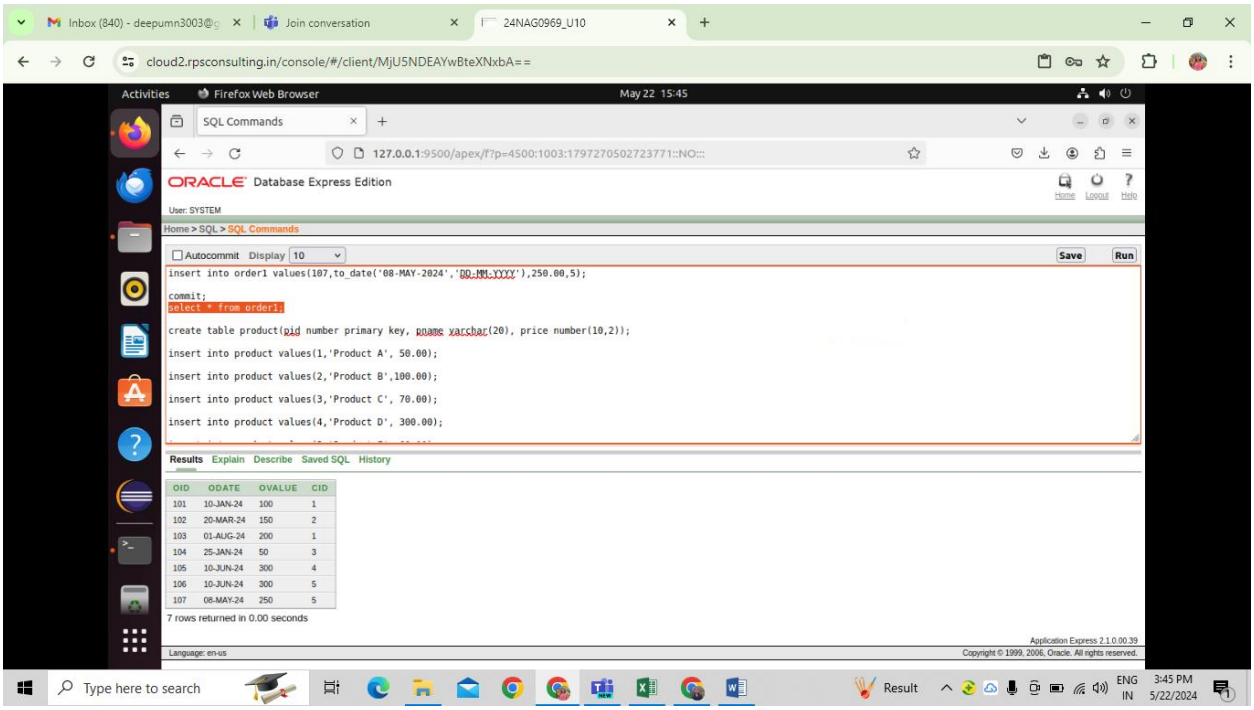
ROLLBACK;

COMMIT : Commits the transaction, making the insert operation permanent.

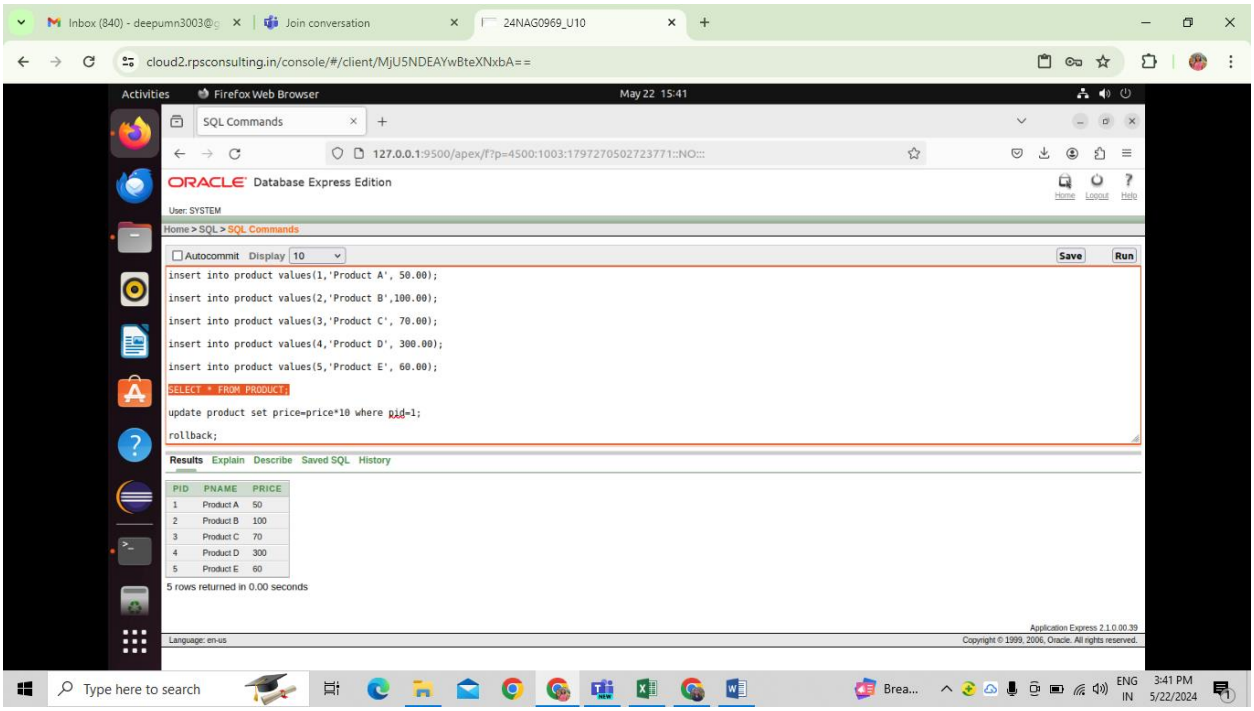
UPDATE : Updates the price of a product with pid=1

