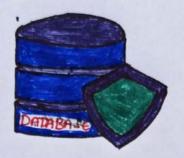
SOL SHORT MOTES!



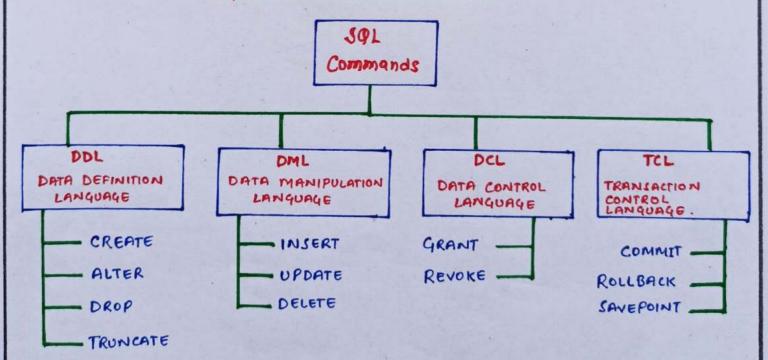
PART-1

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What is SQL?

- · SqL is stand for structured query language.
- · This darabase language is mainly designed for maintaining the data relational darabase management systems.
- · SqL is standard language for accessing and manipulating database.

Types of sal commands:



DDL COMMANDS:

- DOL (Data Definition Language) used to change the structure of the table like creating the table, altering the table & Deleting the table.
- · All the commands in the DDL are auro Committed that means it permanently saves all the changes in the darabase.

1. CREATE:

this command is used to create a new database or table.

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Syntax:

CREATE TABLE toble_ name (

Column 1 dararype,

columns daratype,

cerumis amaigre

);

Example:

CREATE TABLE Employee

Employee 10 Int, FirstName varchar (255), LastName varchar (255), AddressLine Varchar (255),

city Varchar (255)

);

2. Alter

The ALTER TABLE statements in structured Query language allow to add, modify, and delete columns of an existing table.

Syntax:
ALTER TABLE table-name
ADD COLUMN_name daratype

Example:

ALTER TABLE Employee

ADD Email Varchar (255);

3. DROP

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The DROP Table statement is used to drop an existing table in a database. this command deletes both the Structure & Records stored in table.

Syntax: DROP TABLE table_name;

Example: DROP TABLE Employee

4. TRUNCATE

A truncate SQL Starement is used to remove all rows (complete dara) from a table. It is similar to DELETE statement with no where clause.

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Syntax:
TRUNCATE TABLE table-name;

Example:

TRUNCATE TABLE Employee;

DML COMMANDS:

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1. INSERT

SQL INSERT statement is a SQL query. It is used to insert a single or a multiple records in a table.

Syntax:
INSERT INTO table_name
Values (value 1, value 2, value 3...);

Example:

INSERT INTO STUDENTS (ROIL_NO, NAME, AGE, CITY)
VALUES (1, Yadnyesh, 19, PUNE);

2. UPDATE

The UPDATE Statement is used to modify the existing records in a table.

Syntax:

UPDATE table-name

SET column 1 = Value 1, column 2 = Value 2,

INMERE Condition;

Continue -

Example: UPDATE CUSTOMERS

SET contactName = 'yadu', city = 'Pune'

IMMERE CUSTOMERID = 101;

3. DELETE

The DELETE statement is used to delete existing records in a table.

Synrax:

DELETE FROM table - name [WHERE condition];

Example:

DELETE FROM CYSTOMERS WHERE CUSTOMERNAME = 'Yadu";

DCL COMMANDS:

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1. GRANT

It is used to give user access privileges to a database.

Syntax:

GRANT SELECT, UPDATE ON MY_TABLETO: SOME_USER, ANOTHER_USER;

2. REVOKE

This command withdraws the user's access privileges given by using the GRANT command.

GRANT SELECT, UPDATE ON MY_TABLE TO SOME_USER, ANOSMER_USER;

SYNTOX: REVOKE SELECT, UPDATE ON MY_ TABLE FROM USER 1, USER 2;

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5.

TCL COMMANDS

1. COMMIT

Commit a Transaction. The COMMIT Command Saves all the transactions to the database since the last Commit or ROLLBACK Command.

Syntax: COMMIT;

Example: DELETE FROM STUDENT WHERE AGE = 20; COMMIT;

2. ROLL BACK

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If any error occurs with any of the SQL grouped statements, all changes need to be abouted. The process of reversing changes is called rollback.

Syntax: ROLLBACK;

Example:

DELETE FROM Student WHERE AGE = 20; ROLLBACK;