Lab: Basic CRUD

This document defines the **lab assignments** for the "Databases Basics - MySQL" course @ Software University.

Download and get familiar with the **hospital** database schemas and tables. You will use it in the following exercises to write queries.

Problem 1: Select Employee Information

Write a query to select all employees and retrieve information about their **`id`, `first_name`, `last_name`** and **`job_title` ordered by `id`.**

Example

id	first_name	last_name	job_title
1	John	Smith	Therapist
2	John	Johnson	Acupuncturist
3	Smith	Johnson	Technician
…	…	…	…

Problem 2: Select Employees with Filter

Write a query to select all employees (**`id`, `first_name`, `last_name`, `job_title`, `salary`**) whose salaries are **higher than 1000.00**, **ordered by `id`.** Concatenate fields **`first_name`** and **`last_name`** into '**`full_name`**'.

Example

id	full_name	job_title	salary
3	Smith Johnson	Technician	1100
4	Peter Petrov	Supervisor	1100
5	Peter Ivanov	Dentist	1500.23
7	Jack Jackson	Epidemiologist	1800
…	…	…	…

Problem 3: Update Employees Salary

Update all employees salaries whose **`job_title`** is "**Therapist**" by **10%**. Retrieve information about **all salaries ordered ascending**.

Example

salary
880
990
1089
1100
…

Problem 4: Top Paid Employee

Write a query to create a view that selects all information about the top paid employee from the "**employees**" table in the **hospital** database.

Example

id	first_name	last_name	job_title	department_id	salary
8	Pedro	Petrov	Medical Director	3	2100

Problem 5: Select Employees by Multiple Filters

Write a query to retrieve information about employees, who are in **department 4** and have salary **higher or equal to 1600**. Order the information by **`id`**.

Example

id	first_name	last_name	job_title	department_id	salary
7	Jack	Jackson	Epidemiologist	4	1800
9	Nikolay	Ivanov	Nutrition Technician	4	1600

Problem 6: Delete from Table

Write a query to delete all employees from the "**employees**" table who are in department **2 or 1**. Order the information by id.

Example

id	First_name	Last_name	Job_title	Department_id	salary
4	Peter	Petrov	Supervisor	3	1100
5	Peter	Ivanov	Dentist	4	1500.23
7	Jack	Jackson	Epidemiologist	4	1800

8	Pedro	Petrov	Medical Director	3	2100
9	Nikolay	Ivanov	Nutrition Technician	4	1600