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| **NAME** | **RAHUL KUMAR** |
| **UID** | **23BCS13346** |
| **CLASS** | **622-B** |
| **SUBJECT** | **ADBMS** |

**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;**

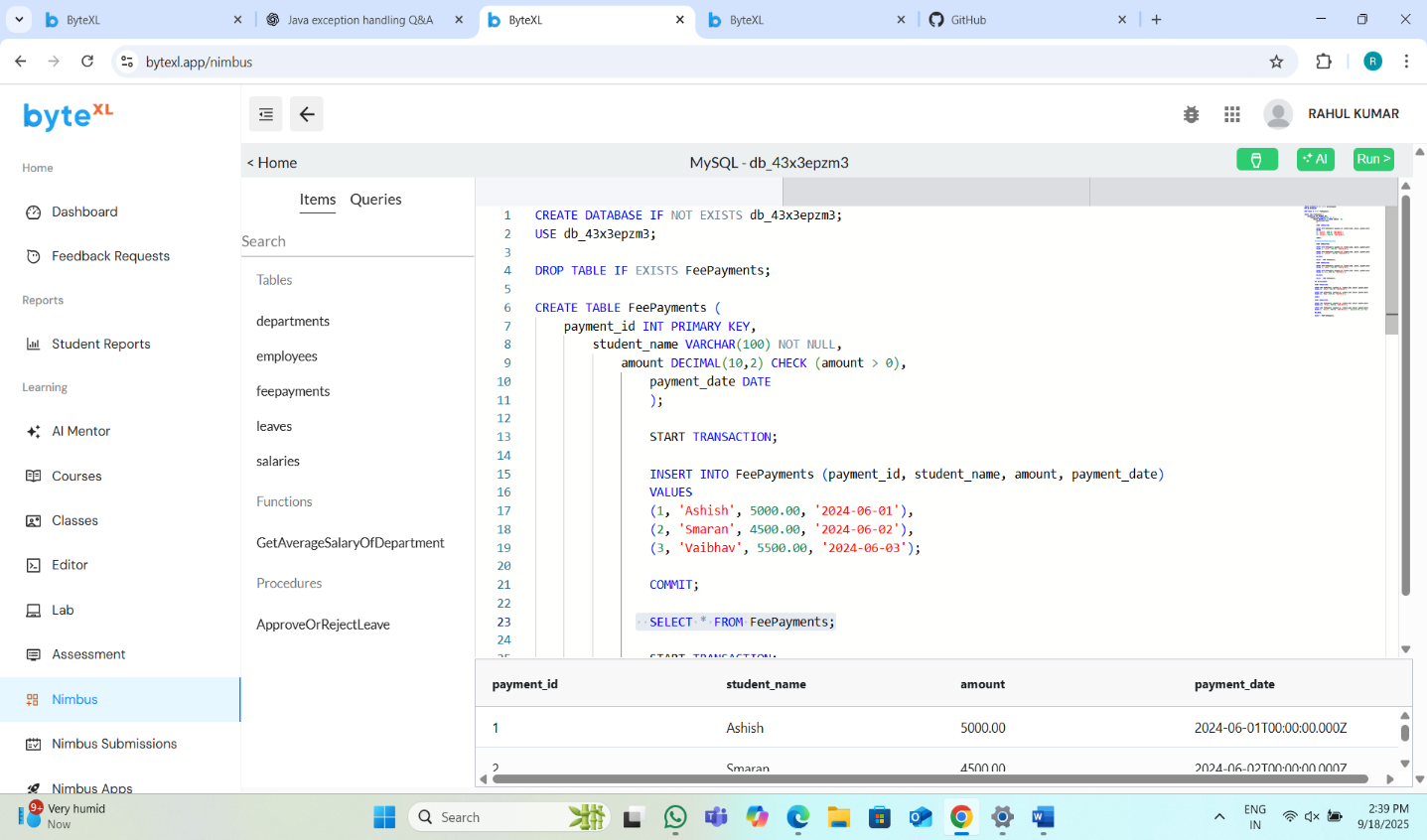
**START TRANSACTION;**

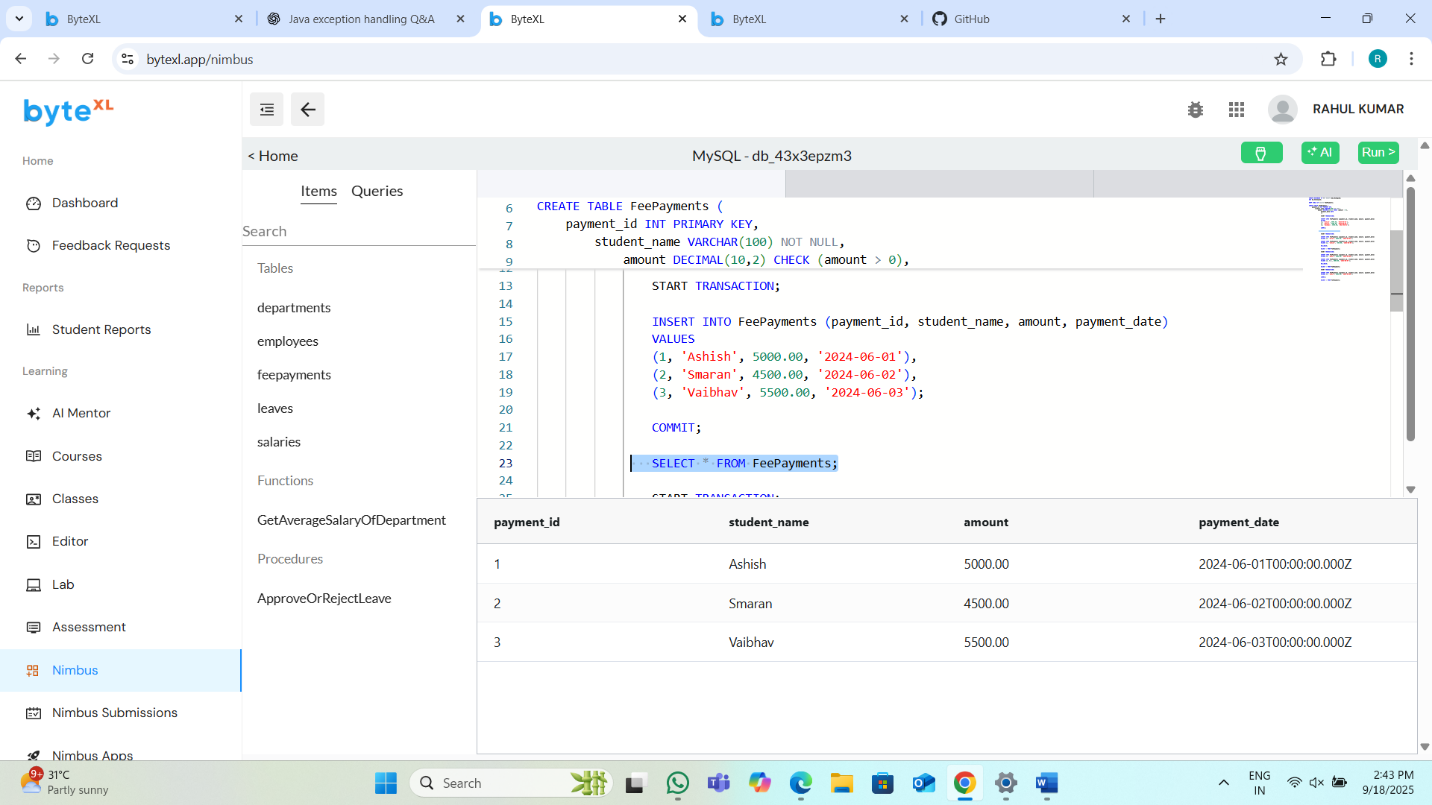
**INSERT INTO FeePayments (payment\_id, student\_name, amount, payment\_date)**

