DDL-Data Definition Language

DDL is used to construct an object in the database and deals with the Structure of the Object

DDL commands are auto committed.

1. CREATE:

" IT IS USED TO BUILD / CONSTRUCT AN OBJECT ".

How to Create a Table:

- Name of the table. (Tables cannot have same names)
- Number of Columns.
- Names of the columns.
- Assign datatypes for the Columns.
- Assign Constraints [NOT MANDATORY]

Syntax to create a table:

Example:

```
Create table Customer(
Cid int primary key,
Cname varchar(10),
contact int not null,
Address varchar(15) default 'Pune'
);
Create table Product (
pid int primary key,
pname varchar(20),
price decimal(7,3) check(price>0),
cid int,
Constraint cid fk Foreign key(cid) references Customer(cid)
);
CREATE TABLE DEPARTMENTS (
DEPARTMENT ID DECIMAL PRIMARY KEY,
DEPARTMENT NAME VARCHAR(30) NOT NULL,
LOCATION ID VARCHAR(20),
FOREIGN KEY (LOCATION_ID) REFERENCES LOCATIONS(LOCATION_ID)
);
```

NOTE:

To Describe the table:

Syntax: **DESC Table_Name**;

2. Rename:

"IT IS USED TO CHANGE EXISTING NAME OF AN OBJECT."

Syntax to rename a table:

RENAME TABLE TABLE_NAME **TO** NEW_NAME;

Example:

RENAME TABLE Customer TO cust;

3. Alter:

"IT IS USED TO MODIFY THE STRUCTURE OF THE TABLE."

1. Syntax to add a column:

ALTER TABLE Table Name ADD Column Name Datatype Constraint type;

EXAMPLE:

ALTER TABLE customer ADD email varchar(20) not null;

2. Syntax to Remove a column:

ALTER TABLE Table_Name DROP COLUMN Column_Name;

Example:

ALTER TABLE customer DROP COLUMN email;

3. Syntax to Rename a column:

ALTER TABLE Table_name **RENAME COLUMN** Column_Name **TO** New_name

Example:

ALTER TABLE customer RENAME COLUMN location TO address;

4. Syntax to modify datatype

ALTER TABLE Table name **MODIFY** Column name new datatype;

Example:

ALTER TABLE customer MODIFY mail varchar(20);

4. Drop:

" IT IS USED TO REMOVE THE TABLE FROM THE DATABASE "

Syntax To Drop a Table:

DROP TABLE Table_name;

EXAMPLE:

DROP TABLE Customer;

5. Truncate:

" IT IS USED TO REMOVE ALL THE RECORDS FROM THE TABLE PREMANENTLY "

Syntax To Truncate a Table:

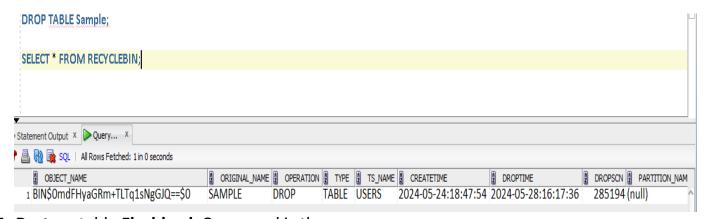
TRUNCATE TABLE TABLE_NAME;

Example:

TRUNCATE TABLE Customer;

NOTE:

In Oracle Database drop objects are get stored in recyclebin;



To **Restore** table **Flashback** Command is there

Example: FLASHBACK TABLE Sample to before drop;

To Drop table permanently use 'PURGE' Example: DROP TABLE SAMPLE PURGE;