Concept of Table and its Usage

1.1 What is a Table?

A table is an arrangement of data in rows and columns, forming a grid. It's a fundamental HTML element used to display structured information, such as lists, data sets, or any other tabular data.

1.2 Usage of Tables

Tables are commonly used to organize and present data in a structured format. They are used for various purposes, including displaying financial data, product specifications, schedules, and more.

2. Create Tables

2.1 Basic Table Structure

The `` element is used to create a table. Rows are defined with ``, headers with ``, and data cells with ``.

```
Header 1
Header 2

Row 1, Cell 1
Row 1, Cell 2

Row 2, Cell 1

Row 2, Cell 2

Row 2, Cell 2
```

3. Format Tables

3.1 Table Borders

Use the 'border' attribute to define the thickness of table borders.

```
<!-- Table content goes here -->
```

3.2 Table Width and Alignment

Set the width of the table using the 'width' attribute. Align the content using the 'align' attribute.

```
<!-- Table content goes here -->
```

3.3 Cell Padding and Spacing

Adjust the spacing inside and between cells using the 'cellpadding' and 'cellspacing' attributes.

```
<!-- Table content goes here -->
```

3.4 Table Caption

Add a caption to the table using the '<caption>' element.

```
<caption>Table Caption</caption>
<!-- Table content goes here -->
```

4. Table Models, Definitions, and Types

4.1 Table Models

Grid/Table Model: Represents data in a grid-like structure with rows and columns. Entity-Relationship Model: Represents relationships between different entities.

4.2 Definitions

Row: A horizontal arrangement of cells. **Column**: A vertical arrangement of cells.

Header Row: The first row containing headers defined by `` elements.

Data Cell: A cell containing actual data, defined by `` elements.

4.3 Table Types

Simple Tables: Basic tables used for general data display.

Data Tables: Tables presenting a set of data with headers, rows, and columns.

Comparison Tables: Tables used to compare different items or entities.

Matrix Tables: Tables representing relationships between two or more entities.

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