# Lab: Database Programmability and Transactions

This document defines the **exercise assignments** for the [MySQL course @ Software University.](https://softuni.bg/opencourses/databases-basics-mysql)

You are provided with the **soft\_uni** database. Use it in the following assignments.

## 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 |

## 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 = 17.

|  |
| --- |
| **salary** |
| 14175.0000 |

## 4. Triggered

Create a table deleted\_employees(employee\_id PK, first\_name,last\_name,middle\_name,job\_title,department\_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.