

### 3. Commands of Rollback and Commit :

1. Create Teacher table with the following fields (Id,Name, DeptNo, Date of joining, DeptName, Location, Salary)

```
CREATE TABLE Teacher (  
    Id INT PRIMARY KEY,  
    Name VARCHAR(50),  
    DeptNo INT,  
    DateOfJoining DATE,  
    DeptName VARCHAR(50),  
    Location VARCHAR(50),  
    Salary DECIMAL(10, 2)  
);
```

### 2. Insert five records

```
INSERT INTO Teacher (Id, Name, DeptNo, DateOfJoining, DeptName,  
Location, Salary)
```

```
VALUES
```

```
(1, 'John Doe', 101, '2020-01-15', 'Mathematics', 'New York', 55000),  
(2, 'Jane Smith', 102, '2018-05-22', 'Physics', 'London', 62000),  
(3, 'Michael Johnson', 101, '2022-09-03', 'Mathematics', 'Chicago', 58000),  
(4, 'Emily Brown', 103, '2019-11-12', 'Chemistry', 'Los Angeles', 60000),
```

(5, 'David Lee', 102, '2021-03-28', 'Physics', 'Toronto', 65000);

### 3. Give Increment of 25% salary for Mathematics Department.

UPDATE Teacher SET Salary = Salary \* 1.25 WHERE DeptName = 'Mathematics';

OUTPUT:

<b>Id</b>	<b>Name</b>	<b>DeptNo</b>	<b>DateOfJoining</b>	<b>DeptName</b>	<b>Location</b>	<b>Salary</b>
1	John Doe	101	2020-01-15	Mathematics	New York	68750
3	Michael Johnson	101	2022-09-03	Mathematics	Chicago	72500

### 4. Perform Rollback command

ROLLBACK;

OUTPUT:

<b>Id</b>	<b>Name</b>	<b>DeptNo</b>	<b>DateOfJoining</b>	<b>DeptName</b>	<b>Location</b>	<b>Salary</b>
1	John Doe	101	2020-01-15	Mathematics	New York	55000
2	Jane Smith	102	2018-05-22	Physics	London	62000
3	Michael Johnson	101	2022-09-03	Mathematics	Chicago	58000
4	Emily Brown	103	2019-11-12	Chemistry	Los Angeles	60000
5	David Lee	102	2021-03-28	Physics	Toronto	65000

### 5. Give Increment of 15% salary for Commerce Department

UPDATE Teacher SET Salary = Salary \* 1.15 WHERE DeptName = 'Commerce';

OUTPUT:

<b>Id</b>	<b>Name</b>	<b>DeptNo</b>	<b>DateOfJoining</b>	<b>DeptName</b>	<b>Location</b>	<b>Salary</b>
1	John Doe	101	2020-01-15	Mathematics	New York	55000
2	Jane Smith	102	2018-05-22	Physics	London	62000
3	Michael Johnson	101	2022-09-03	Mathematics	Chicago	58000

<b>Id</b>	<b>Name</b>	<b>DeptNo</b>	<b>DateOfJoining</b>	<b>DeptName</b>	<b>Location</b>	<b>Salary</b>
4	Emily Brown	103	2019-11-12	Chemistry	Los Angeles	60000
5	David Lee	102	2021-03-28	Physics	Toronto	65000

## 6. Perform commit command

COMMIT;

OUTPUT:

<b>Id</b>	<b>Name</b>	<b>DeptNo</b>	<b>DateOfJoining</b>	<b>DeptName</b>	<b>Location</b>	<b>Salary</b>
1	John Doe	101	2020-01-15	Mathematics	New York	55000
2	Jane Smith	102	2018-05-22	Physics	London	62000
3	Michael Johnson	101	2022-09-03	Mathematics	Chicago	58000
4	Emily Brown	103	2019-11-12	Chemistry	Los Angeles	60000
5	David Lee	102	2021-03-28	Physics	Toronto	65000