**STORED PROCEDURE**

create procedure PROC\_DT

AS

BEGIN

select \* from DLithe\_Trainees where TID < 4 ;

END

exec PROC\_DT

--ALTER SP

alter procedure PROC\_DT

AS

BEGIN

select \* from DLithe\_Trainees where TID < 4 and

TADDRESS='Bangalore';

END

exec Proc\_dt

--DROP SP

drop procedure Proc\_dt

--SP with Input parameters

create procedure PROC\_DT(@TADDRESS varchar(50)) --@TADDRESS-Tablevariable

as

BEGIN

Select \* from DLithe\_Trainees where TADDRESS=@TADDRESS

END

exec PROC\_DT @TADDRESS='Bihar'

--SP with Output Parameters

create procedure PROC\_DT1(@TID int output)

as

BEGIN

select @TID=max(TID) from DLithe\_Trainees

END

Declare @TID int

exec PROC\_DT1 @TID OUTPUT

**FUNCTIONS**

--user defined

--> scalar - accept only one value

--> inline - table -valued -table

--> multi statement table valued

--> inline example

create database functions

use functions

--> simple functiion

create function te(@a int)

returns int

as

begin

return @a+@a

end

-- calling the function

select dbo.te(20) as 'Result'

--create table

create table student

(

id int primary key IDENTITY,

NAME varchar(25),

DOB date

)

insert into student values('Disha','01/03/1998')

select \* from student

--creating a function for the DOB coloum in student

create function calculateage(@age date)

Returns int

as

begin

Declare @tage int

set @tage=DATEDIFF(YEAR,@age,GETDATE())

return @tage

end

--display

select dbo.calculateage('12/12/2022') as Age

select id,name,dob,dbo.calculateage(dob) as Age from Student

--2) INLINE TABLED VALUES -RETURNS A TABLE ,ONLY ONE STATMENT CAN BE USED

--BEGIN END NOT REQIRED

create function inl\_table(@id int)

Returns table

as

return (select \* from student where id=@id)

select \* from inl\_table(1)

--3) MULTI STATMENT TABLE VALUED,MORE THAN ONE STATMENT , BEGIN AND EEND MUST BE USED

create function multistatment()

returns @table table(id int , name varchar(25) , Dateofbirth DATE)

as

begin

insert into @table

select id , NAME , DOB from student where NAME='Disha';

Return

end

--function calling

select \* from multistatment()