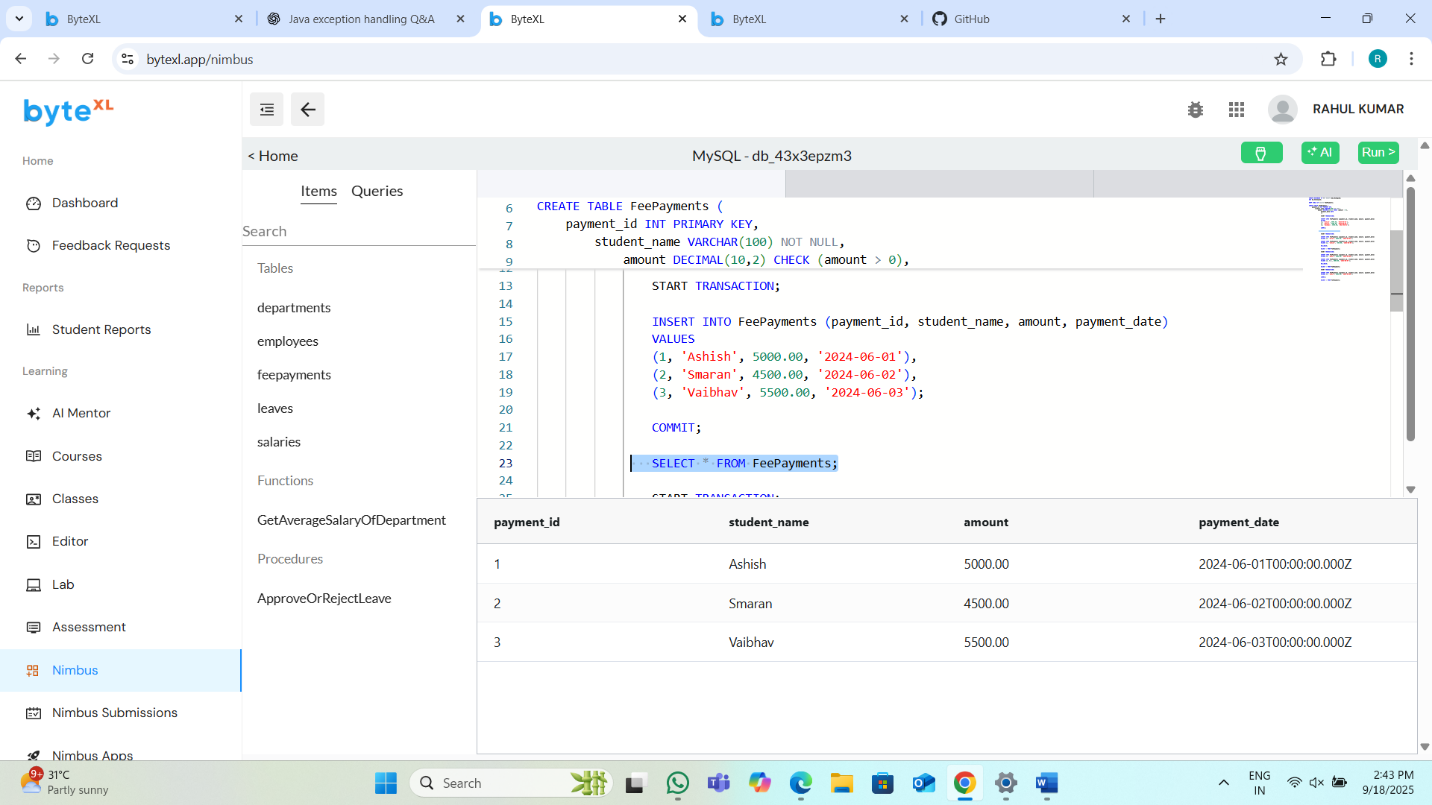
**VALUES (7, 'Ankit', 5000.00, '2024-06-08');**

