

WEB PROGRAMMING LAB EXERCISE-HTML [TABLES]

Lab assignment questions focused on HTML elements like , , , etc:

1. E-Commerce Product Table

Create a product table for an e-commerce website:

- Columns: Product ID, Name, Category, Price, Discount, Final Price.
- Calculate the "Final Price" as Price (Price × Discount).
- Highlight products in different categories with unique background colors.

Bonus Challenge:

 Add a column with a star rating (1 to 5 stars) using special characters or Unicode symbols (e.g., ★).

Sample Answer to Q1.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>E-Commerce Product Table</title>
</head>
<body>
  <h1>E-Commerce Product List</h1>
  <caption><strong>Product Details</strong></caption>
    <thead>
         Product ID
         <th>Name
         Category
         Price ($)
         <th>Discount (%)
         Final Price ($)
         <th>Rating
       </thead>
    <t body>
        101 
         Wireless Mouse
         Electronics
          25.00 
         < t d>10 < / t d>
          22.50 
         ★★★☆
       < t d > 102 < / t d >
         Coffee Mug
         Kitchen
          15.00 
          5 
          14.25 
         ★★☆☆
        103 
         Office Chair
```

```
Vellore Institute of Technology
                        (Deemed to be University under section 3 of UGC Act, 1956)
          Furniture
           150.00 
          < t d > 20 < / t d >
          < t d > 120.00 < / t d >
          *****
        < t d > 104 < / t d >
          Desk Lamp
          Electronics
           30.00 
          < t d > 15 < / t d >
           25.50 
          ★★★☆
       < t d > 105 < / t d >
          Water Bottle
          Kitchen
          12.00
          <td>>10</td>
          < t d > 10.80 < / t d >
          ★★☆☆
        </tbody>
     <t foot>
          <strong>Total Products: 5</strong>//td>
        </tfoot>
  </body>
```

Output:

</html>



E-Commerce Product List

Product Details

Product ID	Name	Category	Price (\$)	Discount (%)	Final Price (\$)	Rating
101	Wireless Mouse	Electronics	25.00	10	22.50	★★★☆
102	Coffee Mug	Kitchen	15.00	5	14.25	***
103	Office Chair	Furniture	150.00	20	120.00	****
104	Desk Lamp	Electronics	30.00	15	25.50	★★★☆
105	Water Bottle	Kitchen	12.00	10	10.80	***
Total Products: 5						

2. Multi-Level Organization Chart

Design a table to display a company's organization hierarchy:

- Rows: Departments (e.g., HR, Engineering, Marketing).
- Columns: Department Name, Manager, Number of Employees.
- Use <colspan> and <rowspan> to merge cells for common data (e.g., multiple managers in a department).



Bonus Challenge:

• Add a column showing each department's budget and the percentage of the total company budget.

3. Calendar Table

Create a monthly calendar using a table:

- Rows: Weeks.
- Columns: Days (Monday to Sunday).
- Highlight the current date using the bgcolor attribute.

Bonus Challenge:

• Add a column to display holidays with specific icons (e.g., ** for events).

4. Flight Schedule Table

Design a flight schedule table for an airline:

- Columns: Flight Number, Destination, Departure Time, Arrival Time, Duration.
- Highlight rows where the destination is international with a unique background color.
- Add a column to indicate the flight status (On Time, Delayed, or Cancelled).

Bonus Challenge:

• Use <abbr> in the "Duration" column to display the duration in hours and minutes with a tooltip.

5. Grade Report Table

Build a grade report table for a class:

- Columns: Student ID, Name, Subjects (Math, Science, English), and Total Marks.
- Use rowspan> to merge cells for students who scored the same total marks.
- Highlight the top 3 students using bold text or different background colors.

Bonus Challenge:

• Add a footer row displaying the class average for each subject.



6. Sales Report Table

Create a sales report table for a company:

- Columns: Region, Salesperson, Product, Quantity Sold, Unit Price, Total Sales.
- Calculate the "Total Sales" as Quantity × Unit Price.
- Highlight regions with the highest sales using bold text or a different background color.

Bonus Challenge:

• Add a footer displaying the grand total of all sales.

7. Timetable for a Conference

Design a conference timetable:

- Rows: Time slots.
- Columns: Room Names.
- Use <colspan> for combined sessions and <rowspan> for long-duration sessions.
- Add a legend explaining the color codes for different session types (e.g., keynote, workshop).

Bonus Challenge:

• Include speaker names and session descriptions in tooltips using the title attribute.

8. Nested Table for Exam Schedule

Create a table displaying an exam schedule:

- Main table: Rows for dates and columns for time slots.
- Nested tables inside each cell to list subjects and their corresponding durations.
- Use different background colors for theoretical and practical exams.

Bonus Challenge:

• Add a column indicating the total number of exams on each date.

9. Restaurant Menu Table

Build a restaurant menu using a table:



- Columns: Dish Name, Category (Appetizer, Main Course, Dessert), Ingredients, Price.
- Use <rowspan> for dishes with similar ingredients across categories.

Bonus Challenge:

• Add a column for customer ratings using symbols (e.g., \star).

10. Sports League Table

Create a league table for a sports tournament:

- Columns: Team Name, Matches Played, Wins, Losses, Draws, Points.
- Sort the rows by points in descending order.
- Highlight the top 3 teams with bold text or a unique background color.

Bonus Challenge:

 Add a footer row displaying the total number of matches played by all teams combined

Extra Challenges

- 1. Use <colgroup> to group columns with similar data (e.g., numerical data).
- 2. Use <caption> to provide a meaningful title for each table.
- 3. Ensure accessibility by adding scope, id, and headers attributes to table elements.