HTML5 Table Tag - Full Guide

1. Basic Table Structure

```
<table>
  <thead>
    <tr><th>Header 1</th><th>Header 2</th></tr>
  </thead>
  <tbody>
    <tr><td>Data 1</td><td>Data 2</td></tr>
  </tbody>
  <tfoot>
    <tr><td colspan="2">Footer Info</td></tr>
  </tfoot>
</table>
```

2. Related Tags

<table>   - Table container

<tr>   - Table row

<th>   - Header cell

<td>   - Data cell

<thead>   - Header section

<tbody>   - Body section

<tfoot>   - Footer section

<caption> - Table title

<colgroup>, <col> - Column styling

3. Attributes of <table> (Deprecated and Modern)

Deprecated (use CSS instead): border, cellpadding, cellspacing, width, align, bgcolor

Recommended: style, class, id, inline CSS styling

4. CSS Styling Example

```
<style>
```

```
  table { border-collapse: collapse; width: 80%; }

  th, td { border: 1px solid black; padding: 8px; text-align: center; }

  caption { caption-side: top; font-weight: bold; margin: 10px; }

</style>
```

5. Advanced Table Features

colspan and rowspan example:

```
<tr><td colspan="2">Merged Columns</td></tr>

<tr><td rowspan="2">Merged Rows</td><td>Row 1</td></tr>

<tr><td>Row 2</td></tr>
```

6. Full Example

```
<table style="width: 60%; border-collapse: collapse;">

  <caption>Employee Details</caption>

  <colgroup>

    <col style="background-color: #f2f2f2;">

    <col style="background-color: #ffffff;">

  </colgroup>

  <thead><tr><th>ID</th><th>Name</th></tr></thead>

  <tbody>

    <tr><td>101</td><td>Alice</td></tr>

    <tr><td>102</td><td>Bob</td></tr>

  </tbody>

  <tfoot><tr><td colspan="2">Total Employees: 2</td></tr></tfoot>

</table>
```

7. Accessibility and Best Practices

- Use <thead>, <tbody>, <tfoot> for structure

- Use <caption> for description

- Avoid deprecated attributes

- Style using CSS