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Transaction Control Language(TCL) commands are used to manage transactions in the [database](https://www.studytonight.com/dbms/overview-of-dbms.php).

COMMIT command is used to permanently save any transaction into the database.

COMMIT;

ROLLBACK This command restores the database to last commited state. It is also used with SAVEPOINT command to jump to a savepoint in an ongoing transaction.

ROLLBACK TO savepoint\_name;

SAVEPOINT command is used to temporarily save a transaction so that you can rollback to that point whenever required.

SAVEPOINT savepoint\_name;

INSERT INTO class VALUES(5, 'Rahul');

COMMIT;

UPDATE class SET name = 'Abhijit' WHERE id = '5';

SAVEPOINT A;

INSERT INTO class VALUES(6, 'Chris');

SAVEPOINT B;

INSERT INTO class VALUES(7, 'Bravo');

SAVEPOINT C;

SELECT \* FROM class;

The resultant table will look like,

|  |  |
| --- | --- |
| **Id** | **name** |
| 1 | Abhi |
| 2 | Adam |
| 4 | Alex |
| 5 | Abhijit |
| 6 | Chris |
| 7 | Bravo |

Now let's use the ROLLBACK command to roll back the state of data to the **savepoint B**.

ROLLBACK TO B;

SELECT \* FROM class;

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Now our **class** table will look like,

|  |  |
| --- | --- |
| **id** | **name** |
| 1 | Abhi |
| 2 | Adam |
| 4 | Alex |
| 5 | Abhijit |
| 6 | Chris |

Now let's again use the ROLLBACK command to roll back the state of data to the **savepoint A**

ROLLBACK TO A;

SELECT \* FROM class;

Copy

Now the table will look like,

|  |  |
| --- | --- |
| **id** | **name** |
| 1 | Abhi |
| 2 | Adam |
| 4 | Alex |
| 5 | Abhijit |

Commit, Rollback and Savepoint SQL commands