

LAB: MySQL and PHP Basics

Part I - SQL Queries

All tasks must be send as SQL Scripts in one file.

Problem 1. Prepare Database

- Create new database with name “php-course”
- Create table with name “students”
- Table must contains data for:
 - Student First Name
 - Student Last Name
 - Student number
 - Phone
 - Home address
 - Date of record
 - Date of last data change
 - Is student is active or not
 - Motivation letter
 - Notes

Choose appropriate **names, types, sizes** and **mandatory** for each column. Determine which column should be **unique**. Do not forget Primary KEY!

Problem 2. Add records

- Prepare Insert SQL with data for five students
 - Two students must have all data
 - Others - only mandatory

Problem 3. Change Records

- Prepare Update SQL for data changing
 - Change phone of student with ID = 2;
 - Set address of students who do not have a number;

Problem 4. Delete Records

- Prepare Delete SQL
 - Delete data for student with ID = 1;
 - Delete data for students who do not have an address
- Prepare SQL for delete all data in table

Part II - SQL and PHP

All tasks must be send as PHP files

Problem 5. Add records

Create php file that get student data from standard input. First input must be integer which indicates the number of student that must be send. Next N lines will be in this format

<First_name> <Last_name> <Studen_number> <Phone>

None: Phone is not mandatory and can missed

All data must be saved in Database

Problem 6. Change Records

- Create php file that change student data from standard input.
- Input format must be
 <User_id> <param_name> <param_value>
- Param_name will indicate will indicate which parameter must be change
- Param_value will indicate will indicate new value of parameter
- New data must be saved in Database

Problem 7. Delete Records

- Create php file that delete student data from standard input.
- Input format must be
 <User_id>
- Data for studen with ID = N must be deleted from Database