

(iii) select (name, class, Roll_no) from student.

DCL (Data control language) :- DCL Command
 are used to
DB (provider) control the security on database. It
 deal with various permissions which are
 given to the user to access the
 database. Such permission are known
 as privileges is the right to run
 the particular datatype in database.

→ There are two type of privileges.

1. System privileges (permissions)
2. Object privileges.

→ The DCL command include The following commands :

* Grant command :- To allow specified user to perform specified task.

Syntax :-

GRANT [obj privilege] ON object
 TO [User-Name] role/public [with grant options];

For example - (i) write a command to grant update privilege on student table to user BSc.

GRANT update ON student

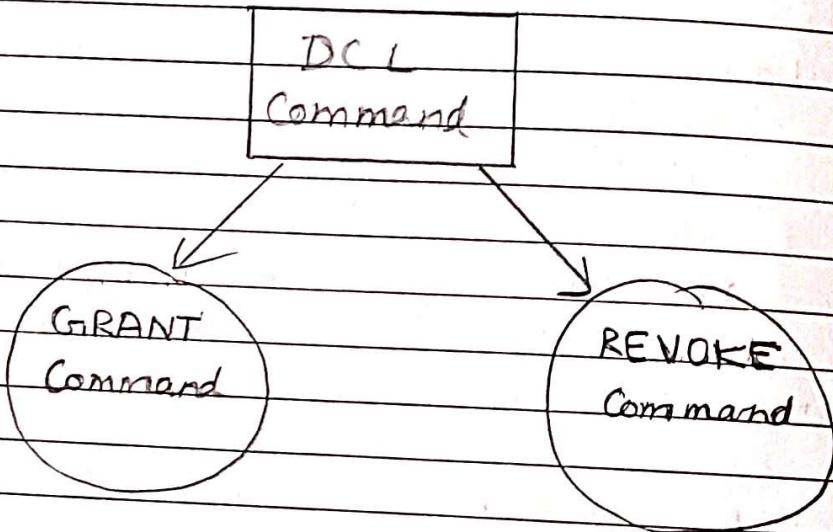
To BSc;

(iii) write a command to grant a privilege ~~insert~~
delete on student table to user BSC

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GRANT ~~insert, delete~~ ON student
TO BSC;

(iii) To grant all the object privilege to user admin.
GRANT all ON student
TO admin;



* Revoke Command :- To cancel or remove previously granted or denied permission.

Syntax :-

REVOKE [obj privileges] ON object
FROM User Name;

for eg (i) revoke , select and update privilege
on employee table from user BSC.

REVOKE Select, update ON employee
FROM BSC;

(ii) Revoke all the privileges or permission on student table from user BSc

REVOKE ALL ON Student
FROM BSc;

- # TCL is * Transaction control language.
- * it is used to manage different transaction occurring with database. Transaction are collection of operation that form a single logical unit of work is called transaction.
- * There are different types of command under TCL some of following are -

- commit
- Rollback
- Savepoint

- * Commit command is used for successfully "complete".
- * The commit command save all the changes made to the database since the last commit in Oracle. Change made to the database are not permanent until you tell the oracle to make it permanent. The commit command make permanent changes during current change execution of transaction.

for example:-

	roll-no	Name	Class	Student
				←

SQL > Insert Into student
values (101, 'ABC', 'BSC');

SQL > Insert Into student
values (102, 'BCD', 'BSC');

, SQL > Commit;

SQL > Select * from student

	Roll No	Name	Class	
	101	ABC	BSC	← Student
	102	BCD	BSC	

SQL > delete from student where Roll no=101;

SQL > Commit;

SQL > Select * from student;

ROLL NO	NAME	CLASS	
102	BCD	BSC	← Student

* Roll back command & It is inverse of commit statement. It undo some or all data changes made during the current transaction.

This command is used to undo the transaction that have not already been saved to the database.

* It only be use to undo the transaction for eg E

SQL > Insert Into student
values (101, 'ABC', 'BSC');

SQL > Insert Into Student
values (102, 'BCD', 'RSC');

SQL > delete from student where RollNo = 101;
SQL > rollback;

* Savepoint Command :- It is a special marker inside the transaction that allows all commands that are executed after a ~~begin~~ established to be rollback. Resuming the transaction state to what it was at the time of the savepoint

Syntax :- SAVEPOINT Savepoint_Name ;
ROLLBACK to Savepoint_Name;

for ex:-

SQL > Insert Into Student
values (101, 'ABC', 'BSC');

SQL > Insert Into Student
values (102, 'BCD', 'BSC');

SQL > SAVEPOINT savept;

SQL > delete from student where RollNo = 101;

SQL > rollback to savept;

Creating a table from another table :- User can also create a table from an existing table by copying the existing table columns. The select command is used to copy the data from old table.

Syntax :- create table Table-Name

As (Select * from OldTable-Name);