CIS530– Lab Assignment 5
Name: Reza Shisheie
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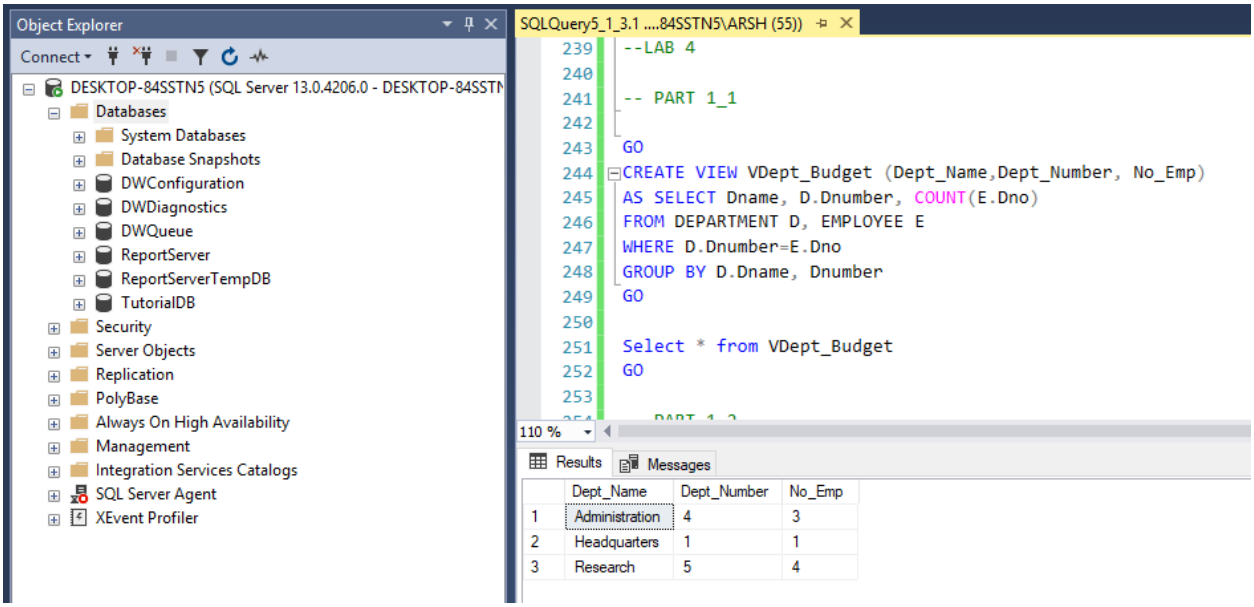
Part1 on View:

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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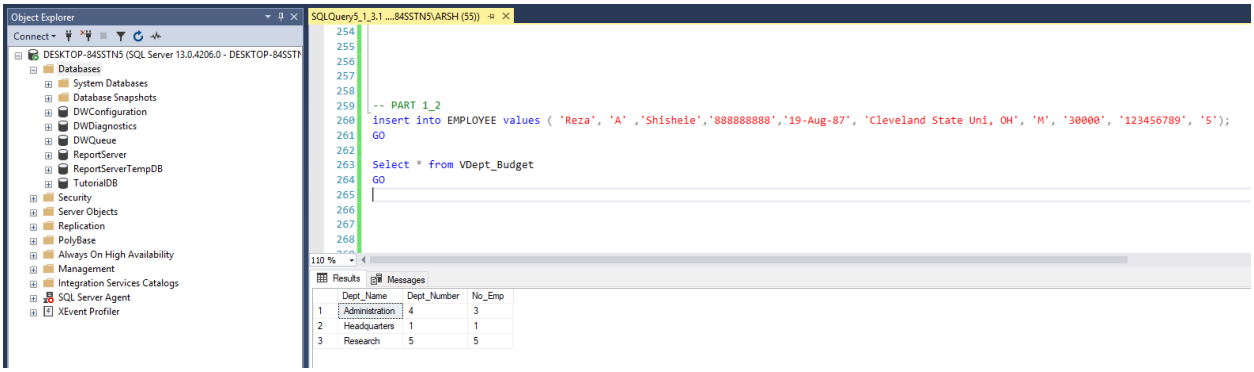
1-2)
Add yourself or anyone to Employee table in the database . Then Show the content of your view again through SQL (Select * from `VDept_Budget`;) to see if your view is updated according to the changes you just made in the base table Employee.



