

Lab: Functions, Triggers and Transactions

This document defines the **exercise assignments** for the ["Databases Basics - 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
27 720.0000

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.