

2400030009-SkillEndSemExam

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<!DOCTYPE html>

<html>
<head>
    <title>Student Marks Table with Sorting & Filtering</title>
    <style>
        table {
            width: 70%;
            border-collapse: collapse;
            margin-top: 20px;
        }
        th, td {
            border: 1px solid black;
            padding: 10px;
            text-align: center;
        }
        th {
            cursor: pointer;
            background-color: #e0e0e0;
        }
    </style>
</head>
<body>

    <h2>Student Marks Table</h2>

    <label>Filter by Subject:</label>
    <select id="subjectFilter" onchange="filterTable()">
        <option value="All">All</option>
        <option value="Maths">Maths</option>
        <option value="Science">Science</option>
        <option value="English">English</option>
    </select>
</body>
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</select>

<label>Marks Range:</label>
<input type="number" id="minMark" placeholder="Min"> -
<input type="number" id="maxMark" placeholder="Max">
<button onclick="filterTable()">Apply</button>

<table id="studentTable">
  <thead>
    <tr>
      <th onclick="sortTable(0)">Name</th>
      <th onclick="sortTable(1)">Subject</th>
      <th onclick="sortTable(2)">Marks</th>
    </tr>
  </thead>
  <tbody id="tableBody"></tbody>
</table>

<script>
const students = [
  { name: "Arjun", subject: "Maths", marks: 89 },
  { name: "Ram", subject: "Science", marks: 76 },
  { name: "Rekha", subject: "English", marks: 92 },
  { name: "Sita", subject: "Maths", marks: 65 },
  { name: "Kiran", subject: "Science", marks: 80 }
];

function loadTable(data) {
  const tableBody = document.getElementById("tableBody");
  tableBody.innerHTML = "";
  data.forEach(st => {
    tableBody.innerHTML += `
      <tr>
        <td>${st.name}</td>
        <td>${st.subject}</td>
    `);
  });
}

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<td>${st.marks}</td>
</tr>';
});

}

loadTable(students);

function sortTable(column) {
  let sorted = [...students].sort((a, b) => {
    let A = Object.values(a)[column], B = Object.values(b)[column];
    return A > B ? 1 : -1;
  });
  loadTable(sorted);
}

function filterTable() {
  let subject = document.getElementById("subjectFilter").value;
  let min = document.getElementById("minMark").value;
  let max = document.getElementById("maxMark").value;

  let filtered = students.filter(st => {
    return (subject === "All" || st.subject === subject) &&
      (!min || st.marks >= min) &&
      (!max || st.marks <= max);
  });
  loadTable(filtered);
}

</script>

</body>
</html>

```

Student Marks Table

Filter by Subject: All Marks Range: -

Name	Subject	Marks
Arjun	Maths	89
Ram	Science	76
Rekha	English	92
Sita	Maths	65
Kiran	Science	80