Name: Reza Shisheie

ID: 2708062

Part1 on View:

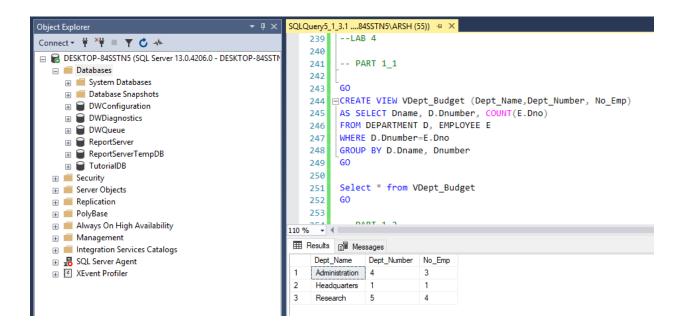
1-1) Create a view named VDept_Budget that reports headcount for each department.

The report includes 3 columns as follow:

Dept_Name, Dept_Number, No_Emp.

Include all the departments.

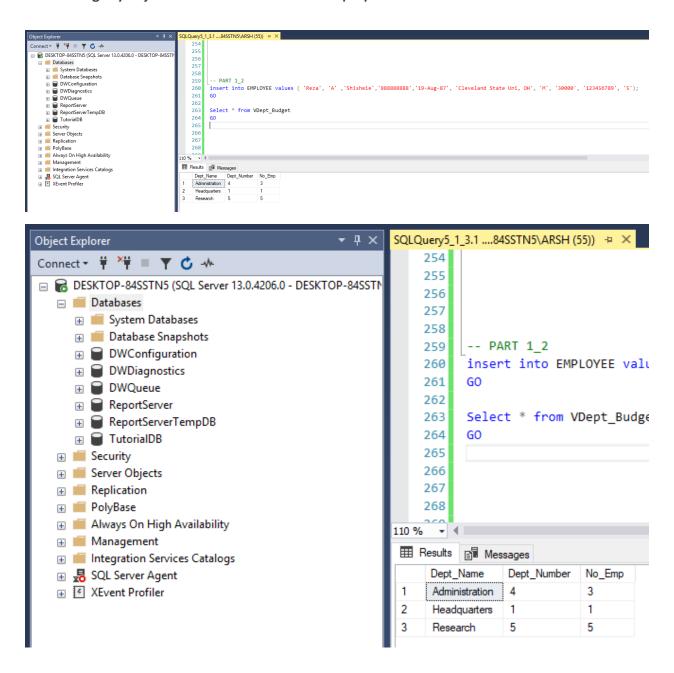
Show the content of the view through SQL (Select * from VDept_Budget;)



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1-2)

Add yourself or anyone to Employee table in the database. Then Show the content of your view again through SQL (Select * from VDept_Budget;) to see if your view is updated according to the changes you just made in the base table Employee.



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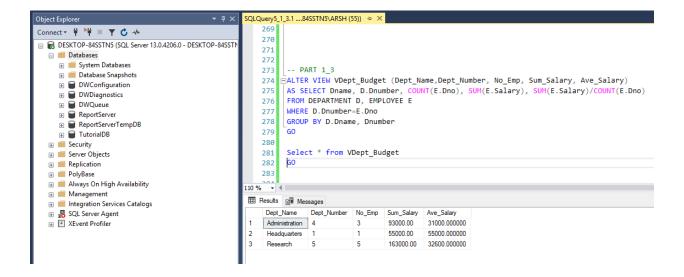
1-3)

Then Change your view to add two more info – Sum_Salary, Ave_Salary for each department. Include all the departments. Your report (view) lists 5 Columns as follow:

Dept_Name, Dept_Number, No_Emp, Sum_Salary, Ave_Salary

Show the content of your changed view to report the updated info after changes in the view and the database.

Show your SQL statements and the result of each step in a Word document. Add screenshots showing your SQLs and the results to show your report is updated before and after the changes in the database.

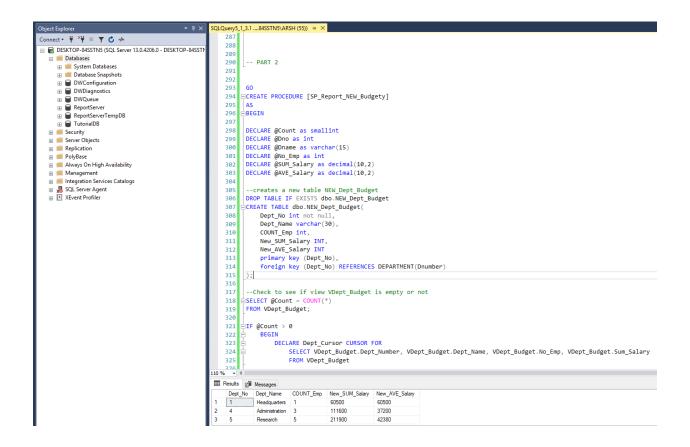


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Part2 on Stored Procedure using Cursor

Write a Stored Procedure SP_Report_ NEW_Budget using the view you created in Part 1-3).

Use CURSOR to write the stored Procedure for the tasks below.



