**Day 7 Lab Assignments**

**Use Company:**

1. Use Try … Catch with any query and in catch print the @@Error value and Error message.
2. Create trigger to handel any delete operation on the Projects table to be “Soft Delete” not “Hard Delete”.
   1. In Projects table add new column of type bit with name “IsDeleted” and make default for it to be “False”.
   2. When any user tries to delete Projects, don’t allow the delete Operation, and instead of it update the “IsDeleted” to be “True” for the deleted Projects
   3. Make a view Name “vActiveProjects” to return all not deleted Projects (Return all Projects data without the “IsDeleted” column).
   4. Delete some Projects from the table.
   5. Try to select from the view, and select all data from the table. What’re the differences?
3. Create a table named “BudgetChangeAudit” with the following structure

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID(PK)(Identity) | ProjectNo | UserName | ModifiedDate | Budget\_Old | Budget\_New |
| 1 | p2 | sa | 2008-01-31 | 95000 | 200000 |

This table will be used to audit the update trials on the Budget column (Project table)

Example:

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

Note: This process will take place only if the user updated the budget column