ROLLBACK : Rolls back the transaction, undoing the update operation

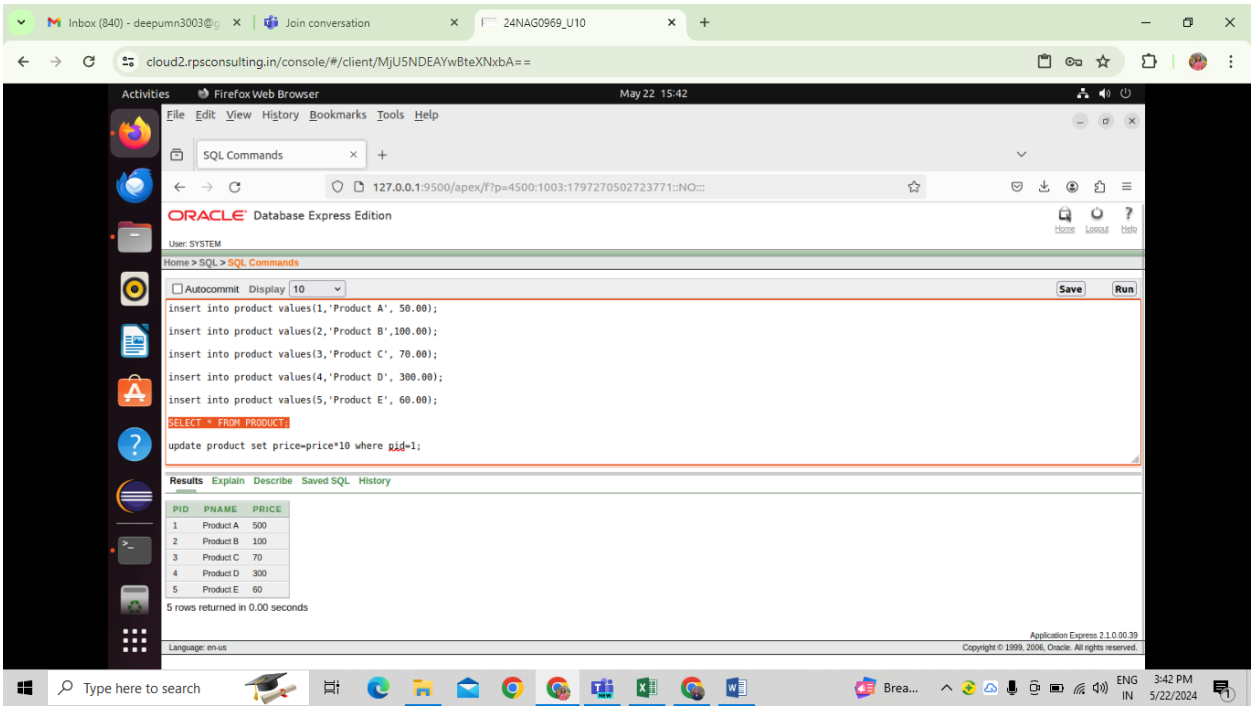
AFTER COMMIT



BEFORE ROLLBACK



AFTER UPDATING THE PRODUCT



AFTER ROLLBACK