CIS530-Lab Assignment 5

Name: Reza Shisheie

ID: 2708062

```
QLQuery5_1_3.1 ....84SSTN5\ARSH (55)) 💠 🗙
Connect ▼ ¥ ■ ▼ 🖒 🛧
                                                            327
                                                                            OPEN Dept Cursor

☐ B DESKTOP-84SSTN5 (SQL Server 13.0.4206.0 - DESKTOP-84SST)

                                                                            FETCH NEXT FROM Dept_Cursor INTO @Dno, @Dname, @No_Emp, @SUM_Salary
                                                            328
   ■ Databases
                                                           329
330
                                                                            WHILE @@FETCH STAT

System Databases

Database Snapshots
                                                                                BEGIN
                                                            331
332
                                                                                    IF @Dno=1
     DWConfiguration
DWDiagnostics
DWQueue
ReportServer
                                                                                         SET @SUM_Salary = @SUM_Salary*1.1;
                                                            333
334
                                                                                     IF @Dno=4
                                                                                         SET @SUM_Salary = @SUM_Salary*1.2;
                                                                                     IF @Dno=5

■ ReportServerTempDB

                                                            336
                                                                                         SET @SUM_Salary = @SUM_Salary*1.3;
  ■ TutorialDB

■ Security
■ Server Objects
                                                            337
338
                                                                                     IF @Dno=7
                                                                                          SET @SUM_Salary = @SUM_Salary*1.4;
                                                                                    SET @AVE_Salary @ SUM_Salary (BND_Emp;
SET @AVE_Salary @ SUM_Salary (BND_Emp;
INSERT INTO NEW_Dept_Budget VALUES (@Dno, @Dname, @NO_Emp, @SUM_SALARY, @AVE_SALARY);
                                                            339

■ PolyBase

                                                            341
342
                                                                                    FETCH NEXT FROM Dept_Cursor INTO @Dno, @Dname, @No_Emp, @SUM_Salary
   Always On High Availability
   343
                                                                            CLOSE Dept Cursor
  DEALLOCATE Dept_Cursor
                                                            345
                                                                       END
                                                                  END
                                                            347
                                                                 EXEC SP_Report_NEW_Budgety; --Execute our SP
                                                            349
                                                                  SELECT* FROM NEW Dept Budget;
                                                            351
                                                                  USE master;
--Drops the database from master and this is allowed because all of its tables within have been dropped
                                                            352
                                                            353
                                                           354
355
                                                                  Drop DATABASE [COMPANY1];
                                                           356
357
358
                                                       110 % + 4
                                                        Dept_No Dept_Name
                                                                                 COUNT Emp
                                                                                              New SUM Salary
                                                                                                            New AVE Salary
                                                                      Administration 3
                                                                                              111600
                                                                                                             37200
```

```
-- PART 2 CODE
```

```
GO
CREATE PROCEDURE [SP_Report_NEW_Budgety]
AS
BEGIN
DECLARE @Count as smallint
DECLARE @Dno as int
DECLARE @Dname as varchar(15)
DECLARE @No_Emp as int
DECLARE @SUM_Salary as decimal(10,2)
DECLARE @AVE_Salary as decimal(10,2)
--creates a new table NEW Dept Budget
DROP TABLE IF EXISTS dbo.NEW_Dept_Budget
CREATE TABLE dbo.NEW_Dept_Budget(
       Dept_No int not null,
       Dept_Name varchar(30),
       COUNT_Emp int,
       New_SUM_Salary INT,
       New_AVE_Salary INT
       primary key (Dept_No),
```

```
CIS530- Lab Assignment 5
Name: Reza Shisheie
ID: 2708062
       foreign key (Dept No) REFERENCES DEPARTMENT(Dnumber)
);
--Check to see if view VDept Budget is empty or not
SELECT @Count = COUNT(*)
FROM VDept Budget;
IF @Count > 0
       BEGIN
             DECLARE Dept Cursor CURSOR FOR
                     SELECT VDept_Budget.Dept_Number, VDept_Budget.Dept_Name,
VDept_Budget.No_Emp, VDept_Budget.Sum_Salary
                     FROM VDept_Budget
             OPEN Dept Cursor
              FETCH NEXT FROM Dept_Cursor INTO @Dno, @Dname, @No_Emp, @SUM_Salary
             WHILE @@FETCH_STATUS=0
                     BEGIN
                            IF @Dno=1
                                   SET @SUM_Salary = @SUM_Salary*1.1;
                            IF @Dno=4
                                   SET @SUM_Salary = @SUM_Salary*1.2;
                            IF @Dno=5
                                   SET @SUM_Salary = @SUM_Salary*1.3;
                            IF @Dno=7
                                   SET @SUM_Salary = @SUM_Salary*1.4;
                            SET @AVE_Salary = @SUM_Salary/@No_Emp;
                            INSERT INTO NEW Dept Budget VALUES (@Dno, @Dname, @No Emp,
@SUM_SALARY, @AVE_SALARY);
                            FETCH NEXT FROM Dept_Cursor INTO @Dno, @Dname, @No_Emp,
@SUM_Salary
                     END
              CLOSE Dept Cursor
              DEALLOCATE Dept_Cursor
       END
END
G0
EXEC SP Report NEW Budgety; -- Execute our SP
SELECT* FROM NEW Dept Budget;
USE master;
--Drops the database from master and this is allowed because all of its tables within
have been dropped
Drop DATABASE [COMPANY1];
```