**T-SQL Assignments Day –1**

**String Functions:**

Print CONCAT( 'Hello',' ','World' );

Print LEFT('Hello World', 5)

Print Lower('HELLO WORLD')

Print LTrim(' Hello World')

Print QUOTENAME('Hello world')

Print Replace('Hello world','world','sai')

Print Replicate('s ',3)+'Sai'

Print Reverse('dlrow olleH')

Print Right('Hello World', 5)

Print RTrim(' Hello World ')

Print Stuff('Hello World',6,1,'sai')

Print SubString('Hello World',1,5)

Print Trim(' Hello World ')

Print Trim(',.?' from '?Hello world.,')

Print Upper('hello world')

**Date Functions:**

print GETDATE()

print DATENAME(year, '2021-09-22 12:10:30.123')

print DATENAME(month, '2021-09-22 12:10:30.123')

print DATENAME(day, '2021-09-22 12:10:30.123')

print DATENAME(dayofyear, '2021-09-22 12:10:30.123')

print DATENAME(weekday, '2021-09-22 12:10:30.123')

print DATEPART(week, '2021-09-22')

print DATEPART(weekday, '2021-09-22')

print DAY('2021-09-22')

print MONTH('2021-09-22')

print YEAR('2021-09-22')

SELECT DATEADD(month, 1, '20210922');

SELECT DATEADD(year, 1, '20210922');

if ISDATE('20210932') = 1

print 'VALID'

else

print 'INVALID';

**Number Functions:**

print CEILING(4.01)

print FLOOR(4.99)

print ROUND(4.54321,2)

print SQRT(36)

**OUTPUT PARAMS:**

CREATE PROCEDURE outNameAndJob(@empno int, @enameAndJob varchar(50) output)

AS

BEGIN

SELECT @enameAndJob = ename+' job-'+job

FROM emp WHERE EMPNO = @empno

END

**Procedures:**

**INSERT into EMP:**

CREATE PROCEDURE AddNewEmpDetails(@empno int, @ename varchar(14),@job varchar(14),@mgr int,@hiredate date, @sal int, @comm int, @deptno int)

AS

BEGIN

INSERT INTO EMP VALUES(@empno, @ename, @job, @mgr, @hiredate, @sal, @comm, @deptno)

END

EXEC AddNewEmpDetails 2073,'Sai','ADMIN',7369,'2021-06-09',3500,100,10

**UPDATE in EMP**

CREATE PROCEDURE UpdateEmp(@empNo int,@ename varchar(15))

AS

BEGIN

update EMP set ename = @ename

WHERE EMPNO = @empno

END

EXEC UpdateEmp @empno= 2073, @ename = 'Sai Srinu'

**DELETE in EMP**

CREATE PROCEDURE DeleteEmp(@empNo int)

AS

BEGIN

DELETE emp

WHERE empno = @empNo

END

EXEC DeleteEmp @empNo= 2073

**DIFFERENCES BETWEEN PROCEDURES AND FUNCTIONS:**

|  |  |
| --- | --- |
| **Procedure** | **Function** |
| We don’t need to return in procedure | We must return values in function |
| We can use ‘output’&’input’ params | We cannot use ‘output’ params |
| Procedure can allow DML functionslike insert, delete, update | Functions cannot allow DML functions |
| In Procedure we use “Exec” or “Execute” to invoke procedure. | In Function we use “dbo.*function\_name*” to invoke a function. |