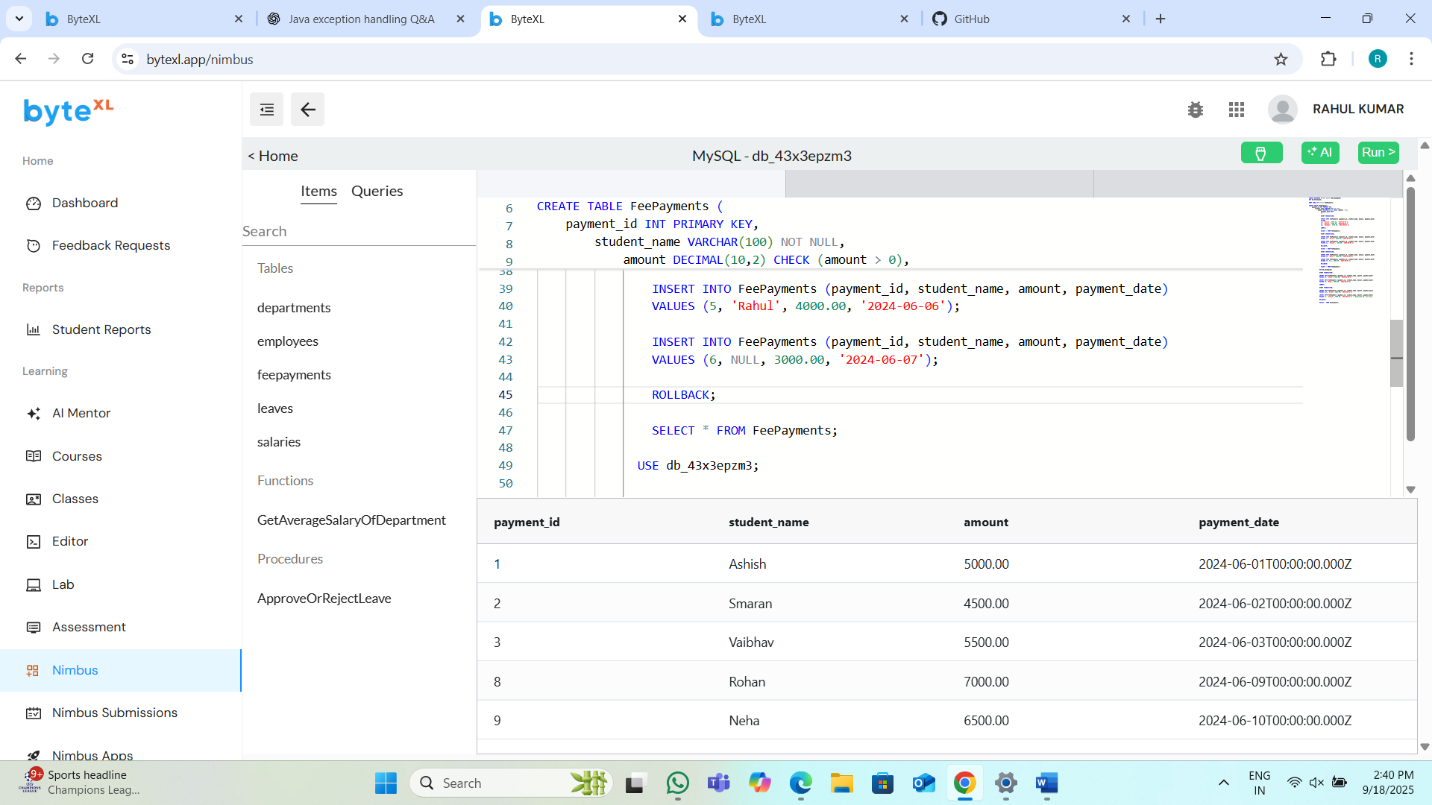
**COMMIT;**

**SELECT \* FROM FeePayments;**

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