

# 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

```