**Module-5**

**Assignment**

**CODE:**

**FUNCTION**

CREATE TABLE empDB(

emp\_id numeric(4) NOT NULL,

first\_name varchar(20) NOT NULL,

last\_name varchar(20) NOT NULL,

mgr\_id numeric(4) NOT NULL,

deptno numeric(2) NOT NULL,

salary numeric(10,2) NOT NULL,

PRIMARY KEY(emp\_id)

);

INSERT INTO empDB(emp\_id,first\_name,last\_name,mgr\_id,deptno,salary) VALUES (1001,'Sayan','Chowdhury',1001,40,60000);

INSERT INTO empDB(emp\_id,first\_name,last\_name,mgr\_id,deptno,salary) VALUES (1002,'Kinjal','Mitra',1002,41,45000);

INSERT INTO empDB(emp\_id,first\_name,last\_name,mgr\_id,deptno,salary) VALUES (1003,'Agniva','Saha',1003,42,30000);

INSERT INTO empDB(emp\_id,first\_name,last\_name,mgr\_id,deptno,salary) VALUES (1004,'Sutapa','Mitra',1004,40,32000);

INSERT INTO empDB(emp\_id,first\_name,last\_name,mgr\_id,deptno,salary) VALUES (1005,'Tamal','Mitra',1005,43,31000);

INSERT INTO empDB(emp\_id,first\_name,last\_name,mgr\_id,deptno,salary) VALUES (1006,'Sucharita','Mitra',1006,44,35000);

INSERT INTO empDB(emp\_id,first\_name,last\_name,mgr\_id,deptno,salary) VALUES (1007,'Satyajit','Biswas',1007,45,25000);

INSERT INTO empDB(emp\_id,first\_name,last\_name,mgr\_id,deptno,salary) VALUES (1008,'Shruti','Halder',1008,42,44000);

INSERT INTO empDB(emp\_id,first\_name,last\_name,mgr\_id,deptno,salary) VALUES (1009,'Riccky','Lawrence',1009,40,28000);

GO

CREATE FUNCTION fn\_getdeptno(@empid AS INT)

RETURNS INT

BEGIN

RETURN (SELECT deptno FROM empDB WHERE EMP\_ID=@empid)

END

GO

USE[master]

GO

SELECT \* FROM empDB WHERE deptno=dbo.fn\_getdeptno(1001);

GO

**TRIGGER**

CREATE TABLE empDatabase(

emp\_id numeric(4) NOT NULL,

first\_name varchar(20) NOT NULL,

last\_name varchar(20) NOT NULL,

mgr\_id numeric(4) NOT NULL,

deptno numeric(2) NOT NULL,

salary numeric(10,2) NOT NULL,

PRIMARY KEY(emp\_id)

);

INSERT INTO empDatabase(emp\_id,first\_name,last\_name,mgr\_id,deptno,salary) VALUES (1001,'Sayan','Chowdhury',1001,40,60000);

INSERT INTO empDatabase(emp\_id,first\_name,last\_name,mgr\_id,deptno,salary) VALUES (1002,'Kinjal','Mitra',1002,41,45000);

INSERT INTO empDatabase(emp\_id,first\_name,last\_name,mgr\_id,deptno,salary) VALUES (1003,'Agniva','Saha',1003,42,30000);

INSERT INTO empDatabase(emp\_id,first\_name,last\_name,mgr\_id,deptno,salary) VALUES (1004,'Sutapa','Mitra',1004,40,32000);

INSERT INTO empDatabase(emp\_id,first\_name,last\_name,mgr\_id,deptno,salary) VALUES (1005,'Tamal','Mitra',1005,43,31000);

INSERT INTO empDatabase(emp\_id,first\_name,last\_name,mgr\_id,deptno,salary) VALUES (1006,'Sucharita','Mitra',1006,44,35000);

INSERT INTO empDatabase(emp\_id,first\_name,last\_name,mgr\_id,deptno,salary) VALUES (1007,'Satyajit','Biswas',1007,45,25000);

INSERT INTO empDatabase(emp\_id,first\_name,last\_name,mgr\_id,deptno,salary) VALUES (1008,'Shruti','Halder',1008,42,44000);

INSERT INTO empDatabase(emp\_id,first\_name,last\_name,mgr\_id,deptno,salary) VALUES (1009,'Riccky','Lawrence',1009,40,28000);

GO

CREATE TRIGGER trg\_employee

ON empDatabase

AFTER INSERT

AS

BEGIN

SET NOCOUNT ON;

INSERT INTO empDatabase(

[emp\_id],

[first\_name],

[last\_name],

[mgr\_id],

[deptno],

[salary])

SELECT [emp\_id],

[first\_name],

[last\_name],

[mgr\_id],

[deptno],

[salary]

FROM INSERTED;

END

GO

CREATE AND EXECUTE STORED PROCEDURE

CREATE TABLE employeeDatabase(

emp\_id numeric(4) NOT NULL,

first\_name varchar(20) NOT NULL,

last\_name varchar(20) NOT NULL,

mgr\_id numeric(4) NOT NULL,

deptno numeric(2) NOT NULL,

salary numeric(10,2) NOT NULL,

PRIMARY KEY(emp\_id)

);

INSERT INTO employeeDatabase(emp\_id,first\_name,last\_name,mgr\_id,deptno,salary) VALUES (1001,'Sayan','Chowdhury',1001,40,60000);

INSERT INTO employeeDatabase(emp\_id,first\_name,last\_name,mgr\_id,deptno,salary) VALUES (1002,'Kinjal','Mitra',1002,41,45000);

INSERT INTO employeeDatabase(emp\_id,first\_name,last\_name,mgr\_id,deptno,salary) VALUES (1003,'Agniva','Saha',1003,42,30000);

INSERT INTO employeeDatabase(emp\_id,first\_name,last\_name,mgr\_id,deptno,salary) VALUES (1004,'Sutapa','Mitra',1004,40,32000);

INSERT INTO employeeDatabase(emp\_id,first\_name,last\_name,mgr\_id,deptno,salary) VALUES (1005,'Tamal','Mitra',1005,43,31000);

INSERT INTO employeeDatabase(emp\_id,first\_name,last\_name,mgr\_id,deptno,salary) VALUES (1006,'Sucharita','Mitra',1006,44,35000);

INSERT INTO employeeDatabase(emp\_id,first\_name,last\_name,mgr\_id,deptno,salary) VALUES (1007,'Satyajit','Biswas',1007,45,25000);

INSERT INTO employeeDatabase(emp\_id,first\_name,last\_name,mgr\_id,deptno,salary) VALUES (1008,'Shruti','Halder',1008,42,44000);

INSERT INTO employeeDatabase(emp\_id,first\_name,last\_name,mgr\_id,deptno,salary) VALUES (1009,'Riccky','Lawrence',1009,40,28000);

GO

CREATE PROCEDURE sp\_GETEMPLOYEEINFO(@empid AS INT)

AS

BEGIN

SELECT [emp\_id],

[first\_name],

[last\_name],

[mgr\_id],

[deptno],

[salary]

FROM employeeDatabase WHERE emp\_id=@empid

END;

GO

USE[master]

GO

DECLARE @return\_value INT

EXEC @return\_value=[dbo].[sp\_GETEMPLOYEEINFO]

@empid=1001

SELECT 'Return Value'=@return\_value