# 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**.



## 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 |

## 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 |

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

## 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

