

문제 1

2022-10-19

```
import React from 'react';
import ReactDOM from 'react-dom/client';
import App from './App';
import { BrowserRouter } from 'react-router-dom'
import Meta from './Meta';

const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(
  <React.StrictMode>
    <Meta />
    <BrowserRouter><App /></BrowserRouter>
  </React.StrictMode>
);
```

```
import React from 'react';  
import { Link, Routes, Route } from 'react-router-dom';  
import GradeTable from './pages/GradeTable';  
  
function App() {  
  return (  
    <div>  
      <h1>성적표</h1>  
      <nav>  
        <Link to='/grade_table/1'>1학년</Link>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
        <Link to='/grade_table/2'>2학년</Link>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
        <Link to='/grade_table/3'>3학년</Link>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
        <Link to='/grade_table/4'>4학년</Link>  
      </nav>  
  
      <br />  
      <Routes>
```

```

        <Route path="/grade_table/:id" element={<GradeTable />} />
      </Routes>
    </div>
  );
}

export default App;

```

Meta.js

```

import React from 'react';
import { Helmet, HelmetProvider } from 'react-helmet-async';

const Meta = (props) => {
  return (
    <HelmetProvider>
      <Helmet>
        <meta charset = 'utf-8' />
        <title>{props.title}</title>
        <meta name='description' content={props.description} />

      </Helmet>
    </HelmetProvider>
  )
}

Meta.defaultProps = {
  title: 'React 연습문제',
  description: 'React.js 예제 입니다',
}

export default Meta;

```

GradeTable.js

```

import React from 'react';
import Meta from '../Meta';
import { useParams } from 'react-router-dom';
import GradeData from '../GradeData';
import GradeItem from '../components/GradeItem';

const GradeTable = () => {
  console.clear();
  const params = useParams();
  const { id } = params;

```

```

const title = `${id}학년::: React 연습문제`;

return (
  <div>
    <Meta title = {title} />

    <table border="1" cellPadding="7">
      <thead>
        <tr align="center">
          <th>이름</th>
          <th>성별</th>
          <th>국어</th>
          <th>영어</th>
          <th>수학</th>
          <th>과학</th>
          <th>총점</th>
          <th>평균</th>
        </tr>
      </thead>
      <tbody>
        {GradeData[`${id}학년`].map((v, i) => {
          return (
            <GradeItem
              key={i}
              name = {v.이름}
              gen = {v.성별}
              kor = {v.국어}
              eng = {v.영어}
              math = {v.수학}
              sinc = {v.과학}
            </GradeItem>
          )
        })}
      </tbody>
    </table>

  </div>
)
}

export default GradeTable;

```

GradeItem.js

```

import React from 'react';
import PropTypes from 'prop-types';

const GradeItem = ({name, gen, kor, eng, math, sinc}) => {

```

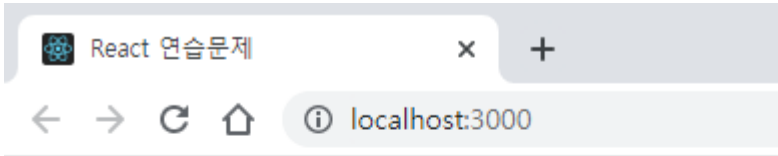
```
const sum = parseInt(kor + eng + math + sinc);
const avg = parseInt(sum / 4);

return (
  <tr align="center">
    <td><strong>{name}</strong></td>
    <td>{gen}</td>
    <td>{kor}</td>
    <td>{eng}</td>
    <td>{math}</td>
    <td>{sinc}</td>
    <td><strong>{sum}</strong></td>
    <td><strong>{avg}</strong></td>
  </tr>
)
}

GradeItem.propTypes = {
  name: PropTypes.string.isRequired,
  level: PropTypes.number.isRequired,
  sex: PropTypes.string.isRequired
}

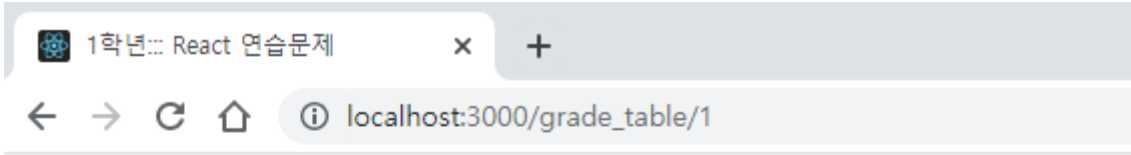
GradeItem.defaultProps = {
  kor: 0,
  eng: 0,
  math: 0,
  sinc: 0
}

export default GradeItem;
```



성적표

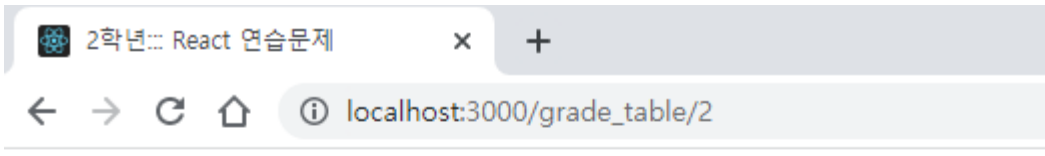
[1학년](#) | [2학년](#) | [3학년](#) | [4학년](#)



성적표

[1학년](#) | [2학년](#) | [3학년](#) | [4학년](#)

이름	성별	국어	영어	수학	과학	총점	평균
철수	남자	98	78	88	64	328	82
민수	남자	92	70	76	78	316	79



성적표

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이름	성별	국어	영어	수학	과학	총점	평균
영희	여자	88	78	62	72	300	75
하영	여자	78	0	83	91	252	63
철호	남자	91	98	82	76	347	86

3학년 React 연습문제

localhost:3000/grade_table/3

성적표

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이름	성별	국어	영어	수학	과학	총점	평균
수현	여자	63	60	61	0	184	46
철희	남자	82	88	80	85	335	83
민희	남자	95	81	90	70	336	84
수진	남자	91	90	95	82	358	89

4학년 React 연습문제

localhost:3000/grade_table/4

성적표

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이름	성별	국어	영어	수학	과학	총점	평균
호영	남자	88	50	0	88	226	56