# 59L SHORT NOTES

- · What 15 5012
- · 581 is stand for structured query language
- · This database language is mainly designed for maintaining the data relational database management systems
- · 801 is standard language for accessing and manipulating database.
  - · Types of 591 commands

commands

DD/			DML	DCL	TCL.
Data Definition I		Do	nta Manipulation	Data Control	Transaction
Languago			Language	Language	Control
	Create		Insert	Grante	COMMIT
Alter		11-1-1-	Revoke	ROLLBACK	
Drop		-> Update			
Truncale			Delete		Savepoint «

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# · DDL COMMANDS

· DDL (Data Definition Language) used to change the structure of the table like creating the table altering the table and deleting the table.

· All the commands in the DDL are auto committed that means it permanently saves all the changes in the database

1. CREATE

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

Syntax:

column 1 datatype,

column 3 datatype,

column 3 datatype,

Example:

CREATE TABLE Employee

Employee ID int,

First Name varchar (255),

Last Name varchar (255),

Add ressline varchar (255),

Cityvarchar (255) krishna Agrawa (LinkedIn)

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# 2. Alter

The Alter table statements in structured query language allows to add modify and delete columns of an existing table.

· Syntax:

ALTER TABLE table name ADD Column name datatype

Example:

ALTER TABLE Employee
ADD Email varchar (255);

## 3. DROP

- The DROP table statement is used to drop an existing table in a database this command deletes both the structures and Records stored in table.
- · Syntax : DROP TABLE table name;
- · Example: DROP TABLE Employee

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## 4. TRUNCATE

· A truncate 581 statement is used to remove all rows (complete data) from a table. It is similar to DFIETE statement with no WHERE clause.

· Syntax: TRUNCATE TABLE table name;

· Example: TRUNCATE TABLE Employee:

# · DML Commands

#### 1. INSERT

· 5 GL INSERT statement is a 5 GL query. It is used to insert a single or a multiple records in a table.

Syntax- INSERT INTO table name values (value1, value2, value 3 -- );

Example - INSERT INTO STUDENTS (ROLL NO, NAME, AGE, CITY) VALUES (1, Yadryesh, 19, PUNE);

#### 2. UPDATE

· The UPDATE statement is used to modify existing records in a table.

krishna Agrawal (LinkedIn) Ocoders\_notes (instagram) Syntax: UPDATE table name

SET column1 = value 1, column2 =

Value 2 --
WHERE Condition;

Example: UPDATE CUSTOMERS

SET contactName = 'yadu', city='pune'
WHERE CustomerID = (0);

#### 3. DELETE

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

Syntax: DELETE TROM table name [ where condition];

Example: DELETE FROM CUSTOMERS WHERE customer Name = "yadu";

# DCL COMMANDS

#### 1. GRANT

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

Syntax- GRANT SFLECT, UPDATE ON MY TABLE
TO SOME USER, ANOTHER USER;

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#### 2. REVOKE

· This command withdraws the user's GRANT command.

GRANT SELECT, UPDATE ON MY TABLE TO SOME USER, ANOTHER USER;

SYNTAX: REVOKESELECT, UPDATE ON MY TABLE FROM USER1, USER2;

# ·TCL Commands

#### 1. COMMIT

· Commit a Transaction. The COMMIT command saves all the transactions to the database Since the last COMMIT OF ROLLBACK command

Syntax: COMMIT ... Example: DELETE FROM student WHERE AGE = 20;

#### 2. ROLLBACK

The any error occurs with any of the sol grouped statements, all changes need to be aborted. The process of reversing changes 15 called rollback Krishna Agrawal (Linked In)

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Syntax: ROLLBACK; Example: DELETE FROM student WHERE AGE = 20; ROLLBACK; Rrishna Agrawal (linkedIn)
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