***Assignment 5:*** *Begin a transaction, perform a series of INSERTs into 'orders', setting a SAVEPOINT after each, rollback to the second SAVEPOINT, and COMMIT the overall transaction.*

***SQL statements:***

*-- Begin transaction*

*BEGIN TRANSACTION;*

*-- Insert order 1*

*INSERT INTO orders (order\_id, customer\_id, order\_date, order\_total)*

*VALUES (105, 1, '2024-10-13', 1000);*

*-- Set SAVEPOINT 1*

*SAVEPOINT sp1;*

*-- Insert order 2*

*INSERT INTO orders (order\_id, customer\_id, order\_date, order\_total)*

*VALUES (106, 2, '2024-10-14', 1200);*

*-- Set SAVEPOINT 2*

*SAVEPOINT sp2;*

*-- Insert order 3*

*INSERT INTO orders (order\_id, customer\_id, order\_date, order\_total)*

*VALUES (107, 3, '2024-10-15', 1500);*

*-- Rollback to SAVEPOINT 2*

*ROLLBACK TO sp2;*

*-- COMMIT transaction*

*COMMIT;*

***Explanation:***

*Begins a transaction.*

*Inserts three orders with SAVEPOINTS after each.*

*Rolls back to SAVEPOINT 2, undoing the third insert.*

*Commits the transaction, making the first two inserts permanent.*

***Example Use Case:***

***Suppose we have the following orders table:***

***order\_id customer\_id order\_date order\_total***

*101 1 2022-01-01 500*

*102 2 2022-01-15 1200*

***After Transaction:***

***order\_id customer\_id order\_date order\_total***

*101 1 2022-01-01 500*

*102 2 2022-01-15 1200*

*105 1 2024-10-13 1000*

*106 2 2024-10-14 1200*