# Lab: Functions, Triggers and Transactions

This document defines the **exercise assignments** for the MySQL course @ Software University.

You are provided with the "soft_uni" database. Use it in the following assignments.

## 1. Count Employees by Town

Write a function **ufn_count_employees_by_town(town_name)** that accepts **town_name** as parameter and returns the count of employees who live in that town. Submit your queries using the "**MySQL Run Skeleton, run queries and check DB**" strategy.

### Example

The following example is given with employees living in **Sofia**.

| count |
|-------|
| 3 |

## 2. Employees Promotion

Write a stored procedure **usp_raise_salaries(department_name)** to raise the **salary** of all employees in given department as parameter by 5%. Submit your queries using the "**MySQL Run Skeleton, run queries and check DB**" strategy.

### Example

The following example is given with employees in the "**Finance**" department ordered by **first_name**, then by **salary**.

| first_name | salary |
|------------|-----------|
| Barbara | 27 720.00 |
| Bryan | 19 950.00 |
| Candy | 19 950.00 |
| … | … |

## 3. Employees Promotion by ID

Write a stored procedure **usp_raise_salary_by_id(id)** that raises a given employee's **salary** (by **id** as parameter) by **5%**. Consider that you cannot promote an employee that **doesn't exist** – if that happens, no changes to the database should be made. Submit your queries using the "**MySQL Run Skeleton, run queries and check DB**" strategy.

### Example

The following example is given with **employee_id** = **178**.

| salary |
|--------|
| 27720.0000 |

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# 4. Triggered

Create a table **deleted_employees(employee_id PK, first_name,last_name,middle_name,job_title,deparment_id,salary)** that will hold information about fired(deleted) employees from the employees table. Add a trigger to employees table that inserts the corresponding information in **deleted_employees**. Submit your queries using the "**MySQL Run Skeleton, run queries and check DB**" strategy.