Here’s a detailed assignment for the "Tables" topic, focusing on creating a table to display course data:

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## \*\*Assignment: Create a Course Data Table\*\*

### \*\*Objective\*\*

The objective of this assignment is to practice creating and structuring tables in HTML. You will learn how to use various table-related elements to display data clearly and effectively.

### \*\*Task Description\*\*

You are required to create an HTML table that displays information about different courses. The table should include columns for the course name, duration, and difficulty level.

### \*\*Requirements\*\*

1. \*\*Table Structure\*\*:

- Use the `<table>` element to create the table.

- Include a `<thead>` section to define the header of the table.

- Use `<th>` elements within the `<thead>` to create headings for each column:

- Course Name

- Duration

- Difficulty Level

- Include a `<tbody>` section to hold the data rows.

2. \*\*Data Rows\*\*:

- Populate the table with at least \*\*five rows\*\* of course data. Each row should consist of:

- A course name (e.g., "HTML Basics")

- The duration of the course (e.g., "4 weeks")

- The difficulty level (e.g., "Beginner")

- Use the `<td>` elements to create the individual cells for the data in each row.

3. \*\*Styling (Optional)\*\*:

- You may apply basic CSS styles to enhance the visual appearance of the table (e.g., borders, padding, alternating row colors).

- Consider using CSS to make the table responsive for better display on different devices.

### \*\*Example Structure\*\*

Here is an example of how your course table might look in HTML:

```html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Course Data Table</title>

<style>

table {

width: 100%;

border-collapse: collapse;

}

th, td {

border: 1px solid #ccc;

padding: 8px;

text-align: left;

}

th {

background-color: #f4f4f4;

}

</style>

</head>

<body>

<h2>Course Data</h2>

<table>

<thead>

<tr>

<th>Course Name</th>

<th>Duration</th>

<th>Difficulty Level</th>

</tr>

</thead>

<tbody>

<tr>

<td>HTML Basics</td>

<td>4 weeks</td>

<td>Beginner</td>

</tr>

<tr>

<td>CSS Fundamentals</td>

<td>3 weeks</td>

<td>Beginner</td>

</tr>

<tr>

<td>JavaScript Essentials</td>

<td>5 weeks</td>

<td>Intermediate</td>

</tr>

<tr>

<td>Responsive Design</td>

<td>4 weeks</td>

<td>Intermediate</td>

</tr>

<tr>

<td>Web Development Bootcamp</td>

<td>10 weeks</td>

<td>Advanced</td>

</tr>

</tbody>

</table>

</body>

</html>

```

### \*\*Submission Guidelines\*\*

- Submit your HTML file (`index.html`) that includes the course data table as specified.

- Ensure your code is properly formatted and follows best practices for HTML structure.

- Test your table to ensure that it displays correctly and is easy to read.

### \*\*Evaluation Criteria\*\*

- Correct implementation of the `<table>`, `<thead>`, `<tbody>`, `<th>`, and `<td>` elements.

- Clarity and readability of the table data.

- Optional styling for improved visual presentation.

- Overall organization and clarity of the HTML document.

### \*\*Additional Tips\*\*

- Make sure to validate your HTML using an HTML validator to check for any errors.

- Consider using tools like browser developer tools to inspect and adjust styles as needed.

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This assignment provides a clear structure and guidelines for students to create and format tables in HTML effectively, ensuring that they understand the importance of proper data representation.