NAME	Snigdha Ghosh
UID	23ICS10004
CLASS	622-A
SUBJECT	ADBMS

Part B: Demonstrate ROLLBACK for Failed Payment Insertion

Part C: Simulate Partial Failure and Ensure Consistent State

Part D: Verify ACID Compliance with Transaction Flow

CODE:

CREATE DATABASE IF NOT EXISTS db_43x3epzm3;

USE db_43x3epzm3;

DROP TABLE IF EXISTS FeePayments;

```
CREATE TABLE FeePayments (
payment_id INT PRIMARY KEY,
student_name VARCHAR(100) NOT NULL,
amount DECIMAL(10,2) CHECK (amount >
0), payment_date DATE
);
START TRANSACTION;
INSERT INTO FeePayments (payment_id, student_name, amount, payment_date)
VALUES
(1, 'Ashish', 5000.00, '2024-06-01'),
(2, 'Smaran', 4500.00, '2024-06-02'),
(3, 'Vaibhav', 5500.00, '2024-06-03');
COMMIT;
SELECT * FROM FeePayments;
START TRANSACTION;
INSERT INTO FeePayments (payment_id, student_name, amount, payment_date)
VALUES (4, 'Kiran', 6000.00, '2024-06-04');
INSERT INTO FeePayments (payment_id, student_name, amount, payment_date)
VALUES (1, 'Ashish', -500.00, '2024-06-05');
ROLLBACK;
```

```
SELECT * FROM FeePayments;
START TRANSACTION;
INSERT INTO FeePayments (payment_id, student_name, amount, payment_date)
VALUES (5, 'Rahul', 4000.00, '2024-06-06');
INSERT INTO FeePayments (payment_id, student_name, amount, payment_date)
VALUES (6, NULL, 3000.00, '2024-06-07');
ROLLBACK;
SELECT * FROM FeePayments;
START TRANSACTION;
INSERT INTO FeePayments (payment_id, student_name, amount, payment_date)
VALUES (7, 'Ankit', 5000.00, '2024-06-08');
COMMIT;
SELECT * FROM FeePayments;
```







