

Lab Assignment 5

CIS430/CIS530

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Lab5 has two parts.

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**;))

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.

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.

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.

COMPANY DATABASE

EMPLOYEE

FNAME	MINI T	LNAME	SSN	BDATE	ADDRESS	SEX	SALARY	SUPERSSN	DNO
John	B	Smith	123456789	09-Jan-55	731 Fondren, Houston, TX	M	30000	987654321	5
Franklin	T	Wong	333445555	08-Dec-45	638 Voss, Houston, TX	M	40000	888665555	5
Joyce	A	English	453453453	31-Jul-62	5631 Rice, Houston, TX	F	25000	333445555	5
Ramesh	K	Narayan	666884444	15-Sep-52	975 Fire Oak, Humble, TX	M	38000	333445555	5
James	E	Borg	888665555	10-Nov-27	450 Stone, Houston, TX	M	55000		1
Jennifer	S	Wallace	987654321	20-Jun-31	291 Berry, Bellaire, TX	F	43000	888665555	4
Ahmad	V	Jabbar	987987987	29-Mar-59	980 Dallas, Houston, TX	M	25000	987654321	4
Alicia	J	Zelaya	999887777	19-Jul-58	3321 Castle, SPring, TX	F	25000	987654321	4

DEPARTMENT

DNAME	DNUMBER	MGRSSN	MGRSTARTDATE
Headquarters	1	888665555	19-Jun-71
Administration	4	987654321	01-Jan-85
Research	5	333445555	22-May-78
Automation	7	123456789	06-Oct-05

DEPENDENT

ESSN	DEPENDENT_NAME	SEX	BDATE	RELATIONSHIP
123456789	Alice	F	31-Dec-78	Daughter
123456789	Elizabeth	F	05-May-57	Spouse
123456789	Michael	M	01-Jan-78	Son
333445555	Alice	F	05-Apr-76	Daughter
333445555	Joy	F	03-May-48	Spouse
333445555	Theodore	M	25-Oct-73	Son
987654321	Abner	M	29-Feb-32	Spouse

DEPT LOCATIONS

DNUMBER	DLOCATION
1	Houston
4	Stafford
5	Bellaire
5	Sugarland
5	Houston

PROJECT

PNAME	PNUMBER	PLOCATION	DNUM
ProductX	1	Bellaire	5
ProductY	2	Sugarland	5
ProductZ	3	Houston	5
Computerization	10	Stafford	4
Reorganization	20	Houston	1
Newbenefits	30	Stafford	4

WORKS_ON

ESSN	PNO	Hours
123456789	1	32.5
123456789	2	7.5
333445555	2	10
333445555	3	10
333445555	10	10
333445555	20	10
453453453	1	20
453453453	2	20
666884444	3	40
888665555	20	
987654321	20	15
987654321	30	20
987987987	10	35
987987987	30	5
999887777	10	10
999887777	30	30