SQLServer Lab5

1. Create a stored procedure to show the number of students per department.[use ITI DB]
2. 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”.
3. Create a stored procedure that will check for the number of total employees in the project no.100 if they are more than 3 print a message to the user “'The number of employees in the project 100 is 3 or more ” if they are less display a message to the user “'The following employees work for the project 100” in addition to the first name and last name of each one. [Company DB]
4. Create a stored procedure that will be used in case there is an old employee has left the project and a new one becomes instead him. The procedure should take 3 parameters (old Emp. SSN, new Emp. SSN, and the project no.) and it will be used to update the works\_on table.

Note: Don’t forget to check if the old employee already exists in the table and he works on that project too [Company DB]

1. Create an Audit table with the following structure

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ProjectNo | UserName | ModifiedDate | Hours\_Old | Hours \_New |
| 200 | Desktop/M987 | 2021-12-02 | 20 | 22 |

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 no., 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 will take place if the user updated the Hours column only

1. Create a trigger that prevents the insertion Process for the Employee table in March [Company DB].
2. Create a trigger that prevents users from altering any table in Company DB.
3. 10. Create a trigger on the student table after inserting to add a row in the Student Audit table (Server User Name, Date, Note) where the note will be “[username] Inserted New row with Key=[Key Value] in table [table name]”.[use ITI DB]

|  |  |  |
| --- | --- | --- |
| **Server User Name** | **Date** | **Note** |
| Desktop/M987 | 2021-12-02 | Desktop/M987 inserted a new row with key=500 in table student |

1. Create a trigger on the student table to prevent deleting and instead add a row in the Student Audit table (Server User Name, Date, Note) where the note will be “[username] tried to delete a row with Key=[Key Value]”.[use ITI DB]

Bonus:

Transform all functions in lab 3 to be stored procedures