

Lab: Database Programmability 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** = 17.

salary
14175.0000

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.