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Week 1

A1. Create the following output in HTML

Country	Population (in Crores)	
INDIA	1998	85
	1999	90
	2000	100
USA	1998	30
	1999	35
	2000	40
UK	1998	25
	1999	30
	2000	35

HTML:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Table</title>
<link rel="stylesheet" href="additional.css">
<script defer src="additional.js"></script>
</head>
<body>
<table>
<tr>
<th>Country</th>
<th>Year</th>
<th>Population (in crores)</th>
```

```

</tr>
<tr>
<td class="country" rowspan="3">INDIA</td>
<td class="year">1998</td>
<td class="population">85</td>
</tr>
<tr>
<td class="year">1999</td>
<td class="population">90</td>
</tr>
<tr>
<td class="year">2000</td>
<td class="population">100</td>
</tr>
<tr>
<td class="country" rowspan="3">USA</td>
<td class="year">1998</td>
<td class="population">30</td> </tr>
<tr>
<td class="year">1999</td>
<td class="population">35</td> </tr>
<tr>
<td class="year">2000</td>
<td class="population">40</td> </tr>
<tr>
<td class="country" rowspan="3">UK</td> <td
class="year">1998</td>
<td class="population">25</td> </tr>
<tr>
<td class="year">1999</td>
<td class="population">30</td> </tr>
<tr>
<td class="year">2000</td>
<td class="population">35</td> </tr>
</table>
</body>
</html>

```

CSS:

```

table{
border-collapse: collapse;
width: 500px;

```

```

text-align: center;
font-family: Arial, Helvetica, sans-serif; }

th, td{
border: 2px solid black;
padding: 8px;
}

th{
background-color: red;
color: black;
}

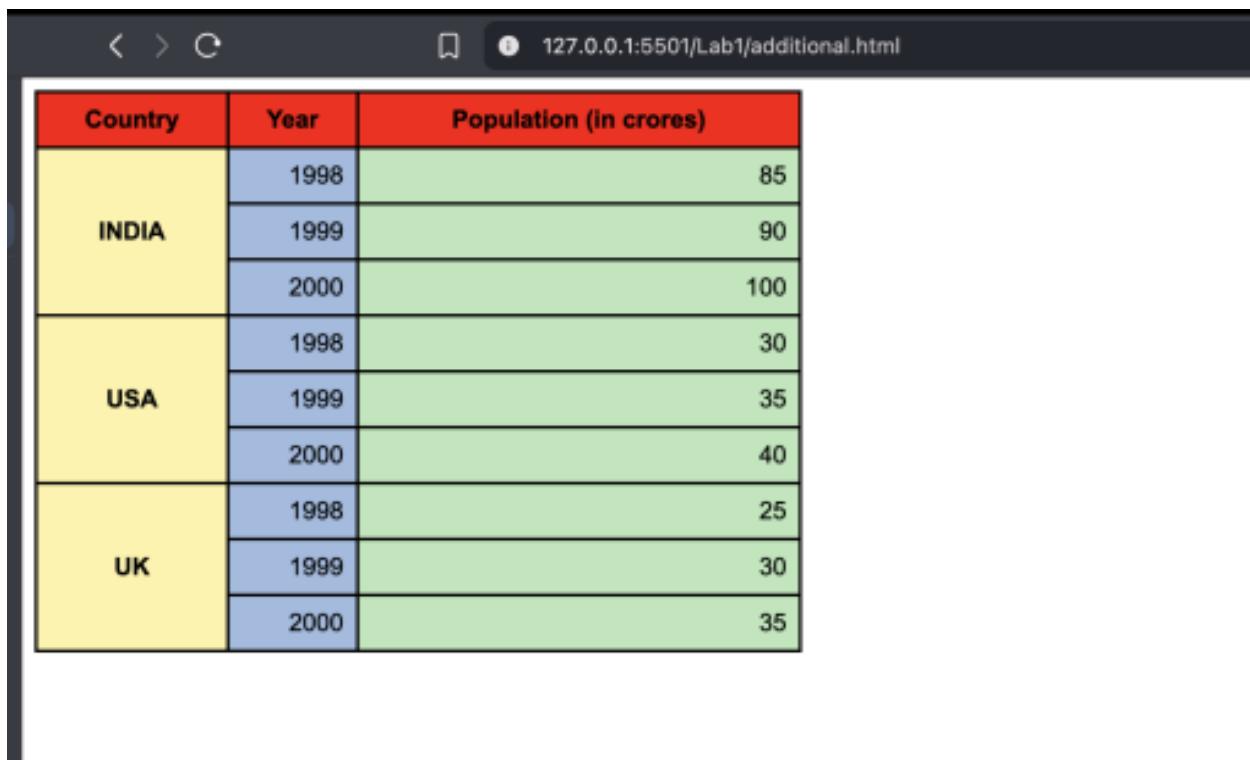
.country{
background-color: #fff2a8;
font-weight: bold;
}

