SQLServer Lab3

**Part 1: Use Company DB**

1. Create the following schema and transfer the following tables to it
2. Company Schema
3. Department table (Programmatically)
4. Project table (visually)

B. Human Resource Schema

1. Employee table (Programmatically)
2. Create a new user data type named loc with the following Criteria:

· nchar(2)

· default: NY

· create a rule for this Data type: values in (NY, DS, KW)) and associate it to the location column

1. Create a New table Named newStudent, and use the new UDD(user-defined datatype) on it.

a. Make the ID column and don’t make it identity.

1. Create a new sequence for the ID values of the previous table.

a. Insert 3 records in the table using the sequence.

b. Delete the second row of the table.

c. Insert 2 other records using the sequence.

d. Can you insert another record without using the sequence? Try it! Can you do the same if it was an identity column?

e. Can you edit the value, if the ID column is in any of the inserted records? Try it!

f. Can you use the same sequence to insert in another table?

g. If yes, do you think that the sequence will start from its initial value in the new table and insert the same IDs that were inserted in the old table?

h. How to skip some values from the sequence not to be inserted in the table? Try it.

i. Can you do the same with the Identity column?

j. What’re the differences between the Identity column and Sequence?

**Part 2: Use AdventureWorks**

1. Display FirstName and LastName for persons that are Female and single under the age of 40 using CTE.
2. Make a new table with the same data in FirstName, LastName in Person table using CTE