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<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>COVID-19 Data Analysis Dashboard</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 0;
      padding: 20px;
      background-color: #f4f4f4;
      color: #333;
    }

    .container {
      max-width: 1200px;
      margin: auto;
      background: #fff;
      padding: 20px;
      border-radius: 8px;
      box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
    }

    h1 {
      text-align: center;
      color: #0056b3;
    }

    .dashboard-grid {
      display: grid;
      grid-template-columns: repeat(auto-fit, minmax(250px, 1fr));
      gap: 20px;
      margin-top: 20px;
    }

    .card {
      background: #e9e9e9;
      padding: 20px;
      border-radius: 8px;
      text-align: center;
      box-shadow: 0 2px 4px rgba(0, 0, 0, 0.05);
    }

    .card h2 {
      margin-top: 0;
      font-size: 1em;
      color: #555;
    }
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}

.card .data-number {
  font-size: 2.5em;
  font-weight: bold;
  color: #007bff;
}

/* You can add more styles for charts and tables here */
.chart-container {
  width: 100%;
  height: 400px;
  margin-top: 20px;
  border: 1px solid #ccc;
  border-radius: 8px;
  background: #fdfdfd;
  text-align: center;
  display: flex;
  align-items: center;
  justify-content: center;
  color: #888;
}

.data-table {
  width: 100%;
  border-collapse: collapse;
  margin-top: 20px;
}

.data-table th, .data-table td {
  border: 1px solid #ddd;
  padding: 8px;
  text-align: left;
}

.data-table th {
  background-color: #007bff;
  color: white;
}
</style>
</head>
<body>

<div class="container">
  <h1>Global COVID-19 Data Dashboard</h1>
  <p style="text-align: center; color: #777;">Data as of <span
id="last-updated">--/--/----</span></p>

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<divclass="dashboard-grid">
  <divclass="card total-cases">
    <h2>Total Confirmed Cases</h2>
    <divclass="data-number" id="total-cases-data">Loading...</div>
  </div>
  <divclass="card total-deaths">
    <h2>Total Deaths</h2>
    <divclass="data-number" id="total-deaths-data">Loading...</div>
  </div>
  <divclass="card total-recovered">
    <h2>Total Recovered</h2>
    <divclass="data-number" id="total-recovered-data">Loading...</div>
  </div>
  <divclass="card active-cases">
    <h2>Active Cases</h2>
    <divclass="data-number" id="active-cases-data">Loading...</div>
  </div>
</div>

<divclass="chart-container">
  <canvasid="cases-chart"></canvas>
  <p>Historical trends chart will be rendered here with JavaScript.</p>
</div>

<h2>Data by Country</h2>
<tableclass="data-table">
  <thead>
    <tr>
      <th>Country</th>
      <th>Confirmed Cases</th>
      <th>Deaths</th>
      <th>Recovered</th>
    </tr>
  </thead>
  <tbodyid="country-data-body">
    <tr><td colspan="4" style="text-align: center;">Loading data...</td></tr>
  </tbody>
</table>

</div>

<script>
  //This is where you would write JavaScript to fetch data from an API.
  //For example, using the 'fetch' API:

  //Example of a data API (this is a placeholder, you need to find a live one)
  const API_URL = 'https://some-covid-data-api.com/v1/latest';

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// Function to fetch and display data
async function fetchCOVIDData() {
  try{
    // Fetch data from a real API
    // const response = await fetch(API_URL);
    // const data = await response.json();

    // Placeholder data since we can't fetch from a real API
    const data = {
      totalCases: 650000000,
      totalDeaths: 6800000,
      totalRecovered: 600000000,
      lastUpdated: 'September 19, 2025',
      countries: [
        {name:'USA',confirmed:105000000,deaths:1100000, recovered:
103000000 },
        {name:'India',confirmed:45000000,deaths:532000, recovered: 44000000
},
        {name:'Brazil',confirmed:38000000,deaths:700000, recovered: 37000000
}
      ]
    };

    // Update the dashboard with the fetched data
    document.getElementById('total-cases-data').textContent =
data.totalCases.toLocaleString();
    document.getElementById('total-deaths-data').textContent =
data.totalDeaths.toLocaleString();
    document.getElementById('total-recovered-data').textContent =
data.totalRecovered.toLocaleString();
    document.getElementById('active-cases-data').textContent = (data.totalCases -
data.totalDeaths - data.totalRecovered).toLocaleString();
    document.getElementById('last-updated').textContent=data.lastUpdated;

    // Populate the country data table
    const tableBody=document.getElementById('country-data-body');
    tableBody.innerHTML = ""; // Clear previous data
    data.countries.forEach(country => {
      const row = document.createElement('tr');
      row.innerHTML = `
        <td>${country.name}</td>
        <td>${country.confirmed.toLocaleString()}</td>
        <td>${country.deaths.toLocaleString()}</td>
        <td>${country.recovered.toLocaleString()}</td>
      `;
      tableBody.appendChild(row);
    });
  }
}

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    }catch (error) {
        console.error('Error fetching COVID-19 data:', error);
        document.getElementById('total-cases-data').textContent = 'Data Unavailable';
        document.getElementById('total-deaths-data').textContent = 'Data Unavailable';
        document.getElementById('total-recovered-data').textContent = 'Data Unavailable';
        document.getElementById('active-cases-data').textContent = 'Data Unavailable';
        document.getElementById('country-data-body').innerHTML = `<tr><td colspan="4"
style="text-align: center; color: red;">Failed to load data. Please try again later.</td></tr>`;
    }
}

//Callthe function when the page loads
document.addEventListener('DOMContentLoaded', fetchCOVIDData);
</script>

</body>
</html>

```