**TCL Commands:**

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TCL ==> Transaction Control Language Commands

-> Three TCL commands:

 1) Commit

 2) rollback

 3) savepoint

1) commit:

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-> When we want to store the DML commands operations into the database permanently, we can use "commit".

Syntax:

 commit;

2) rollback:

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-> rollback ==> undo

-> When we want to delete the recent action (insert or update) we can use "rollback".

-> to perform the rollback, the commit is not required.

If we can perform the rollback operation after commit, rollback cannot work.

So, before the commit only rollback need to perform.

Syntax:

 rollback;

Ex: for practice:

create table employeeTableData(

id number(4),

name varchar(30)

);

desc employeeTableData;

show user;

insert into employeeTableData values(1,'Kishore');

insert into employeeTableData values(2,'Krishna');

insert into employeeTableData values(3,'Teja');

insert into employeeTableData values(4,'Raja');

commit;

select \* from employeeTableData;

rollback;

select \* from employeeTableData;

insert into employeeTableData values(5,'Satya');

rollback;

select \* from employeeTableData;

insert into employeeTableData values(5,'Satya');

select \* from employeeTableData;

rollback;

select \* from employeeTableData;

3) savepoint:

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-> When we want to mark certain group of actions with one name, we can use "savepoint".

Ex: IRCTC

 user logged in

 from: Hyderabad

 to: Delhi

 date: 21-03-2025

 no.of tickets: 1

 booked the ticket

Scenario:

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Assume, there is a table "employeeTableData"

 insert 2 more records into the data

 after that, create a savepoint for this insertion

Syntax:

 savepoint <save-point-name>;

-> When we want to commit or rollback with group of actions then we can se "savepoint".

select \* from employeeTableData;

insert into employeeTableData values(5,'satya');

insert into employeeTableData values(6,'sravani');

savepoint insertedData;

select \* from employeeTableData;

rollback;

select \* from employeeTableData;

insert into employeeTableData values(5,'satya');

select \* from employeeTableData;

savepoint insData;

select \* from employeeTableData;

rollback insdata;

select \* from employeeTableData;

insert into employeeTableData values(5,'satya');

insert into employeeTableData values(6,'sravani');

select \* from employeeTableData;

savepoint insDatainfo;

update employeeTableData set id = 121 where id = 1;

update employeeTableData set id = 122 where id = 2;

savepoint updateData;

select \* from employeeTableData;

rollback insDatainfo;

select \* from employeeTableData;

rollback