-- DDL

-- create alter drop truncate table

-- DML

-- insert delete update select

-- DQL

-- Select

--DCL

-- Grant Revoke

-- TCL

-- commit rollback

-- Create table student

name

rn

marks

batchCode

address

DOB

----------------------------------------------------------------

-- DDL

create database FirstDB

use FirstDb

-- DDL

create table student (

rn int,

name varchar(20),

marks int,

batchCode char(4),

address varchar(50),

dob datetime)

insert into student values (1,'Ajay',12,'B001','A-90 Bombay','12/12/2002')

select \* from student

insert into student(name) values (null)

insert into student values(2,null,90,'B003','B67 Delhi','11/10/2001')

insert into student(rn,batchCode,marks,address,dob)

values(3,'B003',23,'B67 Delhi','11/10/2001')

select \* from student where name IS NULL

select \* from student where name IS NOT NULL

alter table student add course varchar(20)

alter table student drop column course

alter table student add course varchar(20) default 'C#'

alter table student drop constraint DF\_\_student\_\_course\_\_5CD6CB2B

alter table student add course varchar(20) default 'C#' with values

alter table student alter column name varchar(30)

Functions : Used to perform some specific task

Functions cud be

System Defined / User Defined

System Defined

Numeric , String , DateTime , General

use student

select upper('this is my book of C#')

select lower('this is my book of C#')

select left('this is my book of C#',3)

select right('this is my book of C#',10)

select substring('this is my book of C#',3,5)

select charindex('a','Thia is my book')

select power(10,2)

select abs(-9)

select GetDate()

select convert(varchar , getDate(), 1)

select convert(varchar , getDate(), 2)

select convert(varchar , getDate(), 3)

select convert(varchar , getDate(), 4)

select getdate()

select month(getdate())

select Datename(M,GetDate())

select Datename(D,GetDate())

select name , month(DOB) from student

select name , DateName(M,DOB) from student

select name , DATEDIFf(year, DOB , GetDate()) from STUDENT

<https://www.mssqltips.com/sqlservertip/1145/date-and-time-conversions-using-sql-server/>

select \* from student

alter table student add constraint PK primary key (rn)

delete from student where rn = 1 or rn is NULL

delete from student where rn IN(1,NULL)

insert into student (name) values(null)

delete from student where rn is NULL

alter table student alter column rn int not null

alter table student add constraint batchCons

check (batchCode IN('B001','B002','B003'))

alter table student add constraint DOBCons

check (year(DOB)>20)

select year(dob) from student

--Foreign Keys

select \* from student

insert into STUDENT values

(4,'Ajay',89,'B002','D 90','12/12/2010','VB'),

(1,'Jay',67,'B001','D 90 Calcutta','09/12/2009','VB.Net')

create table fees (rn int references student(rn) , fees int)

select \* from student

select \* from fees

insert into fees values(1, 9000)

insert into fees values(3, 9000)

delete from student where rn = 3

alter table fees drop constraint FK\_\_fees\_\_rn\_\_628FA481

alter table fees add constraint FK foreign key (rn) references student (rn) on delete set null

alter table fees drop constraint FK

alter table fees add constraint FK foreign key (rn) references student (rn) on delete cascade