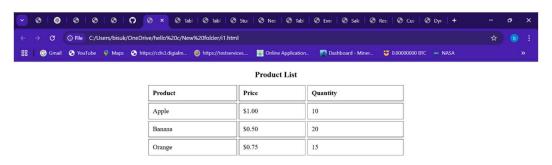
1. 1.Create a Table with Heading and Caption: Create a table that contains a heading row with three columns: "Product", "Price", and "Quantity". Include a caption at the top of the table stating "Product List". Ensure that the table has a cellpadding of 10px and cellspacing of 5px.

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Product List Table</title>
   <style>
      table {
         border-collapse: separate;
         border-spacing: 5px;
         width: 50%;
         margin: 20px auto;
         text-align: left;
      }
      th, td {
         padding: 10px;
         border: 1px solid black;
      caption {
         font-size: 1.2em;
         font-weight: bold;
         margin-bottom: 10px;
   </style>
</head>
<body>
   <caption>Product List</caption>
      Product
         Price
          Quantity
      Apple
          $1.00
         10
      Banana
         $0.50
         20
```





2. 2.Design Table with Colspan and Rowspan • Design a table with 4 rows and 6 columns. Merge the first two columns in the second row using colspan and merge the first two rows of the third column using rowspan. The table should contain the following data: o Row 1: "Name", "Age", "Gender", "Country" o Row 2: "John Doe", 28, Male, USA o Row 3: "Jane Smith", 30, Female, Canada o Row 4: "Mike Johnson", 40, Male, UK • Set the table width to 80% of the page width and apply a background color of light gray to the header.

```
text-align: center;
   th {
     background-color: lightgray;
  </style>
</head>
<body>
 Name
     Age
     Gender
     Country
   John Doe, 28
     USA
   Jane Smith
     30
     Female
     Canada
   Mike Johnson
     40
     Male
     UK
   </body>
</html>
```



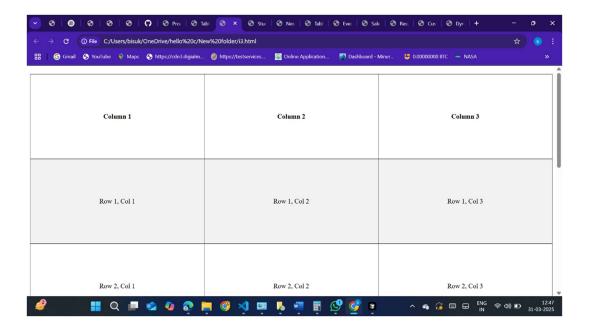
Name	Age	Gender	Country
John Doe, 28		Genuer	USA
Jane Smith	30	Female	Canada
Mike Johnson	40	Male	UK



3. 3.Create a Table with Specific Height and Width: Create a table with 5 rows and 3 columns. Set the height of the first column to 100px, the second column to 150px, and the third column to 200px. Ensure the table takes up 100% of the page width. Add alternating row colors for visual clarity.

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Table with Specific Height and Width</title>
   <style>
       table {
            width: 100%;
            border-collapse: collapse;
           margin: 20px auto;
       th, td {
            border: 1px solid black;
            text-align: center;
       /* Setting column widths */
       th:nth-child(1), td:nth-child(1) { height: 100px; }
       th:nth-child(2), td:nth-child(2) { height: 150px; }
       th:nth-child(3), td:nth-child(3) { height: 200px; }
       tr:nth-child(even) { background-color: #f2f2f2; }
       tr:nth-child(odd) { background-color: #ffffff; }
    </style>
</head>
<body>
```

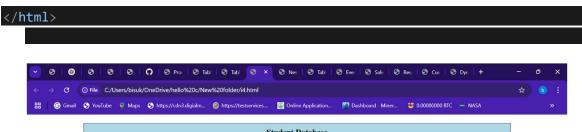
```
Column 1
      Column 2
      Column 3
    Row 1, Col 1
      Row 1, Col 2
      Row 1, Col 3
    Row 2, Col 1
      Row 2, Col 2
      Row 2, Col 3
    Row 3, Col 1
      <td>Row 3, Col 2</td>
      Row 3, Col 3
    Row 4, Col 1
      Row 4, Col 2
      Row 4, Col 3
    Row 5, Col 1
      Row 5, Col 2
      Row 5, Col 3
    </body>
</html>
```



4.Design a Table with Multiple Headers and Footers: Design a table for a student database with the following columns: "Student ID", "Name", "Subject", "Grade", "Teacher". Add multiple header rows: one for the main title and another for the column names. Also, include a footer that calculates the total number of students.

