# Types of SQL commands

DDL

## **Data Definition Language**

It's used for create and modify the DB structure and its objects. Commands are CREATE, DROP, ALTER, TRUNCATE and RENAME

DML

## **Data Manipulation Language**

It's used inserting, updating and deleting data in a DB, so we have INSERT, UPDATE and DELETE

**DCL** 

## **Data Control Language**

It's used for create and modify the DB structure and its objects.

Commands are CREATE, DROP, ALTER, TRUNCATE and RENAME

**TCL** 

### **Transaction Control Language**

It's used for handling the transaction, its commands are COMMIT and ROLLBACK



#### CREATE

It's used for creating a database or a table

**CREATE** DATABASE <databaseName>;

```
CREATE TABLE <tableName> (
col1 datatype,
...
colN datatype
)
```



## **CREATE EXAMPLE**

```
CREATE DATABASE dbTest;

CREATE TABLE employee (
    ID number(18,0),
    FIRST_NAME varchar(50),
    LAST_NAME varchar(50)
);
```



**DROP** 

It's used for dropping a database or a table

**DROP** DATABASE <databaseName>;

**DROP** TABLE <tableName>;



## DROP EXAMPLE

**DROP** DATABASE dbTest;

**DROP** TABLE employee;







#### **ALTER EXAMPLE**

```
ALTER TABLE employee ADD (
BIRTH_DATE date,
BIRTH_COUNTRY varchar(50)
);
```

**ALTER** TABLE employee **MODIFY** LAST\_NAME varchar(100);

we can always increase the dimension of a column, but can't decrease it



### **ALTER EXAMPLE**

```
ALTER TABLE employee DROP (
BIRTH_DATE,
BIRTH_COUNTRY
);
```



#### TRUNCATE

It's used for removing a table content, while keeping the structure. Performing a select right after will show no records in the table.

**TRUNCATE** TABLE <tableName>;

Same result of **DELETE FROM** TABLE <tableName>; but TRUNCATE is faster



## TRUNCATE EXAMPLE

# **TRUNCATE** TABLE employee;



#### **RENAME**

Used to change the name of an existing table, depending on the RDBMS.

**RENAME** TABLE <tableName> TO <newTableName>;
ALTER TABLE <tableName> **RENAME** TO <newTableName>;



#### **RENAME EXAMPLE**

ALTER TABLE employee **RENAME** TO employees;



## Let's connect

If you want to learn more about the topic, connect or send me a DM.



