### TCL command

Transaction Control Language(TCL) commands are used to manage transactions in database.These are used to manage the changes made by DML statements. It also allows statements to be grouped together into logical transactions.

#### Commit command

Commit command is used to permanently save any transaaction into database.

Following is Commit command's syntax,

***commit***;

#### Rollback command

This command restores the database to last commited state. It is also use with savepoint command to jump to a savepoint in a transaction.

Following is Rollback command's syntax,

**rollback** to *savepoint-name*;

#### Savepoint command

**savepoint** command is used to temporarily save a transaction so that you can rollback to that point whenever necessary.

Following is savepoint command's syntax,

**savepoint***savepoint-name*;

#### Example of Savepoint and Rollback

Following is the **class** table,

|  |  |
| --- | --- |
| ID | NAME |
| 1 | abhi |
| 2 | adam |
| 4 | alex |

Lets use some SQL queries on the above table and see the results.

INSERT into class values(5,'Rahul');

commit;

begin

UPDATE class set name='abhijit' where id='5';

savepoint A;

end;

begin

INSERT into class values(6,'Chris');

savepoint B**;**

**end;**

**begin**

INSERT into class values(7,'Bravo');

savepoint C;

end;

SELECT \* from class;

The resultant table will look like,

|  |  |
| --- | --- |
| ID | NAME |
| 1 | abhi |
| 2 | adam |
| 4 | alex |
| 5 | abhijit |
| 6 | chris |
| 7 | bravo |

Now **rollback** to **savepoint B**

rollback to B;

SELECT \* from class;

The resultant table will look like

|  |  |
| --- | --- |
| ID | NAME |
| 1 | abhi |
| 2 | adam |
| 4 | alex |
| 5 | abhijit |
| 6 | chris |

Now **rollback** to **savepoint A**

rollback to A;

SELECT \* from class;

The result table will look like

|  |  |
| --- | --- |
| ID | NAME |
| 1 | abhi |
| 2 | adam |
| 4 | alex |
| 5 | abhijit |