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Student Database Table</title>
    <style>
        table {
            width: 80%;
            border-collapse: collapse;
            margin: 20px auto;
            text-align: center;
        }
        th, td {
            border: 1px solid black;
            padding: 10px;
        thead tr:first-child th {
            background-color: lightblue;
            font-size: 1.2em;
        }
        thead tr:nth-child(2) th {
            background-color: #f2f2f2;
        tfoot {
            background-color: lightgray;
```

```
font-weight: bold;
   }
  </style>
</head>
<body>
  <thead>
     Student Database
     Student ID
       Name
       Subject
       Grade
       Teacher
     </thead>
   101
       John Doe
       Mathematics
       A
       Mr. Smith
     102
       Jane Smith
       Science
       B+
       Mrs. Johnson
     103
       Mike Brown
       History
       A-
       Mr. Williams
     <tfoot>
     >
       Total Students: 3
     </tfoot>
  </body>
```



Student Database						
Student ID	Name	Subject	Grade	Teacher		
101	John Doe	Mathematics	A	Mr. Smith		
102	Jane Smith	Science	B+	Mrs. Johnson		
103	Mike Brown	History	A-	Mr. Williams		
103	Mike Brown	History  Total Students: 3	1 .	A-		



4. 5.Nesting Tables with Captions: Create a table containing three rows and four columns. In one of the cells, nest another table with 2 rows and 2 columns. The nested table should have a caption that reads "Nested Table". Ensure the nested table's background color is different from the outer table.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Nesting Tables</title>
    <style>
        table {
            width: 80%;
            border-collapse: collapse;
            margin: 20px auto;
            text-align: center;
            border: 2px solid black;
        th, td {
            border: 1px solid black;
            padding: 10px;
        caption {
            font-weight: bold;
            padding: 5px;
        .outer-table {
            background-color: lightgray;
```

```
.nested-table {
      width: 100%;
      background-color: lightblue;
    }
  </style>
</head>
<body>
  <caption>Main Table</caption>
    Column 1
      Column 2
      Column 3
      Column 4
    Data 1
      Data 2
      <caption>Nested Table</caption>
          Nested 1
            Nested 2
          Nested 3
            Nested 4
          Data 3
    Data 4
      Data 5
      Data 6
    </body>
</html>
```





5. 6.Table with Background Image and Custom Cell Padding: Create a table with 4 rows and 2 columns, where each cell has a custom cellpadding of 15px. Apply a background image to the entire table (using the background attribute) and ensure the text inside the cells is readable. Include some dummy text for the cells.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Table with Background Image</title>
    <style>
        table {
            width: 80%;
            border-collapse: collapse;
            margin: 20px auto;
            text-align: center;
            border: 2px solid black;
            background-image:
url('https://source.unsplash.com/800x600/?texture'); /* Replace with your
            background-size: cover;
            background-position: center;
            color: white; /* Ensures text readability */
        th, td {
            border: 1px solid black;
            padding: 15px;
            background-color: rgba(0, 0, 0, 0.6); /* Adds transparency for
        caption {
            font-weight: bold;
```

```
padding: 5px;
        font-size: 1.2rem;
        color: white;
        background-color: black;
  </style>
</head>
<body>
  <caption>Table with Background Image</caption>
     Column 1
        Column 2
     Lorem ipsum dolor sit amet.
        Consectetur adipiscing elit.
     Vestibulum ante ipsum primis.
        In faucibus orci luctus.
     Aliquam erat volutpat.
        Donec facilisis orci.
     </body>
</html>
```

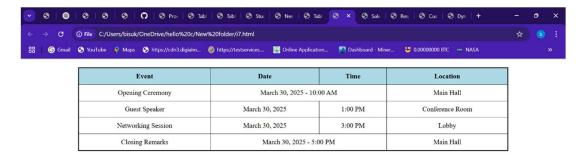


Table with Background Image				
Column 1	Column 2			
Lorem ipsum dolor sit amet.	Consectetur adipiscing elit.			
Vestibulum ante ipsum primis.	In faucibus orci luctus.			
Aliquam erat volutpat.	Donec facilisis orci.			



6. 7.Table with Multiple Column Span (Colspan): Create a table for an event schedule. The first row should have 4 columns: "Event", "Date", "Time", "Location". In the second row, merge the "Date" and "Time" columns using colspan. Ensure that the background color of the header row is light blue and the font is bold.

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Event Schedule</title>
   <style>
      table {
         width: 80%;
         border-collapse: collapse;
         margin: 20px auto;
         text-align: center;
         border: 2px solid black;
      th, td {
         border: 1px solid black;
         padding: 10px;
      }
      th {
         background-color: lightblue;
         font-weight: bold;
   </style>
</head>
<body>
   Event
         Date
         Time
         Location
      Opening Ceremony
         March 30, 2025 - 10:00 AM
         Main Hall
      Guest Speaker
         March 30, 2025
         1:00 PM
         Conference Room
```





