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Lab 16: Cursors

```
1.
   CREATE FUNCTION dbo.LAB16(@studentid VARCHAR(100))
   RETURNS DECIMAL(5,2)
   AS
   BEGIN
       DECLARE @TotalGrade INT;
         DECLARE @temp INT;
       DECLARE @avg DECIMAL(5,2);
       DECLARE @count INT;
       DECLARE labcursor16 CURSOR FOR
           SELECT FinalGrade
                      FROM dbo.CourseEnrollment
                      WHERE CourseEnrollment.StudentId = @studentid;
       SET @TotalGrade = 0;
         SET @count =0;
       OPEN labcursor16;
       FETCH NEXT FROM labcursor16 INTO @temp
       WHILE @@FETCH_STATUS=0
       BEGIN
           SET @TotalGrade = @TotalGrade + @temp;
               SET @count = @count + 1;
           FETCH NEXT FROM labcursor16 INTO @temp
       END
         SET @avg=@TotalGrade/@count
       CLOSE labcursor16
       DEALLOCATE labcursor16
         RETURN @avg;
   END
```

```
SQLQuery6.sql - LCS-VC-MSSQL-01.ad.syr.edu.ssingh11Database (ssingh11 (93))*
                                                                                                       ▼ 🗖 X
   □CREATE FUNCTION dbo.CalculateAverageGrade(@studentid VARCHAR(100))
                                                                                                           ÷
    RETURNS DECIMAL(5,2)
    AS
    BEGIN
        DECLARE @TotalGrade INT;
        DECLARE @temp INT;
        DECLARE @avg DECIMAL(5,2);
        DECLARE @count INT;
        DECLARE labcursor16 CURSOR FOR
             SELECT FinalGrade
                 FROM dbo.CourseEnrollment
                 WHERE CourseEnrollment.StudentId = @studentid;
        SET @TotalGrade = 0;
        SET @count =0;
        OPEN labcursor16;
         FETCH NEXT FROM labcursor16 INTO @temp
        WHILE @@FETCH_STATUS=0
        BEGIN
             SET @TotalGrade = @TotalGrade + @temp;
             SET @count = @count + 1;
             FETCH NEXT FROM labcursor16 INTO @temp
         END
        SET @avg=@TotalGrade/@count
        CLOSE labcursor16
        DEALLOCATE labcursor16
        RETURN @avg;
    END
100 %
Messages
  Command(s) completed successfully.
100 % -
Query executed successfully.
                                              LCS-VC-MSSQL-01.ad.syr.edu ... ssingh11 (93) ssingh11Database 00:00:00 0 rows
```

2. SELECT * FROM CourseEnrollment;
 SELECT dbo.CalculateAverageGrade('01-HJPotter') AS AverageGrade;

