# Lab: Subqueries and JOINs

This document defines the **lab exercise assignments** for the PostgreSQL course @ Software University.

Submit your solutions in the SoftUni Judge System.

You will need to create the **soft_uni** database for the following exercises. Download and import file **soft_uni_db.sql**. Run all queries.

## 1. 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 in the Judge system.

### Example

| town_id | town_name | address_text |
|---|---|---|
| 9 | San Fransisco | 1234 Seaside Way |
| 9 | San Fransisco | 5725 Glaze Drive |
| 15 | Carnation | 1411 Ranch Drive |
| … | … | … |
| 32 | Sofia | 163 Nishava Str, ent A, apt. 1 |

## 2. Managers

Write a query to retrieve information about the **managers** – **employee_id**, **full_name**, **deparment_id,** and **department_name**. Select the **first 5** managers ordered by **employee_id**. Submit your queries in the Judge system.

### Example

| employee_id | full_name | department_id | department_name |
|---|---|---|---|
| 3 | Roberto Tamburello | 10 | Finance |
| 4 | Rob Walters | 2 | Tool Design |
| 6 | Bradley | 5 | Purchasing |
| 12 | Terri Duffy | 1 | Engineering |
| 21 | Peter Krebs | 8 | Production Control |

## 3. Employees' Projects

Write a query to get information about the **employees**, working on a **project** with **id = 1**. Display **employee_id**, **full_name**, **project_id,** and **project_name** for all employees engaged with the project. Submit your queries in the Judge system.

### Example

| employee_id | full_name | project_id | project_name |
|---|---|---|---|
| 3 | Roberto Tamburello | 1 | Classic Vest |
| 15 | Jeffrey Ford | 1 | Classic Vest |
| 18 | John Campbell | 1 | Classic Vest |
| 36 | Alice Ciccu | 1 | Classic Vest |
| … | … | … | … |
| 246 | Frank Martinez | 1 | Classic Vest |

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# 4. Higher Salary

Write a query to **count** the number of **employees** who receive **salaries** higher than the **average**. Submit your queries in the Judge system.

## Example

| count |
| --- |
| 88 |

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