Lab: Table Relations

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

Submit your solutions in the SoftUni Judge System.

Create a database called camp. Import camp_db.sq1 file, using camp's query tab, and run all queries. Get familiar with all tables. You will use them in the following exercises.

1. Mountains and Peaks

Write a query to create two tables - mountains and peaks and link their fields properly by setting Foreign Key **Constraint** (fk_peaks_mountains). Tables should have:

- Mountains:
 - id
 - name, max-length = 50
- Peaks:
 - \circ id
 - name, max-length = 50
 - o mountain_id

Submit your queries in the Judge system.

2. Trip Organization

Write a query to retrieve information about SoftUni camp's transportation organization. Get information about people who are drivers (driver name and driver id) and their vehicle type. The driver's name field represents the full name of a driver.

Submit your queries in the Judge system.

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 (start_point and end_point) and their leaders (leader_name and leader_id).

Submit your queries in the Judge system.

Example

start_point	end 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 Task 1.

Write a query to create a one-to-many relationship between table mountains (id, name) and table peaks (id, name, mountain_id). Set a Foreign Key Constraint (fk_mountain_id) and On Delete rule.

When a mountain is removed from the database, all its peaks are also deleted.

Submit your queries in the Judge system.

5. Project Management DB*

*This task is excluded from Judge System.

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















