# LAB 07

# JavaScript & the DOM

1. Download the provided starter code from the LMS.
2. Inspect the code that is provided. Click on ctrl+shift+i to open the developer tools of chrome. Notice the data that has been logged into the console.

In the following, never modify the data.js file.

1. In the file lab07.js, write code to create an array of objects by parsing the given data using JSON.parse(string).
2. Create a function expression that accepts an employee object as argument and generates and returns a **tr node** using the DOM API (not string generation).

Use ***document.createElement(“tr”)*** to create a table row for example.

Use ***node.appendChild(newNode)*** to append a new node into an existing one.

1. Use the ***DOMContentLoaded*** event of the ***document*** object to create the DOM tree structure of the table into your page when the page is loaded.
2. Using javascript, add a CSS class wherever needed so that the even rows appear in grey (apply the grey class from styles.css).
3. Using javascript, add a border to your table and table cells (apply the border css class from styles.css).
4. When the document is loaded, the selection drop-down element is filled with all cities that appear in the data:

Hint: The Set data structure allows to have a collection of unique elements, in Javascript you can create a set from a given list or add elements to a new **set** :

const myList = [1,4,5,1,2,4,5,6,7];

const unique = [...new Set(myList)]; // unique will be [1, 4, 5, 2, 6, 7]

or const unique = new Set();

unique.add(e);

1. When the user selects a city and clicks on the search button, update the table with only employees from the given city.