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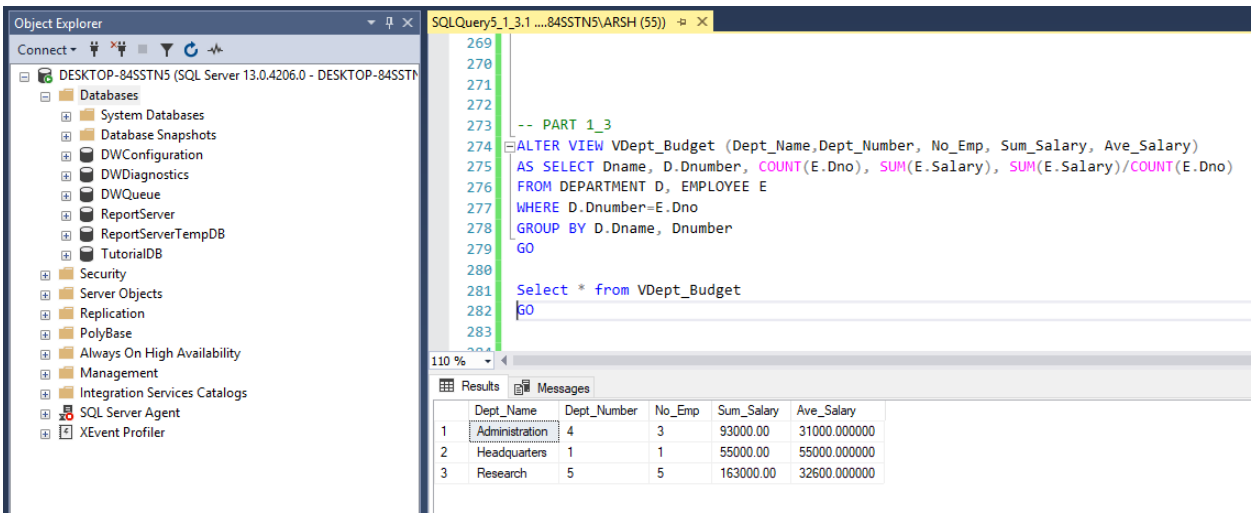
1-3)
Then Change your view to add two more info – Sum_Salary, Ave_Salary for each department. Include all the departments. Your report (view) lists 5 Columns as follow:
Dept_Name, Dept_Number, No_Emp, Sum_Salary, Ave_Salary

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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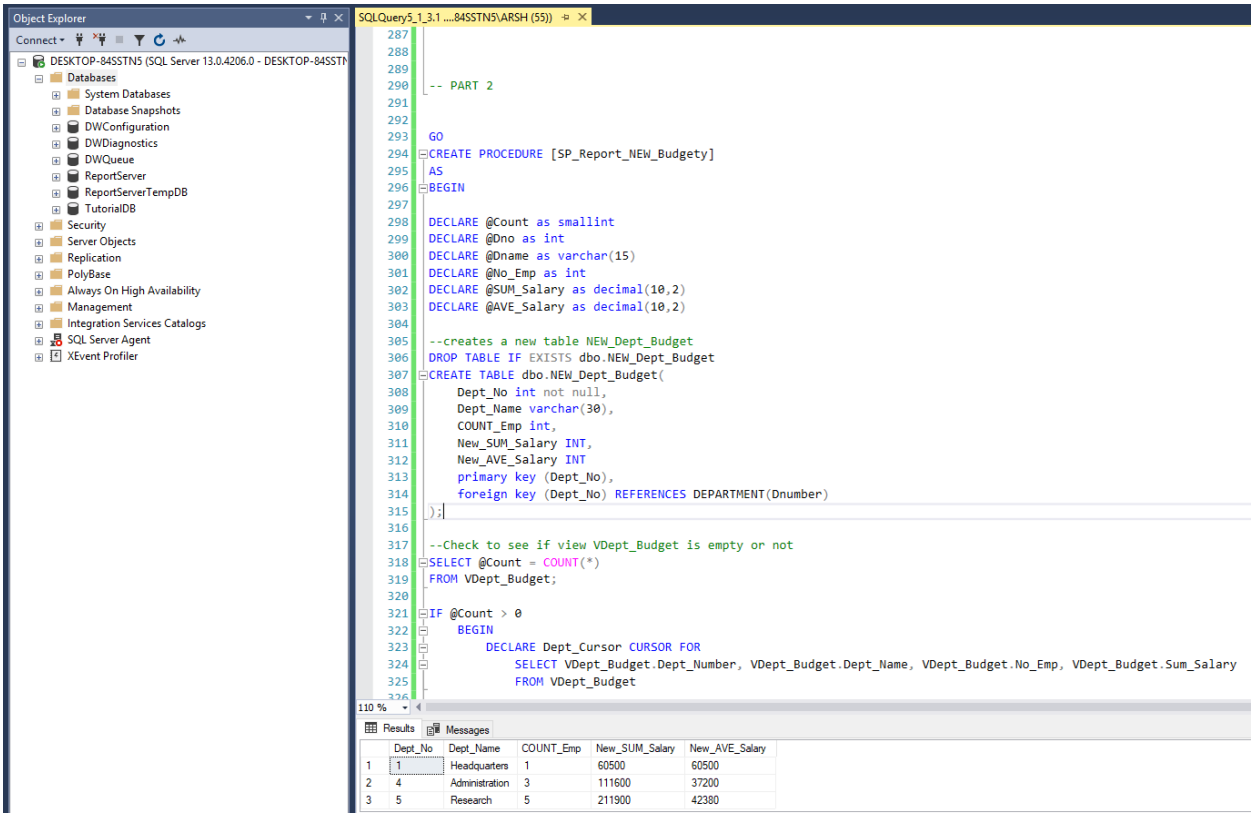
Part2 on Stored Procedure using Cursor

