# Get Started SQL DEVELOPER

# **Classification of SQL**

**Data Definition Language** 

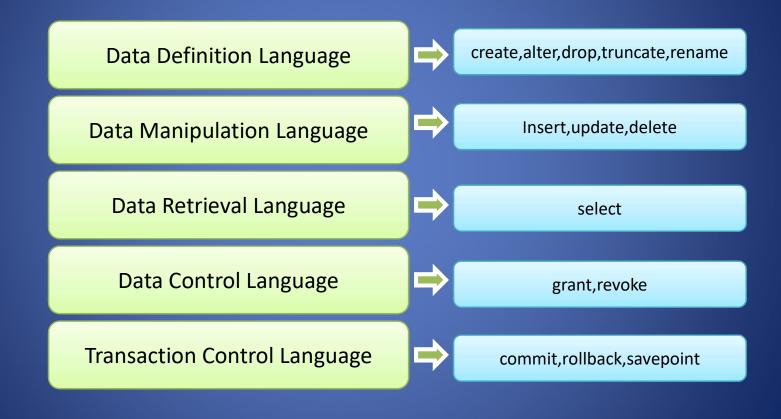
Data Manipulation Language

Data Retrieval Language

**Data Control Language** 

**Transaction Control Language** 

# **Classification of SQL**



# **Database Tables**

A database most often contains one or more tables. Each table is identified by a name (e.g. "Students" ").

Tables contain records (rows) with data.



	\$ COLUMN_NAME	DATA_TYPE	♦ NULLABLE	DATA_DE
1	NO	NUMBER(2,0)	Yes	(null)
2	NAME	VARCHAR2(10 BYTE)	Yes	(null)

# **SQL Data Types**

Each column in a database table is required to have a name and a data type.

An SQL developer must decide what type of data that will be stored inside each column when creating a table.

The data type is a guideline for SQL to understand what type of data is expected inside of each column, and it also identifies how SQL will interact with the stored data.

# **Oracle Datatypes**

# https://docs.oracle.com/cd/A58617 01/server.804/a58241/ch5.htm

### Character data types

- o CHAR
- o NCHAR
- o VARCHAR2 and VARCHAR
- o NVARCHAR2
- o CLOB
- NCLOB
- o LONG

### NUMBER datatype

### DATE datatype

### Binary datatypes

- BLOB
- BFILE
- RAW
- LONG RAW

# <u>Creating Table</u>

# **CREATE TABLE SYNTAX**

Create table (col1 datatype1, col2 datatype2 ...coln datatypen); Ex: SQL> create table student (no number (2), name varchar (10), marks number (3));

### **INSERT**

INSERT This will be used to insert the records into table. We have two methods to insert.

- ➤ By value method
- ➤ By address method

# **INSERT**

### a) <u>USING VALUE METHOD</u>

Syntax: insert into <table\_name) values (value1, value2, value3 .... Valuen);

Ex:

```
SQL> insert into student values (1, 'sudha', 100);
SQL> insert into student values (2, 'saketh', 200);
```

To insert a new record again you have to type entire insert command, if there are lot of records this will be difficult.

This will be avoided by using address method

### **INSERT**

### b) USING ADDRESS METHOD

Syntax:

insert into <table\_name) values (&col1, &col2, &col3 .... &coln);
This will prompt you for the values but for every insert you have to use forward slash.

SQL> insert into insert into student values (&no, '&name', &marks);

Enter value for no: 1

Enter value for name: Jagan Enter value for marks: 300

old 1: insert into student values(&no, '&name', &marks)

new 1: insert into student values(1, 'Jagan', 300)

# **INSERT**

c) INSERTING DATA INTO SPECIFIED COLUMNS USING VALUE METHOD

```
Syntax:
    insert into <table_name)(col1, col2, ... Coln) values (value1, value2, .... Valuen);

Ex:
    SQL> insert into student (no, name) values (3, 'Ramesh');
    SQL> insert into student (no, name) values (4, 'Madhu');
```