

# Lab: Basic CRUD

This document defines the **lab assignments** for the [MySQL course @ Software University](#).

Download and get familiar with the **hotel** 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	Manager
2	John	Johnson	Customer Service
3	Smith	Johnson	Porter
...	...	...	...

## Problem 2: Select Employees with Filter

Write a query to select all employees (**id**, **first\_name** and **last\_name** (as **full\_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	Porter	1100
4	Peter Petrov	Front Desk Clerk	1100
5	Peter Ivanov	Sales	1500.23
...	...	...	...

## Problem 3: Update Employees Salary

Update all employees' salaries whose **job\_title** is "Manager" by adding 100.

Retrieve information about **salaries** from table **employees**.

## 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 **hotel** database.

### Example

id	first_name	last_name	job_title	department_id	salary
8	Pedro	Petrov	Front Desk Supervisor	1	2100

## Problem 5: Select Employees by Multiple Filters

Write a query to retrieve information about employees, who are in **department 4** and has a salary **higher or equal to 1000**. Order the information by **id**.

### Example

id	first_name	last_name	job_title	department_id	salary
3	Smith	Johnson	Porter	4	1100
9	Nikolay	Ivanov	Housekeeping	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**. Then select all from table `employees` and order the information by id.

### Example

id	First_name	Last_name	Job_title	Department_id	salary
3	Smith	Johnson	Porter	4	1100
6	Ivan	Petrov	Waiter	3	990
7	Jack	Jackson	Executive Chef	3	1800
9	Nikolay	Ivanov	Housekeeping	4	1600