MySQL

Preparing XAMPP

- 1. In XAMPP's control panel, turn on MySQL. Click Admin.
- 2. Create a new database (database name: carros)
- 3. In the SQL tab, run the following code:

```
CREATE TABLE marca(
    mc_id INT PRIMARY KEY AUTO_INCREMENT,
    mc_marca VARCHAR(30));

CREATE TABLE modelo(
    md_id INT PRIMARY KEY AUTO_INCREMENT,
    md_modelo VARCHAR(30),
    md_cilindrada INT,
    md_marca INT,
    md_fotografia VARCHAR(50),
    FOREIGN KEY(md_marca) REFERENCES marca(mc_id));

INSERT INTO marca(mc_marca) VALUES('Audi'),('Ford'),('Renault');

INSERT INTO modelo(md_modelo, md_cilindrada, md_marca) VALUES
('A3',2000,1),('Fiesta',1300,2),('Focus',1600,2),('Clio',1200,3);
```

PHP and MySQL

- 1. Create a folder named "fotos" and insert photos for each car on the database.
- 2. Update table "modelo" so that "md_fotografia" contains the name of the file where each picture (from the previous step) is saved.
- 3. Create a MySQL query to show the following information:

mc_marca	md_modelo	md_cilindrada	md_fotografia
Audi	A3	2000	a3.jpg
Ford	Fiesta	1300	fiesta.jpg
Ford	Focus	1600	focus.jpg
Renault	Clio	1200	clio.jpg



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4. Build a webpage that allows visualising all the information obtained in the previous query as follows:



5. Build a MySQL query to show the cars filtered by "marca". Example for "Ford":

md_modelo	md_cilindrada	md_fotografia
Fiesta	1300	fiesta.jpg
Focus	1600	focus.jpg

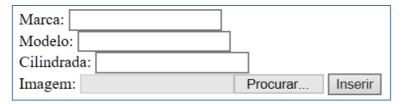
6. Build a webpage that shows the cars filtered by by "marca", using the query from the previous exercise. For this, you should create a form with a dropdown menu with all the brands (marca). After choosing and submitting the from, the webpage must show a list of the cars with that brand. Example:



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- 7. Build a MySQL query to insert a new brand (marca) into the database.
- 8. Build a MySQL query to insert a new model (modelo) into the database.
- 9. Build a webpage with a form that allows inserting new cars into the database, using the queries of the two previous exercises. Example:



- **Note 1:** To allow the upload of image files, the form must have the attribute enctype="multipart/form-data".
- **Note 2:** When inserting a new car into the database, the program must check if it already exists.
- If it exists, it should check if the model exists.
 - If it exists, the website should only display an error message (e.g.: "the car already exists")
 - o If it does not exist, it should use **mc_id** to insert the car into the **modelos** table.
- If it does not exist, the brand should be inserted.

Note 3: After inserting the car, the webpage must show the table created on 4.



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