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Description: Creating View and stored procedure in Microsoft SQL

Part1 on View:

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

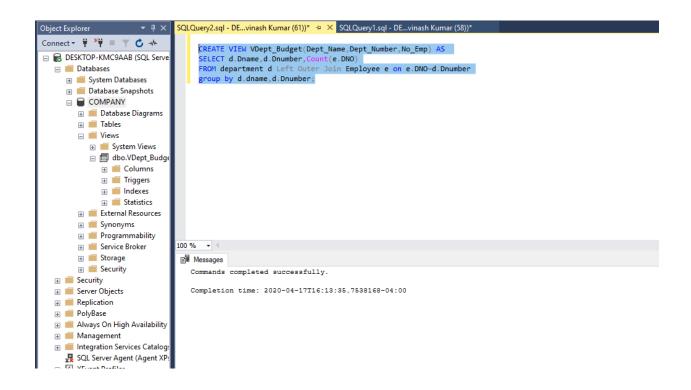
The report includes 3 columns as follow:

Dept Name, Dept Number, No Emp.

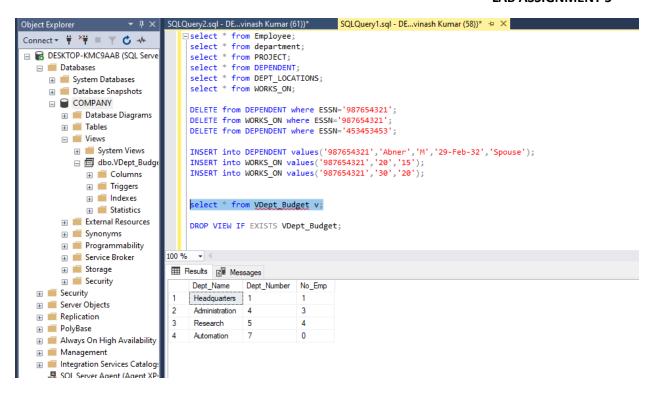
Include all the departments.

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

CREATE VIEW VDept_Budget(Dept_Name,Dept_Number,No_Emp) AS SELECT d.Dname,d.Dnumber,Count(e.DNO) FROM department d Left Outer Join Employee e on e.DNO=d.Dnumber group by d.dname,d.Dnumber;



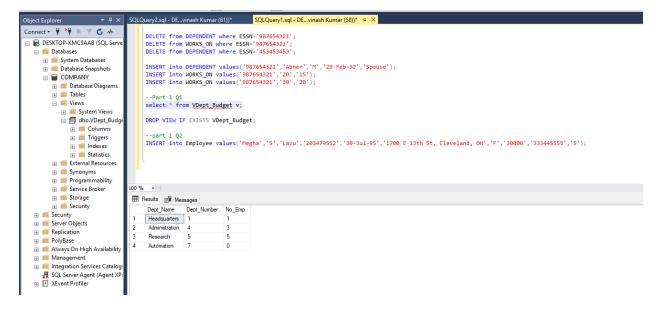
select * from VDept Budget v;



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.

```
--part 1 Q2
INSERT into Employee values('Megha','S','Lavu','203479552','30-Jul-95','1700 E 13th St, Cleveland, OH','F','30000','333445555','5');

select * from VDept_Budget v;
```



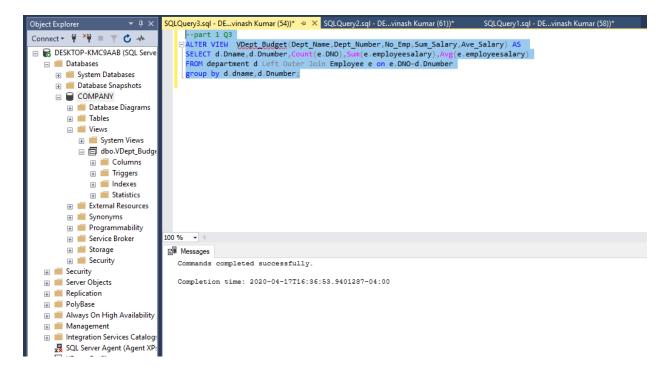
1-3) Then Change your view to add two more info – Sum_Salary, Ave_Salary for each department. Include all the departments. Your report (view) lists 5 Columns as follow: Dept Name, Dept Number, No Emp, Sum Salary, Ave Salary

