```sql
-- # ASSIGNMENT-8 # --

--USE EMPLOYEE;


CREATE FUNCTION CALCULATE (@X INT, @Y INT, @Z CHAR(1))
RETURNS INT
AS
BEGIN
    DECLARE @O AS INT

    IF @Z = '+'
        SET @O = @X+@Y
    ELSE IF @Z = '-'
        SET @O = @X-@Y
    ELSE IF @Z = '*'
        SET @O = @X*@Y
    ELSE IF @Z = '/'
        SET @O = @X/@Y
    ELSE IF @Z = '%'
        SET @O = @X%@Y
    ELSE
        SET @O = 0

    RETURN @O
END;


SELECT DBO.CALCULATE(10,5,'/') AS 'RESULT';

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

CREATE FUNCTION OFFMAIL (@NAME AS VARCHAR(20), @ID AS CHAR(5))
RETURNS CHAR(13)
AS
BEGIN
    DECLARE @EMAIL AS CHAR(13)

    SET @EMAIL = CONCAT(LEFT(@NAME, 1),
                        LEFT(RIGHT(@NAME,
                        CHARINDEX(' ' ,@NAME)), 1),
                        RIGHT(@ID, 3), '@RCG.COM')

    RETURN @EMAIL
END;


SELECT DBO.OFFMAIL('SURESH KRISHNA','E1066') AS 'OFFICIAL MAIL';

-------------------
```

```sql
CREATE FUNCTION EMP_DEPT (@DEPT CHAR(6))
RETURNS TABLE
AS
    RETURN (SELECT EMP.EMPID, NAME, DESI, DEPT, SALARY
            FROM EMP
            INNER JOIN EMPSAL
            ON EMP.EMPID = EMPSAL.EMPID
            WHERE DEPT= @DEPT);

SELECT * FROM EMP_DEPT('ADMIN');

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

CREATE FUNCTION CURR_BDY()
RETURNS TABLE
AS
    RETURN (SELECT EMP.NAME, DEPT, DESI, CITY
            FROM EMP
            INNER JOIN EMPSAL
            ON EMP.EMPID = EMPSAL.EMPID
            WHERE MONTH(DOB) = MONTH(GETDATE()));

SELECT * FROM CURR_BDY();

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CREATE FUNCTION SENIOR_EMP()
RETURNS TABLE
AS
    RETURN(SELECT EMP.NAME, DEPT, DOJ
            FROM EMP
            INNER JOIN EMPSAL
            ON EMP.EMPID = EMPSAL.EMPID
            WHERE DATEDIFF(YY,DOJ,GETDATE())>5);

SELECT * FROM SENIOR_EMP();
```