DATA BASE MANAGEMENT SYSTEM

Data Base Objects

Table or entity

View

Store Procedure

Functions & Triggers

What is table?

A real word entity is called table.

Ex: - Student, Staff.

RDBMS

Table = Entity

Column = Attribute

Row = Touple

Data Type

1. Bit (0 or 1)
2. Tinyint (0 to 255) 1 byte of memory
3. Smallint 2bytes of memory
4. Int 4 byte of memory
5. BigInt 8 bytes of memory

For Decimal Values

1. Float 17 precisions 4 to 13 bytes
2. Decimal
3. Numeric (5,3) out of 5 we have 3 decimal digits ( 12345.123)
4. Marks (5,2)
5. Money for salary come with the prefix currency symbol. $1233453435.342

For Character Values

11.Char ‘A’, ‘B’ 1 byte

12. char(20) it will accept up to 20 characters

For Alpha Numeric Character

13. varchar any single character

14. varchar(100) up to 100 characters

15. text it will be more 8000 character in 8KB of each files (clob)

16. varchar(max) it also up to 8000 characters

We can store data in our local language

17. nchar Each character will occupy 2 bytes

18. ntext

19.nvarchar(100)

Data Datatypes

20. Date mm/dd/yyyy

21. DateTime mm/dd/year hh:mm:ss:ms

22. Time hh:mm:ss:ms

23. smalldateTime

24. Timestamp

25. BInaryData(Image)

Commends classified int 4 types

DDL (Data definition Language)

Create, Alter, Drop

DML (Data Manipulation Language)

Insert, update, Delete

DCL (Data Control Language)

Grant, Denay, revoke

DQL (Data Query Language)

Select

How to Create DataBase?

Create DataBase JAVATRAING;

Use JavaTraining;

How to drop DataBase?

Drop DataBase JavaTraining;

create database JavaTraining

use JavaTraining;

drop database JavaTraining;

Create Table Employee(

Id Int,

Name Varchar(30),

Department Varchar(30),

DOD date,

DOJ date,

salary money);

insert into employee values(1,'HART','Computer Science','01/01/1996','04/04/2021',50000);

insert into employee values(2,'Pallavi','BA','01/01/1993','04/04/2023',6000),

(1,'Sathy','Engg','01/01/1990','04/04/2019',80000);

insert into employee values(4,'ART','Information Science',null,'04/04/2021',null);

insert into Employee(id,Name,salary) values(5,'Nazia',10000.12);

select \* from Employee;

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