**Lab: Table Relations**

[Table Relations – Lab Judge](https://judge.softuni.org/Contests/Practice/Index/748#0)

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

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

[**MySQL - септември 2022**](https://softuni.bg/trainings/3850/mysql-september-2022)

[**https://softuni.bg/trainings/3850/mysql-september-2022**](https://softuni.bg/trainings/3850/mysql-september-2022)

* **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.

* **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 |
| … | … | … |

* **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 |

* **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.

* **Project Management DB\***

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

