Name: Omar Youssef ID:45

Name: Eslam Ahmed ID:11

Lab 5

Problem statement:

Consider the following database schema:

DEPT (Dnumber, Dname, Founded, Mgr_ssn, Budget)

EMPLOYEE (Ssn, Ename, Bdate, Dno, Salary)

Note that the attribute Founded represents the foundation date of the department. Implement PL/SQL blocks to do the following:

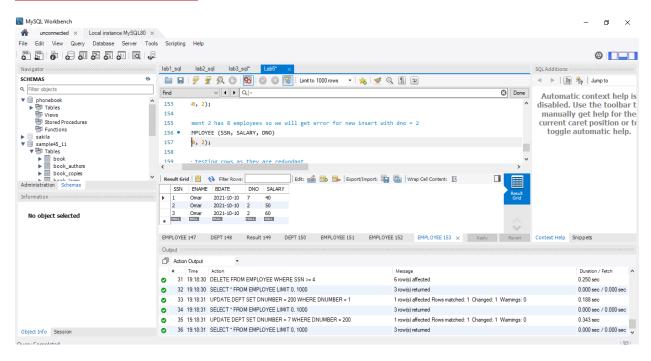
- 1-Create a stored function Count_Emp (Dnumber NUMBER) that returns the number of employees working for the department Dnumber.
- 2-Create a trigger to ensure that no department has more than 8employees.
- 3-Create a stored procedure that ensures that Year(DEPT.Founded) >=1960 for all departments; if a row violates this constraint then set its date to be'01-JAN-1960'.

Note that the two tables refer each other. You may create the tables first with the primary keys, then alter them to add the foreign keys. To insert records into tables, you can make one foreign key nullable for example the Dno in the EPLOYEE table could be null to enable adding employees then add departments records.

Steps:

- 1-Creat table DEPT.
- 2-Create table EMPLOYEE.
- 3-make function Count_EmP returns the number of employees working for the departmentDnumber.
- 4-VALID_YEAR() to check date to be date to be '01-JAN-1960'.
- 5-CREATE TRIGGER BEFORE_INSERT_EMP.
- 6-CREATE TRIGGER AFTER_UPDATE_SALARY.
- 7-We make inserts, selects deletes and updates to test our work.

Sample runs:



As we notice in the below screen we can not insert new employee as max num is 8 and we had inserted 8

