Lab: Functions and Stored Procedures

You can check your solutions here: https://judge.softuni.org/Contests/3143/Revision-Exercises.

SoftUni database

Note: Before submitting your solution, make sure that the code that executes the procedures/functions for testing is in an **inactive state**.

```
--EXEC usp_SelectEmployeesBySeniority 10
```

13.   Project Duration in Weeks

Write a function **udf_ProjectDurationWeeks (@Start DATETIME, @End DATETIME)** that receives **start date and end date** and returns the **count** of the **weeks** it took to complete each project.

Example

ProjectID	StartDate	EndDate	ProjectWeeks
1	2003-06-01 00:00:00	NULL	946
2	2001-06-01 00:00:00	2003-06-01 00:00:00	105
3	2002-06-01 00:00:00	2003-06-01 00:00:00	53

14.   Salary Level Function

Write a function **ufn_GetSalaryLevel(@salary DECIMAL(18,4))** that receives **salary of an employee** and returns the **level of the salary**.

- If salary is **< 30000** return **"Low"**
- If salary is **between 30000 and 50000 (inclusive)** return **"Average"**
- If salary is **> 50000** return **"High"**

Example

Salary	Salary Level
13500.00	Low
43300.00	Average
125500.00	High

15.   Employees by Seniority

Write a stored procedure **sp_SelectEmployeesBySeniority** that receive as **parameter the** minimum years of service and returns employees with years of service above or equal to the given parameter.

Example

Parameter = 10:

FirstName	LastName	HireDate	Years
Guy	Gilbert	1998-07-31 00:00:00	23
Kevin	Brown	1999-02-26 00:00:00	22

Follow us:

Roberto	Tamburello	1999-12-12 00:00:00	22
…	…	…	…

16.   Employees with Three Projects

Create a procedure **usp_AssignProject(@emloyeeId, @projectID)** that **assigns projects** to employee. If the employee has more than **3** project throw **exception**. The exception message must be: "**The employee has too many projects!**".

Example

```
The employee has too many projects!
```