Case Study

The assignments for lab work are based on the **taxi** database that you are familiar with from the first and second lab work. The relevant part is shown in figure 1.

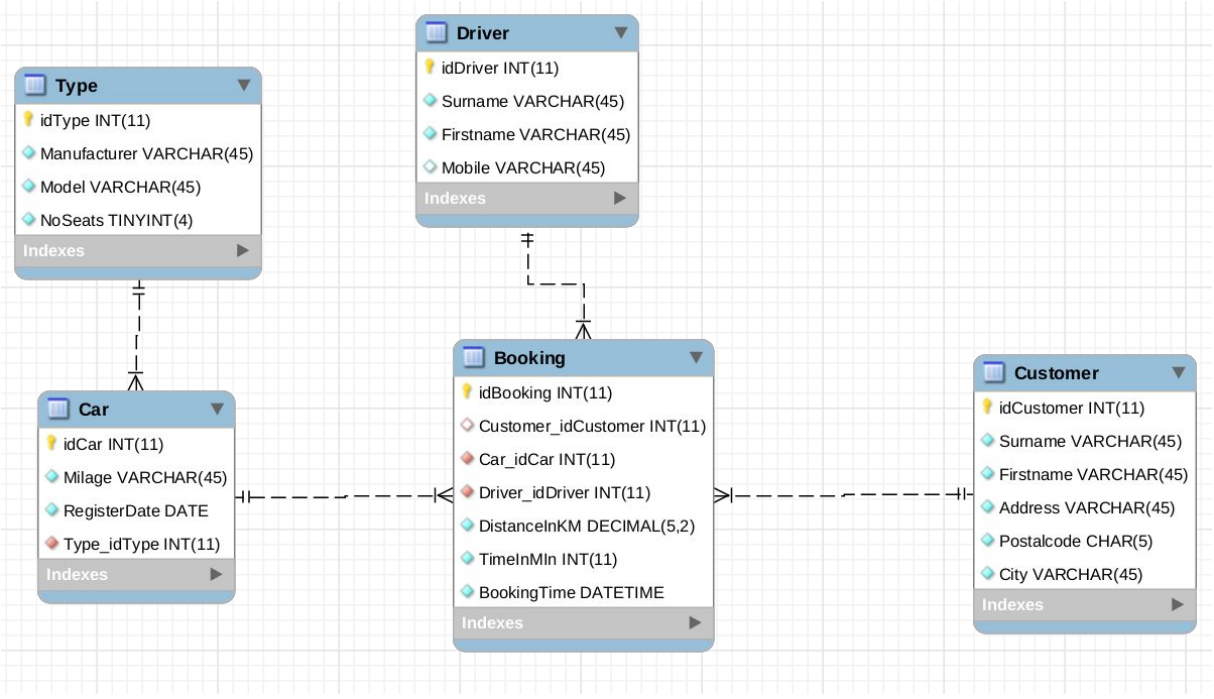

figure 1: data model

Preparation

You may use some of the code which can be found in “files.zip” in Moodle. You are also allowed to use these files in your solutions.

Solution Format

Please hand-in your **well-documented** SQL and PHP source code as a zip-file.

Assignments

For each of the following assignments the relevant SQL and PHP code has to be **created** and **documented**.

Solve the following tasks by creating an implementation based on the database “taxi”. Create an eclipse project “labworkPHP” and create the php files within this project.

1. Write the code to create a new database user called “sec_dbuser” with password “4Fa98xkHVd2XmnfK” which has only the privileges required for the web application to be deployed. This should be merely **SELECT.**
   HINT: You will need to use the admin user provided for the VM.

2. Implement the CRUD code for “CarAR.php” using PDO. Additionally, create an appropriate method for part 3.
   Hint: You will need a join or subquery for your implementation.

3. Create a page named “index.php” to search for cars and another php file to display the results. It should also be possible to merely enter substrings to search for.
   The user interface should look like this:

ID Car	Milage	Registered
1	171775	2019-09-18
2	56374	2018-12-19
3	57747	2018-03-09
4	221638	2018-06-07
5	3177	2018-01-07
6	211752	2019-01-27
7	234079	2019-04-29
8	213517	2018-07-19

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