SQL Server lab 4

1. Create a stored procedure to show the number of students per department. [use ITI DB]

1. Create a stored procedure that will check for the # of employees in the project p1 if they are more than 3 print a message to the user “'The number of employees in the project p1 is 3 or more'” if they are less display a message to the user “'The following employees work for the project p1'” in addition to the first name and last name of each one. [Company DB]
2. Create a stored procedure that will be used in case there is an old employee has left the project and a new one become instead of him. The procedure should take 3 parameters (old Emp. number, new Emp. number and the project number) and it will be used to update works for table. [Company DB]

4. Create an Audit table with the following structure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ProjectNo | UserName | ModifiedDate | Hours\_Old | Hours\_New |
| p2 | Dbo | 2008-01-31 | 10 | 20 |

This table will be used to audit the update trials on the Hours column (works\_for table, Company DB)

Example:

If a user updated the Hours column, then the project number, the user name that made that update, the date of the modification and the value of the old and the new Hours will be inserted into the Audit table

Note: This process would take place only if the user updated the Hours column

5. Create a trigger to prevent anyone from inserting a new record in the Department table [ITI DB]

Print a message for the user to tell him that he ‘can’t insert a new record in that table’

6. Create a trigger that prevents the insertion Process for the Employee table in March [Company DB].

7. Create a trigger that prevents users from altering any table in Company DB.

8. Create a trigger on student table after insert to add Row in a Student Audit table (Server User Name, Date, Note) where the note will be “[username] Insert New Row with Key= [Key Value] in table [table name]”

|  |  |  |
| --- | --- | --- |
| **Server User Name** | **date** | **Note** |
|  |  |  |

9. Create a trigger on student table instead of deleting to add Row in Student Audit table (Server Username, Date, Note) where the note will be “try to delete Row with Key= [Key Value]”

**Bonus:**

**Transform all functions in lab 3 to be stored procedures**