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

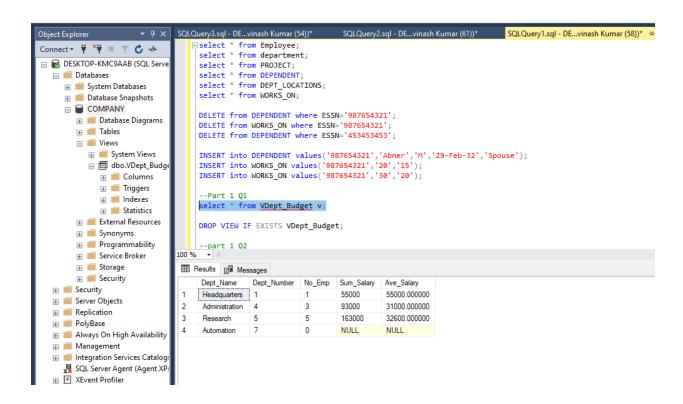
Show your SQL statements and the result of each step in a Word document. Add screenshots showing your SQLs and the results to show your report is updated before and after the changes in the database

```
--part 1 Q3
ALTER VIEW VDept_Budget(Dept_Name,Dept_Number,No_Emp,Sum_Salary,Ave_Salary)
AS
SELECT d.Dname,d.Dnumber,Count(e.DNO),Sum(e.employeesalary),Avg(e.employeesalary)
FROM department d Left Outer Join Employee e on e.DNO=d.Dnumber
group by d.dname,d.Dnumber;
```

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select * from VDept Budget v;



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.

Your Stored Procedure SP Report NEW Budget does the following tasks:

It creates a new table NEW Dept Budget as follow:

NEW Dept Budget has 5 columns

Dept_No (Int)
Dept_Name (Char(30))
COUNT_Emp (INT)
New_SUM_Salary (INT)
New AVE Salary (INT)

- 1) Check if the view VDept_Budget is empty or not (by counting rows from the view).
- 2) If not empty, For each row of the view VDept_Budget, Calculate

New_SUM_Salary, New_AVE_Salary as follow:

If Dept = 1, Increase SUM(salary) 10%

If Dept = 4, Increase SUM(salary) 20%

If Dept = 5, Increase SUM(salary) 30%

If Dept = 7, Increase SUM(salary) 40%

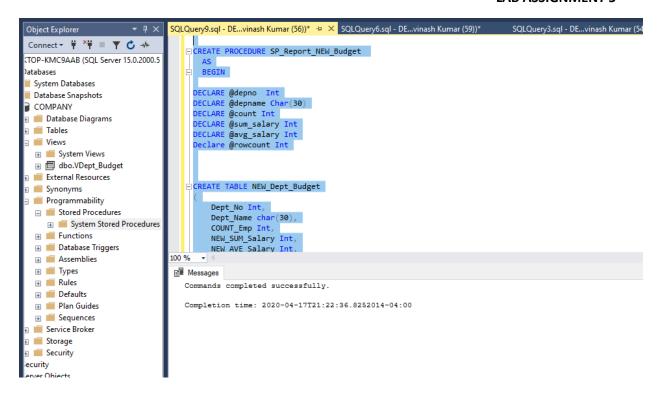
3) Insert each column value into the new table NEW Dept Budget.

Output (snapshot of screen) each Function and Procedure created and Show all the tables contents with Select statement in your output.

```
CREATE PROCEDURE SP Report NEW Budget
 AS
 BEGIN
DECLARE @depno Int
DECLARE @depname Char(30)
DECLARE
            @count Int
DECLARE @sum salary Int
DECLARE @avg salary Int
Declare @rowcount Int
CREATE TABLE NEW Dept Budget
      Dept No Int,
      Dept Name char(30),
      COUNT Emp Int,
      NEW SUM Salary Int,
      NEW AVE Salary Int,
IF EXISTS (select * from VDept Budget v)
-- checks whether the view is empty or not
Select @rowcount=count(*)
from VDept Budget v
--PRINT @rowcount
IF @rowcount > 0
BEGIN
DECLARE deptno cursor cursor For
select v.Dept Name, v.Dept Number, v.No Emp, v.Sum Salary, v.Ave Salary
            from VDept Budget v
            OPEN deptno Cursor
            BEGIN
FETCH NEXT FROM deptno cursor into
@depname,@depno,@count,@sum salary,@avg salary
            while @@FETCH STATUS =0
             BEGIN
                if @depno=1
                         begin
                          SET @sum salary= @sum salary*1.1
                          SET @avg salary= @avg salary*1.1
```

```
end
                         else if @depno=4
                         begin
                         SET @sum salary= @sum salary*1.2
                         SET @avg salary= @avg salary*1.2
                         end
                         else if @depno=5
                         begin
                          SET @sum salary= @sum salary*1.3
                         SET @avg salary= @avg salary*1.3
                         end
                         else if @depno=7
                         begin
                         SET @sum salary= @sum salary*1.4
                         SET @avg salary= @avg salary*1.4
                         end
             INSERT INTO NEW Dept Budget
values(@depno,@depname,@count,@sum salary,@avg salary)
                   FETCH NEXT FROM deptno cursor into
@depname,@depno,@count,@sum salary,@avg salary
             END
             END
              CLOSE deptno Cursor
             END
             ELSE
             PRINT 'TABLE IS EMPTY'
             DEALLOCATE deptno Cursor
             Select * from NEW Dept Budget
   END
```

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EXEC SP_Report_NEW_Budget

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