**Functions Lab**

**Use CompanySD**

1. Create Scalar function name **GetEmployeeSupervisor** Type: Scalar Description: Returns the name of an employee's supervisor based on their SSN.
2. Create Inline Table-Valued Function GetHighSalaryEmployees

Description: Returns a table of employees with salaries higher than a specified amount.

1. **Create function with name** **GetTotalSalary** **Type:** Scalar Function **Description:** Calculates and returns the total salary of all employees in the specified department.
2. **Create function with** **GetDepartmentManager** **Type:** Inline Table-Valued Function **Description:** Returns the manager's name and details for a specific department.
3. **Create function name**  **GetProjectDuration** **Type:** Scalar Function **Description:** Calculates and returns the duration (start date to end date) of a project.
4. **Create multi-statements table-valued function** that takes a string parameter

* If string='first name' returns student first name
* If string='last name' returns student last name
* If string='full name' returns Full Name from student table

-Note: Use “ISNULL()” function

Use ITI DB

1. Table-Valued Function - Get Instructors with Null Evaluation: This function returns a table containing the details of instructors who have null evaluations for any course.
2. Table-Valued Function - Get Top Students: This function returns a table containing the top students based on their average grades.
3. Table-Valued Function - Get Students without Courses: This function returns a table containing details of students who are not registered for any course.