## SQL ( Structured Duay Language)

=) SQL:

It is a database completer language designed for managing data and communicate with database (RDBMS)

2) It is proposed by worald chamberlin and Raymond Boyce in 1970's at IBM.

of Initially It is called SEQUEL (structured English Dueuge Language).

## Note:

RDBMS: is a Relational database is a type of database that stoles and provides accen to data points that are related to

-1 What sql do:

of Execute queies aganist a database of retrieve data, can issue Prosent data, update data etc.

\* Commands &

1. DOL (Data defination Language):

The DDL manages tables and its structure.

Main 2- DROP

3. ALTER

4. TRUNCATE

5. RENAME

1. CREATE: - create a table in database

Symbol CREATE TABLE TABLENAME (COLUMN\_NAME DATATYPES [...]); Eg: CREATE TABLE EMPLOYEE (Name Varchar (20), Email Varchar (20).

it is used to delete the table (both stoudere and recorded stored DROP TABLE TABLE NAME, Egi- DROP TABLE Employee; It is used to modify the characteristics of an Existing attribute or probably to add a new attribute.

Note's In sqr attributes are called columns.

now are called tuples. 3. ALTER:-Syntax: ) To add new column:

ALTER TABLE table name ADD column name cowmn - defination. Eg: ALTER TABLE EMPLOYEE ADD (ADDRESS Varchar (20)); 2) To and modify existing column: syntax? ALTER TABLE Tablename MODIFY (column definition). Eg: ALTER TABLE EMPLOYY MODIFY (Name Varchar (30)); 3) To renaming a Existing columns Gynlap! ALTER TABLE Table name RENAME old column name to new column name; Eg: ALTER TABLE Employee RENAME NAME to First Name; y) dropping a column; syntan: ALTER TABLE table name DEOP column-name; Ej. ALTER TABLE Employee DEOP Address; an add constraints in commands for alter. Eg: ALTER TARLE Table name Modify column-name datatype NoT NOLL;

4- Truncale: It is used to dele all records from table. It does not delete table.

Syntan: TRUNCATE TABLE table-name; Si- TRUNCATE TABLE EMPLOYEE;

= delete statement without where clause also delete, Note: all the records but not efficient than touncate. Tourcale is faster than delete. Toruncate is also only used for complete deletion of all records not partial records.

## 5. RENAME :

It is used to penaming table names.

RENAME TABLE Old-table-Name to newtable name;

SJ'- PENAME TABLE EMPLOYEE TO EMP;

## -X DML (pala Manipulation Language):

It deals with manipulation of data present in the database we can insert data, delete particular data. retrieve data. so update data in this.

- Commands: 1. SELECT Refrieve data from the database
  - 2. INSERT insut data into a table
  - 3. UppATE update the Existing data within a table.
  - 4. DELETE delete yerords from tables.

1) SELECT :-SELECT column-named, column-namez... FROM toble-name WHERE Londition; Eg) - SELECT customer-id, sale-data FROM Lustomers; (d) SELECT \* From customers; (Il displays all). SELECT Age from customers WHERE Age ≥ 20;

2.) UppAE:-

synlat: uppare table\_name SET colun\_name-1 = Value 1, ... WHERE Londinion', 9- UPDATE customers SET store-state = 'DL' WHERE store-state = 'NY';

3. DELETE:

symbol: DELETE FROM table-hane where Condition; Egi- DELETE FROM unshomers where shore-shake = 'MH' AND customer\_id= 1001';

syntax: - INSERT INTO table-Name (column-name-1, ...) 4. INSTERT; VALUES (value 1, ...); SJ= INSERT INTO unstomers (unstomer\_id, order\_id) MLUES ( 1005, 1007);

\* DEL (Data Control Language):-It is used to control the accessing privileges, in watabase a user needs privileges. Hose are of 2 types. 1):- system: This includes permissions for creating session. tables etc. all types of other system posivileges. Object: This includes permissions for any command or query to perfolm any operation on the database tables. DCL have 2 commands, [ [m] 1. Grant 2. Keroke \* Grant: used to provide any usel access privileges or other privileges for the database \* Revoke: used to take back permissions from any usel. school bar update: not put table name Syntaxi- GRANT privilege name on Objectname Eg: GIRANT SELECT, UPDATE ON EmployEES TO Bhanu; REVOKE?

REVOKE;

Syman's REVOKE privilege\_name on objectname from usel;

Ipublic robrame

Eg: REVOKE SELECT, UPDATE ON EmployEES FROM Ram;

Tel: (Transactional control Language)

delabase.

I- commit:

This command is used to make a transaction permanent
in a database:

Syntax:- commit;

2. ROLLBACK:

- This command is used to restore the database to its original date since the last command that was committed.

Synlaw: ROLLBACK;

we an use Rollback with savepoint.

Cynlast KOLBACK TO Esavepoint name;

Sg: ROLLBACK TO A;

3. savepoint:This commond is used to save the transaction
temporarily. So the users can rollback to the
required point of the transaction.

Symlant SAVEPOINT savepoint\_harme,