

# Lab: Table Relations

This document defines the lab assignments for [MySQL Course at Software University](#).

Get familiar with the **camp database**. You will use it in the following exercises.

## 1. Mountains and Peaks

Write a query to create two tables – **mountains** and **peaks** and **link their fields** properly. Tables should have:

- Mountains:
  - **id**
  - **name**
- Peaks:
  - **id**
  - **name**
  - **mountain\_id**

Check your solutions using the "Run Queries and Check DB" strategy.

## 2. Trip Organization

Write a query to retrieve information about SoftUni camp's transportation organization. Get information about the drivers (**name** and **id**) and their **vehicle type**. Submit your queries using the "MySQL prepare DB and Run Queries" strategy.

### Example

driver_id	vehicle_type	driver_name
1	bus	Simo Sheytanov
2	van	Roli Dimitrova
1	van	Simo Sheytanov
...	...	...

## 3. SoftUni Hiking

Get information about the hiking **routes** – **starting point** and **ending point**, and their **leaders** – **name** and **id**. Submit your queries using the "MySQL prepare DB and Run Queries" strategy.

### Example

route_starting_point	route_ending_point	leader_id	leader_name
Hotel Malyovitsa	Malyovitsa Peak	3	RoYaL Yonkov
Hotel Malyovitsa	Malyovitsa Hut	3	RoYaL Yonkov
Ribni Ezera Hut	Rila Monastery	3	RoYaL Yonkov
Borovets	Musala Peak	4	Ivan Ivanov

## 4. Delete Mountains

Drop tables from the task 1.

Write a query to create a one-to-many relationship between a table, holding information about mountains (id, name) and other - about peaks (id, name, mountain\_id), so that when a mountain gets removed from the database, all his peaks are deleted too.

Submit your queries using the "MySQL run queries & check DB" strategy.

## 5. Project Management DB\*

Write a query to create a project management db according to the following E/R Diagram:

