use NewDb

select \* from emp

select empname + address from emp

-- char means no. of bytes that we mention

-- will be allocated (fixed size)

-- varchar means no. of bytes that we mention

-- will be the max charcters that we

-- can store. but memory will be allocated

-- dependong upon the input size

-- (variable size)

alter table emp

alter column empname varchar(20)

insert into emp values(11,'Hari',12000, 'Delhi')

select \* from emp

int 2 bytes 16 bits > 65536

-32000 to + 32000

short int > 8 bits > 256

long int > 32 bits >

alter table emp add age tinyint

insert into emp values(13, 'Deepak',9000,'Delhi', 255)

create table student(rn int , name varchar(20),

DateOfBirth Date)

insert into student values

(1,'Ajay','12/10/2000'),

(2,'Ajay','08/11/2005'),

(3,'Ajay','06/09/2006'),

(4,'Ajay','12/12/2008')

select \* from student

Constraints

1. Primary Key
2. Not null
3. Default
4. Check
5. Unique
6. Foreign key

-- constraints

-- you want to apply some restriction on the

-- values that we can enter in the coulmn

-- Primary key

-- NO NULLS ALLOWED

-- NO DUPLICACY

-- Constraints can be applied while making table

-- or after table is created

-- Adding constraints while making table

use newdb

create table student (

rn int primary key,

name varchar(20) not null,

manager varchar(20) unique,

address varchar(30),

marks int check(marks between 0 and 100),

course varchar(10) check (course IN ('C','C++','C#')),

batch char(4) default 'B001' check (len(batch)=4))

insert into student values(2,'Ajay',

'Gagan', 'Delhi',78,'C','B002')

insert into student values(3,'Ajay',

'Gagandeep', 'Delhi',90,'C++','B081')

select \* from student

insert into student(rn,name) values(4,'Ajay')

insert into student(rn,name,manager)

values(5,'Vijay','Kapil')

Constraints with names

create table student1 (

rn int constraint pk\_rn primary key,

name varchar(20) not null,

manager varchar(20) constraint uq\_name unique,

address varchar(30),

marks int constraint ck\_marks check(marks between 0 and 100),

course varchar(10) constraint ck\_course check (course IN ('C','C++','C#')),

batch char(4) constraint df default 'B001'

constraint ch\_batch check (len(batch)=4))

-- How do we remove constraint

alter table student1 drop constraint df

-- Add contsraint on the table

alter table student1

add constraint cklen check(len(address) < 30)

Function : Which perform some task

Functions cud be inbuilt / user defined

Inbuilt functions

Functions cud be string functions , numeric functions , date functions . general function

String functions

-- string functions

select len('Ajay Sood')

select upper('Ajay sood')

select lower('Ajay sood')

select left('Ajay Sood', 2)

select right('Ajay Sood', 2)

select substring('Ajay Sood', 2,3)

select rtrim('Ajay Sood ')

select len('Ajay Sood ')

select len(ltrim(' Ajay Sood '))

select name , upper(name) As "Name In Upper Case

", lower(name) As "Name In Lower Case",

left(name,2) , len(name) from student

select abs(-8)

--select mod(10,2)

select GetDate()

select day(GetDate())

select month(GetDate())