```
-- Switch to the Requered Database
 2 Use TEST;
 3
 4 -- View the Records in the EMP and EMP SAL Tables
 5 Select * From EMP;
 6 Select * From EMP_SAL;
7
8 -- Assignment 8
9
10
    -- 1) Create a Function CALC to Perform The Specified Operation on the Given 🤝
      Two Numbers.
11 Create Function CALC (@A As Int, @B As Int, @D As Char(1))
12 Returns Int
13 As
14 BEGIN
15
          Declare @C As Int;
16
          If @D = '+'
17
                Set @C = @A + @B;
          Else If @D = '-'
18
19
                Set @C = @A - @B;
          Else If @D = '*'
20
                Set @C = @A * @B;
21
          Else If @D = '/'
22
                Set @C = @A / @B;
23
          Else If @D = '%'
24
                Set @C = @A \% @B;
25
26
          Else
27
                Set @C = 0;
28
          Return @C;
29 END;
   -- Perform Addition of Two Numbers
31 Select DBO.CALC(65, 25, '+') As Addition;
32
33
   -- Perform Subtraction of Two Numbers
34 Select DBO.CALC(65, 25, '-') As Subtraction;
35
   -- Perform Product of Two Numbers
36
37 Select DBO.CALC(65, 25, '*') As Product;
    -- Perform Division of Two Numbers
40 Select DBO.CALC(65, 25, '/') As Division;
42
   -- Perform Remainder of Two Numbers
43 Select DBO.CALC(65, 25, '%') As Remainder;
44
45
    -- 2) Function to Generate the EMAIL ID by Accepting NAME & EID. EMAIL Should →
       Contain 1st Character of 1st NAME, 1st Character of Last NAME, Last 3
      Digits of EMP ID Followed By @RCG.COM
46 Create Function OMAIL (@ID As Char(5), @N As VarChar(50), @D As VarChar(50))
47 Returns VarChar(100)
48 As
49 BEGIN
50
       Declare @EM As VarChar(100);
51
       Declare @L As Int;
52
       Declare @S As Int;
53
       Declare @LN As VarChar(20);
```

```
...RCJ360\Workplace\SQL Hands-On\Learning-8\Hands On-8.sql
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54
 55
        Set @L = LEN(@N);
        Set @S = CHARINDEX(' ', @N);
 56
 57
        Set @LN = RIGHT(@N, @L- @S);
 58
        Set @EM= UPPER(CONCAT(LEFT (@N, 1), LEFT (@LN, 1), RIGHT (@ID, 4), '@',
 59
          @D, '.COM'));
 60
 61
        Return @EM;
 62 END;
 63
    -- Verification of the Function is Working Properly
 65 SELECT DBO.OMAIL('E0001', 'Rupak Jogi', 'RCG');
 66
 67
     -- Applying Function on EMP Table
 68 Select EID, NAME, DBO.OMAIL(EID, NAME, 'RCG') AS 'OFFICIAL EMAIL'
 69 FROM EMP;
 70
 71
    -- 3) Function To Return EID, NAME, DESI, DEPT, SALARY of the Employees af a 🤝
       Specified Department.
 72 Create Function EMPDEPT (@D As VarChar(50))
 73 Returns Table
 74 As
 75
            Return(Select EMP.EID, NAME, DESI, DEPT, SALARY
            From EMP
 76
            INNER JOIN EMP SAL
 77
 78
            ON EMP.EID = EMP SAL.EID
 79
            Where DEPT = @D);
 80
    -- Verification of the EMPDEPT Function
 81
 82 Select * From DBO.EMPDEPT('OPS');
 83
     -- 4) Function to Display the NAME, DEPT, DESI, CITY of the Employees Who
 84
       Have the Birthday in the Current Month.
 85 Create Function EMPBIRTHM (@BM As Int)
 86 Returns Table
 87 As
 88
            Return(Select EMP.EID, NAME, DEPT, DESI, CITY
 89
            From EMP
 90
            INNER JOIN EMP_SAL
 91
            ON EMP.EID = EMP SAL.EID
 92
            Where Month(DOB) = @BM);
    -- Verification of the EMPBIRTHM Function
 95 Select * From DBO.EMPBIRTHM(7);
 96
     -- 5) Function to Display the NAME, DEPT and DOJ of Employees Who Have
 97
       Completed 5 Years in the Company.
 98 Create Function EMPCY (@CY As Int)
 99 Returns Table
100 As
            Return(Select EMP.EID, NAME, DEPT,DOJ, DATEDIFF(Year, DOJ, GETDATE()) →
101
              As YEARS COMPLETED
102
            From EMP
103
            INNER JOIN EMP SAL
104
            ON EMP.EID = EMP SAL.EID
```

```
106
107 -- Verification of the EMPBIRTHM Function
108 Select * From DBO.EMPCY(5);
```