7. 8.(optional) Table with Footer and Dynamic Content: Create a table with 6 rows and 4 columns to display the sales data of a store. Include a footer row where the total sales are calculated by summing the values in the "Sales" column. The footer should be aligned to the center and have a background color of dark gray. AKB

```
}
    th, td {
      border: 1px solid black;
      padding: 10px;
    }
    th {
      background-color: lightblue;
      font-weight: bold;
    }
    tfoot td {
      background-color: darkgray;
      font-weight: bold;
      text-align: center;
  </style>
</head>
<body>
  <thead>
      Product
         Category
         Price ($)
         Sales ($)
      </thead>
    Laptop
         Electronics
         1200
         5000
      Smartphone
         Electronics
         800
         4200
      Table
         Furniture
         300
         2100
      Shoes
         Fashion
```

```
100
          1300
       Washing Machine
          Appliances
          700
          3200
       <tfoot>
       Total Sales
          0
       </tfoot>
  <script>
     function calculateTotalSales() {
       let total = 0;
       document.querySelectorAll(".sales").forEach(cell => {
          total += parseInt(cell.innerText);
       });
       document.getElementById("totalSales").innerText = total;
     calculateTotalSales();
  </script>
</body>
</html>
```





8. 9.Responsive Table with Nested and Multi-Row Spans: Design a table that displays employee information. The first row should be for headings, while the second row should contain merged cells for "Name" and "Job Title" using rowspan. Nest a small table inside one of the cells with employee contact details. Set a maximum table width of 600px, and ensure it is responsive (adjusting based on the screen size).

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Responsive Employee Table</title>
    <style>
        table {
            width: 100%;
            max-width: 600px;
            border-collapse: collapse;
            margin: 20px auto;
            text-align: center;
            border: 2px solid black;
        }
        th, td {
            border: 1px solid black;
            padding: 10px;
        }
        th {
            background-color: lightblue;
            font-weight: bold;
        .nested-table {
            width: 100%;
            border-collapse: collapse;
            background-color: lightgray;
```

```
}
    .nested-table th, .nested-table td {
      border: 1px solid black;
       padding: 5px;
      font-size: 14px;
    @media (max-width: 600px) {
      table, th, td {
         font-size: 14px;
         padding: 5px;
      }
    }
  </style>
</head>
<body>
  <thead>
      Name
         Job Title
         Department
         Contact Info
      </thead>
    John Doe
         Software Engineer
         IT
         <caption>Contact Details</caption>
              Email
                johndoe@example.com
              Phone
                +123456789
              Development
      Jane Smith
```

```
HR Manager
      HR
      <caption>Contact Details</caption>
         Email
           janesmith@example.com
         Phone
           +987654321
         Recruitment
    </body>
</html>
```





9. 10.Table with Custom Background Color and Borders: Create a table with 5 rows and 3 columns. Set the table's background color to #f0f0f0, and apply a custom border to each cell with a 2px solid blue line. The first row should have a dark gray background and white text, while the second row should have a light green background. Apply a height of 50px to each row.

```
<!DOCTYPE html>
<html lang="en">
```

```
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Custom Table</title>
   <style>
      table {
         width: 100%;
         background-color: #f0f0f0;
         border-collapse: collapse;
         margin: 20px auto;
         text-align: center;
      }
      th, td {
         border: 2px solid blue;
         padding: 10px;
         height: 50px;
      }
      th {
         background-color: darkgray;
         color: white;
         font-weight: bold;
      tr:nth-child(2) {
         background-color: lightgreen;
   </style>
</head>
<body>
   <thead>
         Column 1
             Column 2
             Column 3
          </thead>
      Row 1, Col 1
             Row 1, Col 2
             Row 1, Col 3
          Row 2, Col 1
             Row 2, Col 2
             Row 2, Col 3
```

```
Row 3, Col 1
        Row 3, Col 2
        Row 3, Col 3
      Row 4, Col 1
        Row 4, Col 2
        Row 4, Col 3
      Row 5, Col 1
        Row 5, Col 2
        Row 5, Col 3
    </body>
</html>
```





10. 11.Table with Dynamic Row and Column Sizes: Create a table with 3 rows and 3 columns. The first column should have a fixed width of 100px, the second column should have a width of 50%, and the third column should take up the remaining space. Ensure that the first row is merged using colspan across the second and third columns. Apply specific background colors to each row (row 1: blue, row 2: yellow, row 3: pink).

```
table {
       width: 100%;
       border-collapse: collapse;
       text-align: center;
     th, td {
       border: 2px solid black;
       padding: 10px;
     .col-1 {
       width: 100px;
     }
     .col-2 {
       width: 50%;
     }
     .col-3 {
       width: auto; /* Takes remaining space */
     }
     /* Row Background Colors */
     .row-1 {
       background-color: blue;
       color: white;
     }
     .row-2 {
       background-color: yellow;
     }
     .row-3 {
       background-color: pink;
  </style>
</head>
<body>
  Column 1
        Merged Header (Columns 2 & 3)
     Row 2, Col 1
       Row 2, Col 2
       Row 2, Col 3
     Row 3, Col 1
       Row 3, Col 2
       Row 3, Col 3
```



