

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

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

Marca	Modelo	Cilindrada	Fotografia
Audi	A3	2000	
Ford	Fiesta	1300	
Ford	Focus	1600	
Renault	Clio	1200	



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:

Marca:

Carros da marca **Ford**:

Modelo	Cilindrada	Fotografia
Fiesta	1300	
Focus	1600	

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:



Marca:
Modelo:
Cilindrada:
Imagem:

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”)
 - 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.