information by Storing 1 retrieving and managing data.

There are many databases available live my sal, sybase, ovacle, mongo DB, informix post sal, sal server etc...

DBMS: Dutabase Management System:

A Database Management System
is a Software System that is designed
be manage and organized data in a
Structured manner. It allows user to
create modify and query a database.
as well as manager the Security
and access controls for that database

* SQL Stands for structured Query Larguage. * SQL let's you access and maripulate

What is SQL?

databases.

ASQL become a standard of the American nutional standards
Institude (ANSI) in 1986, and of the International Organization for standardization (105) in 1987

What can SQL do?

** SQL can execute queries against a database.

** SQL can retrieve data from a database

* Sal can insert records in a data * Sal can update records in a data base. * SOIL can delete records from a database * sal can create new database *Sal can create new tables in a database & Sal can create stored procedures in a database * Sal can create views in a datobase * Sal can set permissions on table; procedures and views. Database Larguage in DBMS! A DBMs has appropriate larguage and interfaces to express database queries and updates. Database larguage can be used to read store and update the data in the database. Types of Database, Language: DBMS Language DOL DOL DINL FICE

DOL: Data Definition Language: It is used to define database Structure or patern. It is used to create tables, schema, indexes, constraints in the database. using the DDL Statements, you can the skeleton of the create database.

15 DDL (Data Definition Language): To make / perform changes to the physical structure of any babie residing inside a dalabase, DOL used DOL is a subset of SOL and a part of DBMS (DataBase Management System) DDL consist of commands to commands like (CREATE, ALTER, TRUNCATE and DROP. These commands are used to create or modify the tables in HTML. DOL commands: In this, Section, we will cover the following DDL commands as follows: (1) create (2) Alter (3) Truncate 4) drop (5) Rename This command is used to create CREATE! a new table in SQL. The user has to give information like table name, column rames and their datatypes Syntax: CREATE TABLE TABLE -NAME column-1 dalatype, column-2 datatype, column-3 datatype.) the miles subject the

CREATE TABLE student-info

(college-Id number(e);
college-name varchar(30);
Branch varchar((0);
);

COMMAND-2,

ALTER: This command is used to add, delete or change columns in the exiting table. The user needs to know to exiting table rame and can do add, delete or modify tasks easily.

syntax:

syntax to add a column to an exiting table.

alter table table name ADD (column-name datatype);

Ex!

ALTER TABLE Student-into ADD COIPA number:

COMMAND - 3!

TRUNCATE!

This command is used to remove all rows from the bable, but the structure of the bable still exists Syntax: Syntax to remove an existing bable: TRUNCATE TABLE Coble-name, TRUNCATE TABLE Student-info;

COMMAND-4:

DIOP:

This command is used to remove our existing table along with its Structure from the Dalabase.

Syrtax:

Syntax to drop on existing table paper;

BROP TABLE student-info;

COMMOND - 5.

RENAME:

It is possible to charge rame of table with or without data in it using simple RENAME command: We can remove any table object at any print of time.

Syntra:

RENAME GABLE LIGHE named to Knew-Table-names;

Ex:

Employee TO Emp; RENAME TABLE

DML commands in SQL:

DML is an abbreviation of cala Manipulation Language

The DML commands in structured allowing Language change the data fresent in the SOLL database. We present in the SOL database. We can easily occess. Store, modify, update can easily occess. Store, modify, update and delete the existing records and delete the existing records from the database using DML commands.

The four main one commands in SOLL:

- (1) select command
- (2) Insert Command (2) Update command
- (4) pelete command.

Select onl command.

The select command shows the records of the specified table.

It also shows the particular record of a particular column by using the 'WAERE' cause.

Syntax

Select of from lable name; select columname, column name 2 from lable name;

select & from table-rame whose column rame = value;

select column ruma, column rume, from bablerome when commonne when Example: Stame select # from student, Select & from student when snow; sno srame select snows from student; sno snome select smisrame from student where Sno = 1; sno sname Insect ONL commands: Insect is another important cata Maripulation command in structured Querry Larguage, which allows werst to insert data in database

(column rame), column ramez ...); insert into student values (1,1x',1p'); Update DML commands: update is another most important data manipulation command in Structured Query Language, which allows users to update or modify the existing data in database tables Synbax! update bable-name set (column-name): Value_1, column_name N= value_N) where Condition; Here 'update', 'set', and 'where' are the SQL Keywords and 'Table-name' is the name of the table whose values you want to update. ev. Sno Result Sname Tob Pass 90 pass 90 fail 90

insert into tablerame values

tables!

Syntax:

update Student set result . 'pass' where sno 3; Update Student Set tot. 90 whom "Result = 'pass';

Delete DML commands!

Delete is a DML command which allows sal users to remove single or multiple existing records from the database tables.

We use the where cause with the Delete Command to select specific rows from the bable.

Syntox:

Delete from table-name where condition; Delete from 'table-rame;

pelete from Student; Delet from student where sno=3;

Define Table: A database table is a structure that organizes data into rows and columns form a grid. Tables are similar to a worksheet. The you run horizontally and represent each record. The column Yun vertically and represent a Specific field. Define Gilid The yours and columns interset, form in a greid. Inter section of the rows and columns defined each cell in the table. The header cell of a column west usually displayed the name of the column Define Record: The boom record in DBMs reject to a collection of items or data Organized within a table (or) A set of fields related to a Particular topic Objects in a database can have one or more values are called Records one then stored in tables, the tables determine the data

that each record may contain,

Define Field:

A dalabase fields refers to a set of values arranged in a table and has the same datalype.

A field is also known as a

column or Attribute.

Setting a key:

Define key:

A key refers to an attribute
a set of attributes that help
us identity a row (or tuple) unquely
in a table (or relation).

key contains or nothing but the rules that are to be followed while entering data into columns of the dotabase bable. Constraints or nothing but the rules that are to be followed while entering data into columns of the database table.

We have 5 types of key constraints: NOT NULL:

Ensures that the specified column doesn't contain a null