Use ITI DB

1. Create a trigger to prevent anyone from inserting a new record in the Department table (Display a message for user to tell him that he can't insert a new record in that table)
2. Create a table named "StudentAudit". Its Columns are (Server User Name , Date, Note)

Server User Name	Date	Note

3. Create a trigger on student table after insert to add Row in StudentAudit table
    - The Name of User Has Inserted the New Student
    - Date
    - Note that will be like ([username] Insert New Row with Key = [Student Id] in table [table name]

4. Create a trigger on student table instead of delete to add Row in StudentAudit table
    - The Name of User Has Inserted the New Student
    - Date
    - Note that will be like "try to delete Row with id = [Student Id]"

Use MyCompany DB:

5. Create a trigger that prevents the insertion Process for Employee table in March.

Use SD32-Company:

6. Create an Audit table with the following structure

ProjectNo	UserName	ModifiedDate	Budget_Old	Budget_New
p2	Dbo	2008-01-31	95000	200000

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

If a user updated the budget column then the project number, username that 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)

Use ITI DB :

1. Create an index on column (Hiredate) that allows you to cluster the data in table Department. What will happen?

2. Create an index that allows you to enter unique ages in the student table. What will happen?

Part 02 (Views)

Use ITI DB:

1. Create a view that displays the student's full name, course name if the student has a grade more than 50.
2. Create an Encrypted view that displays manager names and the topics they teach.
3. Create a view that will display Instructor Name, Department Name for the ‘SD’ or ‘Java’ Department “use Schema binding” and describe what is the meaning of Schema Binding
4. Create a view “V1” that displays student data for students who live in Alex or Cairo.

   Note: Prevent the users to run the following query

   Update V1 set st_address=’tanta’

   Where st_address=’alex’;

5. Create a view that will display the project name and the number of employees working on it. (Use Company DB)

use CompanySD32_DB:

1. Create a view named “v_clerk” that will display employee Number ,project Number, the date of hiring of all the jobs of the type 'Clerk'.

2. Create view named “v_without_budget” that will display all the projects data without budget

3. Create view named ” v_project_p2” that will display the emp# s for the project# ‘p2’ . (use the previously created view “v_clerk”)

4. modify the view named “v_without_budget” to display all DATA in project p1 and p2.

5. Delete the views “v_ clerk” and “v_count”

6. Create view that will display the emp# and emp last name who works on deptNumber is ‘d2’
7. Display the employee lastname that contains letter “J” (Use the previous view created in Q#7)
8. Create view named “v_dept” that will display the department# and department name
9. using the previous view try enter new department data where dept# is ’d4’ and dept name is ‘Development’
10. Create view name “v_2006_check” that will display employee Number, the project Number where he works and the date of joining the project which must be from the first of January and the last of December 2006.this view will be used to insert data so make sure that the coming new data must match the condition.