## **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

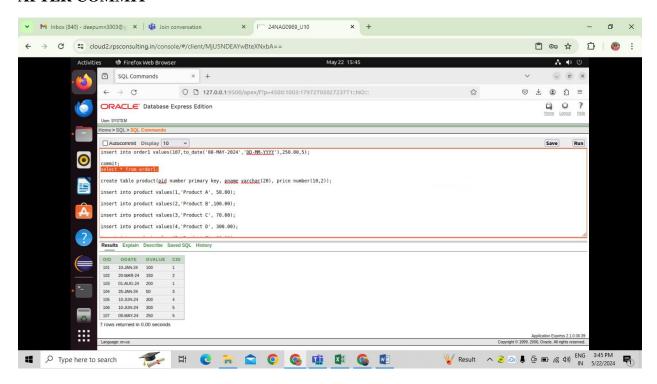
ROLLBACK;

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

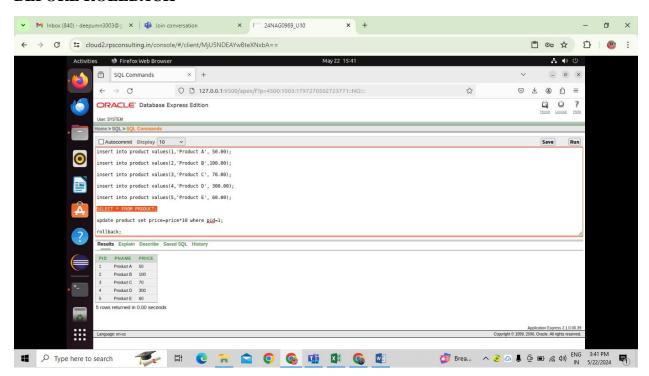
**UPDATE**: Updates the price of a product with pid=1

**ROLLBACK:** Rolls back the transaction, undoing the update operation

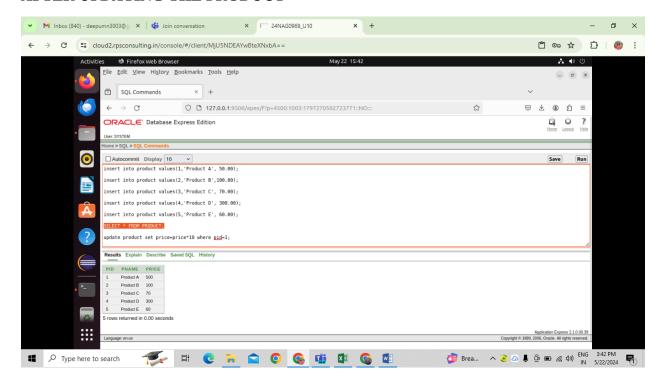
## **AFTER COMMIT**



## BEFORE ROLLBACK



## AFTER UPDATING THE PRODUCT



## AFTER ROLLBACK

