

COMP219: Database Practice and Experience

Database Project: Deliverable 2

Deliverable 2 (single student work - DB creation and simple access)

A suitable entity relationship diagram has been chosen by your clients and will be posted on Moodle. The next step is not a group project but each student needs to do **Deliverable 2** separately. You will now create a database design based on this chosen diagram.

What you need to do (Deliverable 2)

1. Create the relational schema from the ER diagram provided
2. Implement all tables using SQL
3. Fill the table *car* with data for five cars and the table *type* with information about prices
4. Fill the tables *instructor* and *admin* with data for four instructors and three admins
5. Create a schedule in your *timeslot* table for one month
6. Create the software for the registration process for clients
7. Create the software for login of clients, instructors and admins.

Create a report describing the relational design of your database, the implementation and the data. The report should be word processed and printed on an ink jet or laser printer.

This report should include:

1. Cover page with names, table of contents, page numbers etc.
2. an introduction which describes the purpose of the report for the client (directed at client)
3. an overview of the ERD (repeated from uploaded document) and the relational schema you created
4. the SQL code you have used to create your database (excluding stored procedures or triggers)
5. show the four pre-filled DB tables (see tasks 3 and 4)
6. show a snippet of the filled timeslot table for 1 month (and any software that was used to create the data)
7. code for the registrations of clients
8. screenshots of walkthrough for a client registration example and the respective table before and after the function has been used
9. screenshots of walkthrough for the login of client, instructors and admin

NOTE: Working through the provided material and videos will be extremely useful

These steps are in preparation for D3, which then sees some more functionality of the application implemented.

Please note, Deliverable 2 is due on **Wednesday 19 April 4:00pm.**

You should submit Deliverable 2 in the following manner: Hardcopy, with coversheet for marking