

연습문제 04-1 폴이

index.js

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

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

App.js

```
import React from 'react';
import { Link, Routes, Route } from 'react-router-dom';

import GradeTable from './pages/GradeTable';
import Meta from './components/Meta';

const App = () => {
  return (
    <div>
      <Meta />
      <h1>성적표</h1>
      <nav>
        <Link to="/grade_table/1">1학년</Link>&nbsp;|&nbsp;&nbsp;
        <Link to="/grade_table/2">2학년</Link>&nbsp;|&nbsp;&nbsp;
        <Link to="/grade_table/3">3학년</Link>&nbsp;|&nbsp;&nbsp;
        <Link to="/grade_table/4">4학년</Link>
      </nav>
      <hr />

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

export default App;
```

/pages/GradeTable.js

```

import React from 'react';

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

const GradeTable = () => {

  // URL을 통해 전달된 path 파라미터 추출
  const {level} = useParams();

  // 파라미터를 활용하여 JSON의 key이름 조합
  const key = `${level}학년`;

  // JSON에서 필요한 데이터 추출
  const currentData = GradeData[key];

  return (
    <div>
      <Meta title={` ${key} :: React 연습문제` } />

      <h2>{key}</h2>
      <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>
          {currentData.map((v, i) => {
            return (<GradeItem
              key={i}
              name={v.이름}
              sex={v.성별}
              kor={v.국어}
              eng={v.영어}
              math={v.수학}
              sinc={v.과학} />)

          })}
        </tbody>
      </table>
    </div>
  );
}

```

```

        </table>
      </div>
    );
  };

  export default GradeTable;

```

/components/Meta.js

```

import React from 'react';
import { Helmet } from 'react-helmet';

const Meta = (props) => {
  return (
    <Helmet>
      <meta charset='utf-8' />
      <title>{props.title}</title>
      {/* SEO 태그 */}
      <meta name='description' content={props.description} />
      <meta name='keywords' content={props.keywords} />
      <meta name='author' content={props.author} />
      <meta property='og:type' content='website' />
      <meta property='og:title' content={props.title} />
      <meta property='og:description' content={props.description} />
      <meta property='og:url' content={props.url} />
    </Helmet>
  );
};

Meta.defaultProps = {
  title: 'React 연습문제',
  description: 'React 연습문제 입니다.',
  keywords: 'React',
  author: '호쌤',
  url: window.location.href
};

export default Meta;

```

/components/GradeItem.js

```

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

const GradeItem = ({name, level, sex, 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>{sex}</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,
  sex: PropTypes.string.isRequired
};

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

export default GradeItem;
```