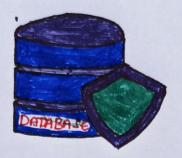
# SOL SHORT MOTES!



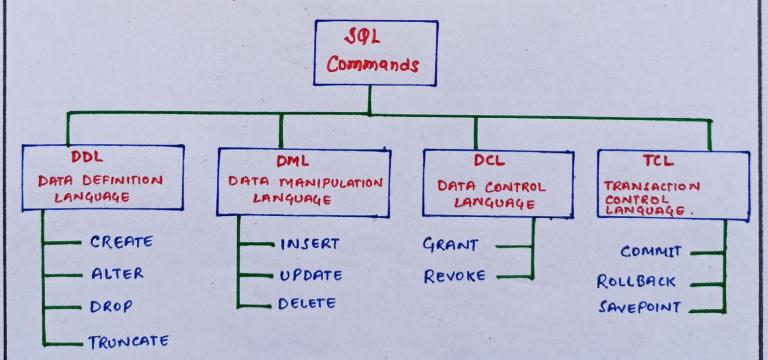
PART-1

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#### What is SQL?

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

## Types of SQL Commands:



## DDL COMMANDS:

- DOL (Dara 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.

Syntax:

CREATE TABLE table\_name (
Column1 dararype,
column2 dararype,
column3 dararype,

);

Example:

CREATE TABLE Employee

Employee 10 Int,
First Name varchar (255),
Last Name varchar (255),
Address Line Varchar (255),
City Varchar (255)

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## 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.

Continue ---

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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 Cuspomers

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

INMERE CustomerID = 101;

#### 3. DELETE

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

Syntax:
DELETE FROM table\_name [WHERE condition];

Example:

DELETE PROM CYSTOMERS WHERE CUSTOMERNAME = 'Yadu";

## DCL COMMANDS:

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### 1. GRANT

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

SYMMAX:

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, ANOTHER\_USER;

SYNTOX: REVOKE SELECT, UPDATE ON MY\_ TABLE FROM USER! 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;