Day 3

# SQL Datatypes:

A datatype is used to specify the type of data that is stored

in the column.

SQL supports several data types for storing different types

of data such as numbers,text,date,images,audio,video etc

1)Number Data type

2)Char & varchar2 data type

3)date & Timestamp data type

4)Blob data type

1)Number Data type

It is used to store numbers of any type such as whole number,

fractional number,+ve &-ve number

syntax--> number(P,S)

where P- precision( total number of digit)

S - scale( number of digit after decimal point)

230.56 --> number(5,2)

1345.651 -->number(7,3)

4000 --> number(4,0) -->number(4)

0.234 ---> number(3,3)

Ex-

>create table employ200

(salary number(4));

>insert into employ200 values(2000);

Ex- if i want to store 2500.3 (fractional value)

>create table employ201

(salary number(5,1));

>insert into employ201 values(2500.3);

2) Char & Varchar2 Data type

It is used to store string/character data.

ex-student\_name,address

>create table employ205

(salary number(5,1),

name1 varchar2(5),

name2 char(5)

);

#Char data type allows maximum 2000 characters or bytes of

data.

-if column size is not given,default size of 1 is given.

-if less number of characters are entered, then blank space is filled

So its waste of storage..

Thats why it is used to store fixed character data

ex-->Pan,aadhar,driving liscence

#Varchar2 data type allows to store 4000 bytes /characters

-No default size.

-Space is consumed for entered characters only. So no waste

of storage.

Thats why it is used to store variable length character data.

ex-- names of person,address,email id etc

3)Date & timestamp Data type

This data types is used to store both date and time.

It represent date in DD-MON-YY format(default Date

format of oracle Database)

ex-11-FEB-23

>create table employ205

(name varchar2(10),

birth\_date date);

>insert into employ205 values('karan','10-JAN-23');

>select name,to\_char(birth\_date,'DD-MONTH-YYYY') from employ205;

>select name,birth\_date,to\_char(birth\_date,'Q') from employ205;

#current\_date

>select current\_date from employ205;