# Lab: Subqueries and JOINs

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

Please submit your solutions (source code) to all the below-described problems in [Judge](https://judge.softuni.org/Contests/754/Subqueries-and-JOINs-Lab).

You will use the **soft\_uni** **database** to write queries for the following exercises.

## Managers

Write a query to retrieve information about the **managers** – id, full\_name, deparment\_id and department\_name. Select the **first 5** departments ordered by employee\_id. Submit your queries using the "**MySQL prepare DB and Run Queries**" strategy.

### Example

|  |  |  |  |
| --- | --- | --- | --- |
| **employee\_id** | **full\_name** | **department\_id** | **department\_name** |
| 3 | Roberto Tamburello | 10 | Finance |
| 4 | Rob Walters | 2 | Tool Design |
| … | … | … | … |

## Towns Addresses

Write a query to get information about the **addresses** in the database, which are in **San Francisco**, **Sofia** or **Carnation**. Retrieve town\_id, town\_name, address\_text. Order the result by town\_id, then by address\_id. Submit your queries using the "**MySQL prepare DB and Run Queries**" strategy.

### Example

|  |  |  |
| --- | --- | --- |
| **town\_id** | **town\_name** | **address\_text** |
| 9 | San Fransisco | 1234 Seaside Way |
| 9 | San Fransisco | 5725 Glaze Drive |
| 15 | Carnation | 1411 Ranch Drive |
| … | … | … |

## Employees Without Managers

Write a query to get information about employee\_id, first\_name, last\_name, department\_id and salary for all employees who **don't have** a manager. Submit your queries using the "**MySQL prepare DB and Run Queries**" strategy.

### Example

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **employee\_id** | **first\_name** | **last\_name** | **department\_id** | **salary** |
| 109 | Ken | Sanchez | 16 | 125 500 |
| 291 | Svetlin | Nakov | 6 | 48 000 |
| 292 | Martin | Kulov | 6 | 48 000 |
| 293 | George | Denchev | 6 | 48 000 |

## Higher Salary

Write a query to count the number of employees who receive salary higher than the **average**. Submit your queries using the "**MySQL prepare DB and Run Queries**" strategy.

### Example

|  |
| --- |
| **count** |
| 88 |