

<b>NAME</b>	<b>Avinash</b>
<b>UID</b>	<b>23BCS13252</b>
<b>CLASS</b>	<b>622-A</b>
<b>SUBJECT</b>	<b>ADBMS</b>

**Part A: Insert Multiple Fee Payments in a Transaction**

**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;**

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MySQL - db\_43x3epzm3

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Tables

- departments
- employees
- feepayments
- leaves
- salaries
- Functions
- GetAverageSalaryOfDepartment
- Procedures
- ApproveOrRejectLeave

```
1 CREATE DATABASE IF NOT EXISTS db_43x3epzm3;
2 USE db_43x3epzm3;
3
4 DROP TABLE IF EXISTS FeePayments;
5
6 CREATE TABLE FeePayments (
7     payment_id INT PRIMARY KEY,
8     student_name VARCHAR(100) NOT NULL,
9     amount DECIMAL(10,2) CHECK (amount > 0),
10    payment_date DATE
11);
12
13 START TRANSACTION;
14
15 INSERT INTO FeePayments (payment_id, student_name, amount, payment_date)
16 VALUES
17 (1, 'Ashish', 5000.00, '2024-06-01'),
18 (2, 'Smaran', 4500.00, '2024-06-02'),
19 (3, 'Vaibhav', 5500.00, '2024-06-03');
20
21 COMMIT;
22
23 SELECT * FROM FeePayments;
24
```

payment_id	student_name	amount	payment_date
1	Ashish	5000.00	2024-06-01T00:00:00.000Z
2	Smaran	4500.00	2024-06-02T00:00:00.000Z

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6 CREATE TABLE FeePayments (
7     payment_id INT PRIMARY KEY,
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payment_id	student_name	amount	payment_date
1	Ashish	5000.00	2024-06-01T00:00:00.000Z
2	Smaran	4500.00	2024-06-02T00:00:00.000Z
3	Vaibhav	5500.00	2024-06-03T00:00:00.000Z

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14 INSERT INTO FeePayments (payment\_id, student\_name, amount, payment\_date)  
15 VALUES (6, NULL, 3000.00, '2024-06-07');  
16  
17 ROLLBACK;  
18  
19 SELECT \* FROM FeePayments;  
20  
21 USE db\_43x3epzm3;

payment_id	student_name	amount	payment_date
1	Ashish	5000.00	2024-06-01T00:00:00.000Z
2	Smaran	4500.00	2024-06-02T00:00:00.000Z
3	Vaibhav	5500.00	2024-06-03T00:00:00.000Z
8	Rohan	7000.00	2024-06-09T00:00:00.000Z
9	Neha	6500.00	2024-06-10T00:00:00.000Z

RAHUL KUMAR

ENG IN

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