**Day 3 Lab Assignments**

**Use ITI or AdventureWorks according to needed tables:**

1. **Create multi-statement function that takes 2 integers and returns the values between them.**
2. **Create inline tabled-function that returns Employees name, title, Marital status, Gender (Contact Table in AdventureWorks).**
   1. Return "Not provided" instead of null titles (Use ISNull).
   2. For Marital status return “Signle or Married” instead of the appreviations used in the table. (Use Case When).
   3. For Gender return “Male or Female” instead of the appreviations used in the table. (Use Case When).
3. **Create inline tabled-valued function that return all employees names, titles in AdventureWorks database and thier experience years of work (number of years from current date to hire date), and their graduation date (birth date +21 year) in format (dd, Mon yyy) [without time].**
4. **Create scalar function that takes salary, no. of experience years as parameters, and calculates the net salary after increase, knowing that the employees will take 10% increase on the salary for each experience year, with a maximum of 70% increase.**
5. **Create function, that take department id as a parameter, and Select the employees name and salary for employees who earn the highest 10 salary in this department.**

**Bonus:**

**(Use SD35-Company DB, or any available DB)**

1. **Create scalar function that take student id, and retuen first letters of his first name and his last name concatnated with "lives in great cairo" if his address in cairo, and "lives in lovely Alexandria" if addrees is alex, and "lives in El-Mansoura" if address is Mansoura, and "lives in Assiut" if address is Assiut, if city any thing else "lives in Non ITI city".   
   Example "A.H. lives in great cairo". [ITI DB].**
2. **Create a Multi-valued function, that returns the number of employees in each department, and the sum of the salaries for employees in each department, in this format:**

|  |  |  |
| --- | --- | --- |
| **Dept. Name / Totals** | **Development** | **Quality assurance** |
| **No. of employees** |  |  |
| **Sum of Salaries** |  |  |

**(Knowing that the company has 2 departments only, first one its ID=1, and the second its ID=2).**