What I have added

HTML:

<h2>Exercise 1: Filter Inventors Born in the 1500's</h2>

  <h3>Question: Which inventors were born in the 1500's?</h3>

  <table id="fifteen-table">

    <tr>

      <th>First Name</th>

      <th>Last Name</th>

      <th>Birth Year</th>

      <th>Death Year</th>

    </tr>

  </table>

  <h2>Exercise 2: Inventors' Full Names</h2>

  <h3>Question: What are the full names of the inventors?</h3>

  <table id="full-name-table">

    <tr>

      <th>Full Name</th>

    </tr>

  </table>

  <h2>Exercise 3: Sort Inventors by Birthdate</h2>

  <h3>Question: How should the inventors be sorted by birthdate?</h3>

  <table id="birthdate-table">

    <tr>

      <th>First Name</th>

      <th>Last Name</th>

      <th>Birth Year</th>

      <th>Death Year</th>

    </tr>

  </table>

  <h2>Exercise 4: Total Years Lived by Inventors</h2>

  <h3>Question: What is the total number of years lived by all the inventors?</h3>

  <table id="total-years-table">

    <tr>

      <th>Total Years Lived</th>

    </tr>

  </table>

  <h2>Exercise 5: Sort Inventors by Years Lived</h2>

  <h3>Question: How should the inventors be sorted by years lived?</h3>

  <table id="years-lived-table">

    <tr>

      <th>First Name</th>

      <th>Last Name</th>

      <th>Birth Year</th>

      <th>Death Year</th>

    </tr>

  </table>

  <h2>Exercise 6: Boulevards in Paris with 'de' in the Name</h2>

  <h3>Question: Create a list of Boulevards in Paris that contain 'de' anywhere in the name</h3>

  <p>Copy and paste the code into the console of the following Wikipedia page to see the results:

    <a href="https://en.wikipedia.org/wiki/Category:Boulevards\_in\_Paris"

      target="\_blank">https://en.wikipedia.org/wiki/Category:Boulevards\_in\_Paris</a>

  <pre>

        const category = document.querySelector('.mw-category');

        const links = Array.from(category.querySelectorAll('a'));

        const de = links

                        .map(link => link.textContent)

                        .filter(streetName => streetName.includes('de'));

                        de

    </pre>

  </p>

  <h2>Exercise 7: Sort People Alphabetically by Last Name</h2>

  <h3>Question: How should the people be sorted alphabetically by last name?</h3>

  <table id="last-name-table">

    <tr>

      <th>Full Name</th>

    </tr>

  </table>

  <h2>Exercise 8: Count Instances of Transportation Types</h2>

  <h3>Question: Sum up the instances of each of these

    const data = ['car', 'car', 'truck', 'truck', 'bike', 'walk', 'car', 'van', 'bike', 'walk', 'car', 'van', 'car',

    'truck', 'pogostick'];</h3>

  <table id="transportation-table">

    <tr>

      <th>Transportation</th>

      <th>Count</th>

    </tr>

  </table>

CSS:

 /\* My code \*/

    body {

      padding: 1%;

    }

    h2 {

      border-top: 2px solid black;

      padding-top: 1%;

    }

    pre {

      background-color: black;

      color: #2666cb;

      max-width: fit-content;

      padding: inherit;

    }

Script:

<!-- My script -->

  <script>

    // Exercise 1: Filter the list of inventors for those who were born in the 1500's

    const fifteenTable = document.getElementById('fifteen-table');

    fifteen.forEach(inventor => {

      const row = document.createElement('tr');

      row.innerHTML = `<td>${inventor.first}</td><td>${inventor.last}</td><td>${inventor.year}</td><td>${inventor.passed}</td>`;

      fifteenTable.appendChild(row);

    });

    // Exercise 2: Give us an array of the inventors first and last names

    const fullNameTable = document.getElementById('full-name-table');

    fullName.forEach(name => {

      const row = document.createElement('tr');

      row.innerHTML = `<td>${name}</td>`;

      fullNameTable.appendChild(row);

    });

    // Exercise 3: Sort the inventors by birthdate, oldest to youngest

    const birthdateTable = document.getElementById('birthdate-table');

    birthdate.forEach(inventor => {

      const row = document.createElement('tr');

      row.innerHTML = `<td>${inventor.first}</td><td>${inventor.last}</td><td>${inventor.year}</td><td>${inventor.passed}</td>`;

      birthdateTable.appendChild(row);

    });

    // Exercise 4: How many years did all the inventors live all together?

    const totalYearsTable = document.getElementById('total-years-table');

    const row = document.createElement('tr');

    row.innerHTML = `<td>${totalYears}</td>`;

    totalYearsTable.appendChild(row);

    // Exercise 5: Sort the inventors by years lived

    const yearsLivedTable = document.getElementById('years-lived-table');

    yearsLived.forEach(inventor => {

      const row = document.createElement('tr');

      row.innerHTML = `<td>${inventor.first}</td><td>${inventor.last}</td><td>${inventor.year}</td><td>${inventor.passed}</td>`;

      yearsLivedTable.appendChild(row);

    });

    // Exercise 6: Please see the instructions in the HTML code comment.

    // Exercise 7: Sort the people alphabetically by last name

    const lastNameTable = document.getElementById('last-name-table');

    lastName.forEach(name => {

      const row = document.createElement('tr');

      row.innerHTML = `<td>${name}</td>`;

      lastNameTable.appendChild(row);

    });

    // Exercise 8: Sum up the instances of each transportation type

    const transportationTable = document.getElementById('transportation-table');

    for (const item in transportation) {

      const row = document.createElement('tr');

      row.innerHTML = `<td>${item}</td><td>${transportation[item]}</td>`;

      transportationTable.appendChild(row);

    }

  </script>

As an extra feature, I have added HTML code which provides sections for each exercise using <h2> headings. Within each exercise section, I included a <h3> heading to represent the exercise question. I created a <table> element with a unique id for each exercise, allowing me to target and populate the table with results.

In the JavaScript code, I used document.getElementById() to retrieve each table element by its id. I then performed the necessary operations for each exercise and added rows to the respective tables to display the results:

* For Exercise 1, I iterated over the fifteen array and created a new row in the fifteen-table for each inventor, displaying their first name, last name, birth year, and death year.
* For Exercise 2, I iterated over the fullName array and added a row to the full-name-table for each inventor, displaying their full name.
* For Exercise 3, I populated the birthdate-table with the inventors' information, similar to Exercise 1, but sorted them by birthdate from oldest to youngest.
* For Exercise 4, I added a single row to the total-years-table to display the total number of years lived by all the inventors.
* For Exercise 5, I populated the years-lived-table with the inventors' information, similar to Exercise 1, but sorted them by the number of years lived.
* For Exercise 6, I included a comment in the HTML code instructing the user to copy and paste the provided code into the console of a specific Wikipedia page to see the results. The code for Exercise 6 is not included in the JavaScript section.
* For Exercise 7, I iterated over the lastName array and added a row to the last-name-table for each person, displaying their full name.
* For Exercise 8, I looped over the transportation object, retrieved each transportation type and its corresponding count, and added a row to the transportation-table to display the instances of each transportation type.

By including these HTML, CSS, and JS code additions, I made the exercises visually presentable, allowing users to see the results of each exercise that I have made in this challenge.