

# Workshop 10: MySQL ER

Brainster Web Development Academy



For this workshop we have  
three exercises



## 01

We need to create a database for the needs of a blog site.

There are two types of users (visitors and authors).

We need to keep the following information for all users: first name, last name, email, password, date of last login and date of created profile.

For the blogs, we need to keep the following information: title, short description, url for a picture, the full text of the blog, by whom it has been written, on what date it has been written and when was it last edited.



## 02

Create an ER diagram for a vehicle renting company.

For each vehicle we need to know white type it is, its registration, date of production, consumption, manufacturer, brand, and price for one day. There are three types of vehicles: cars, trucks and motors. There are multiple brands that produce them (Ford, BMW, Audi...).

We need to keep the following information for each user that has rented a vehicle:

First name, last name, address, telephone number, email, date of renting and due date of returning the vehicle.

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One user can rent multiple vehicles, and we need to know how long will each vehicle be rented for.

Companies can also rent vehicles, just like regular users, with the difference that companies pay with an invoice.

For the companies we need to keep the following information: name of company, address, Unique Taxpayer Reference number.

For the invoice we need to keep information such as number of invoice, price, date of issue, for how long will the vehicle be rented, what vehicle has been rented and which company has rented it.



## 03

3

For the need of a faculty, we need to create a database.

Whiting the frames of the faculty, information is kept about the employees, the students and the alumni.

For every employe, student and alumni we need to have their first name, last name, EMB, gender, date of birth and address. For each employee, we additionally have to know what is his salary.

There are two types of employees: professors and assistants.

For the personal we need to know the position they work on, while for the professors, we need to know their rank (assistant professor, associate or full professor).

The assistants can also be students and there are two types of assistants: research assistants or teaching assistants. One assistant can only be a research assistant or a teaching assistant.

For every research assistant we need to know on which project they have worked on, while for the teaching assistants we need to know on what subject they hold their workshops.

For the alumni members we need to keep information such as the diplomas they have received and the type of diploma (three year or four year), the date of graduation, and the field of graduation.

For the students we need to keep information such as the module that they are on and their index.



# Break a leg!

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If you haven't finished all three exercises, please try to finish them at home.