.year{
background-color: #9fbce0;
text-align: right;
}

.population{
background-color: #b9e6b9;
text-align: right;
}

```

Output:



The screenshot shows a web browser window with the URL 127.0.0.1:5501/Lab1/additional.html. The page displays a table with three rows, each representing a country: INDIA, USA, and UK. Each country row contains three data points corresponding to the years 1998, 1999, and 2000. The table has a red header row and light blue data rows.

Country	Year	Population (in crores)
INDIA	1998	85
	1999	90
	2000	100
USA	1998	30
	1999	35
	2000	40
UK	1998	25
	1999	30
	2000	35

A2. Create an array of JavaScript objects for the data in question 1 and display each row in the table form through JavaScript code

HTML:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Table</title>
<link rel="stylesheet" href="additional.css">
<script defer src="additional.js"></script>
</head>
<body>
<table id="poptable">
<tr>
<th>Country</th>
<th>Year</th>
<th>Population (in crores)</th>
</tr>
</table>
</body>
</html>
```

CSS:

```
table{
border-collapse: collapse;
width: 500px;
text-align: center;
font-family: Arial, Helvetica, sans-serif; }
th, td{
border: 2px solid black;
padding: 8px;
}
th{
background-color: red;
color: black;
}
.country{
background-color: #fff2a8;
```

```

    font-weight: bold;
}
.year{
background-color: #9fbce0;
text-align: right;
}
.population{
background-color: #b9e6b9;
text-align: right;
}

```

JS:

```

const data = [
{country: "INDIA", year: 1998, population: 85},
{country: "INDIA", year: 1999, population: 90},
{country: "INDIA", year: 2000, population: 100},
{country: "USA", year: 1998, population: 30},
{country: "USA", year: 1999, population: 35},
{country: "USA", year: 2000, population: 40},
{country: "UK", year: 1998, population: 25},
{country: "UK", year: 1999, population: 30},
{country: "UK", year: 2000, population: 35} ];
let rows = "";
for(let i = 0; i < data.length; i++){
    rows += "<tr>";
    if(i % 3 === 0){
        rows += `<td class="country" rowspan="3">${data[i].country}</td>`;
    }
    rows += `<td class="year">${data[i].year}</td><td
class="population">${data[i].population}</td>`;
    rows += `</tr>`;
}
document.getElementById("poptable").innerHTML += rows;
Output:

```

A screenshot of a web browser window displaying a table. The URL in the address bar is 127.0.0.1:5501/Lab1/additional.html. The table has a red header row with columns for Country, Year, and Population (in crores). The data rows show population figures for three countries across three years: India (1998: 85, 1999: 90, 2000: 100), USA (1998: 30, 1999: 35, 2000: 40), and UK (1998: 25, 1999: 30, 2000: 35).

Country	Year	Population (in crores)
INDIA	1998	85
	1999	90
	2000	100
USA	1998	30
	1999	35
	2000	40
UK	1998	25
	1999	30
	2000	35