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.**



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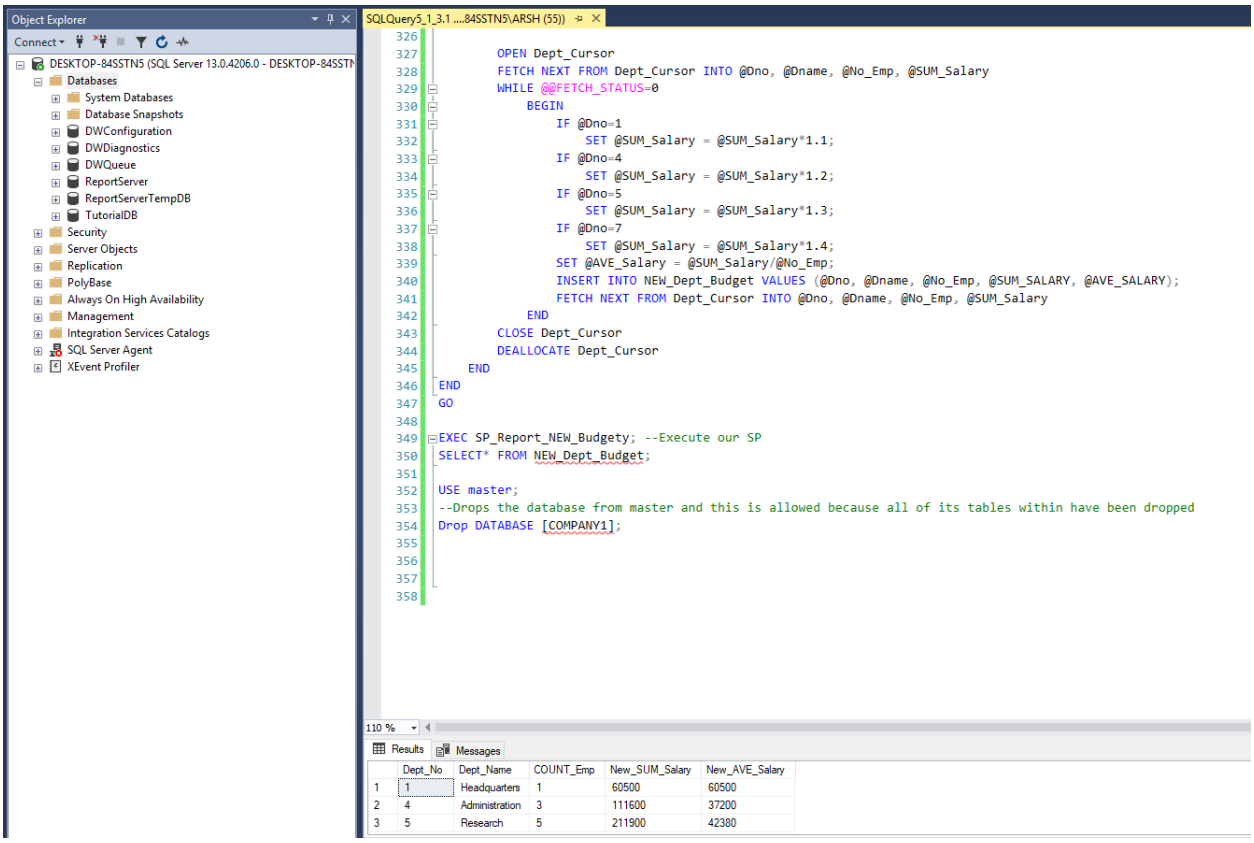


```
-- PART 2 CODE


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),
```

```
	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
GO

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];
```