

연별 교통사고 현황

구현 코드

index.js

```
import React from "react";
import ReactDOM from "react-dom/client";
import App from "./App";
import { Provider } from "react-redux";
import store from "./Store";

const root = ReactDOM.createRoot(document.getElementById("root"));
root.render(
  <React.StrictMode>
    <Provider store={store}>
      <App />
    </Provider>
  </React.StrictMode>
);
```

App.js

```
import React, { memo } from 'react';
import CarCrash from './pages/CarCrash';

const App = memo(() => {
  return (
    <CarCrash />
  );
});

export default App;
```

Store.js

CarCrashSlice.js

```
import { createSlice, createAsyncThunk } from "@reduxjs/toolkit";
import axios from 'axios';

export const getList = createAsyncThunk('carCrash/getList', async (payload, {
  rejectWithValue }) => {

  let result = null;
  try {
    result = await axios.get('http://localhost:3001/traffic_acc', {
      params: payload
    });
    if (result.data.faultInfo !== undefined) {
      const err = new Error();
      err.response = {status: 500, statusText: result.data.faultInfo.message};
      throw err;
    }
  } catch (err) {
    result = rejectWithValue(err.response);
  }

  return result;
});

const CarCrashSlice = createSlice({
  name: 'carCrash',
  initialState: {
    data: null,
    loading: false,
    error: null
  },
  reducers: {},
  extraReducers: {
    [getList.pending]: (state, { payload }) => {
      return { ...state, loading: true }
    },
    [getList.fulfilled]: (state, { payload }) => {
      return {
        data: payload?.data,
        loading: false,
        error: null
      }
    },
    [getList.rejected]: (state, { payload }) => {
      return {
        data: payload?.data,
        loading: false,
        error: {
          code: payload?.status ? payload.status : 500,
          message: payload?.statusText ? payload.statusText : 'Server Error'
        }
      }
    }
  }
});
```

```
});

export default CarCrashSlice.reducer;
```

CarCrash.js

```
import React, { memo, useCallback, useState } from "react";
import Spinner from "../components/Spinner";
import Table from "../components/Table";
import ErrorView from "../components/ErrorView";

import { useDispatch, useSelector } from "react-redux";
import { getList } from "../slices/CarCrashSlice";

const CarCrash = memo(() => {
  React.useEffect(() => console.clear(), []);

  const { data, loading, error } = useSelector((state) => state.carCrash);
  const dispatch = useDispatch();

  const [year, setYear] = useState();

  React.useEffect(() => {
    dispatch(getList({ year: year }));
  }, [dispatch, year]);

  const selectYear = useCallback((e) => {
    e.preventDefault();
    const current = e.target;
    const value = current[current.selectedIndex].value;
    setYear(value);
  }, []);

  return (
    <div>
      <Spinner visible={loading} />
      <h1>Redux 연별 교통사고 현황</h1>
      <hr />
      <select name="year" onChange={selectYear}>
        <option value="">-- 년도 선택 --</option>
        {[...new Array(2018 - 2005 + 1)].map((v, i) => <option key={i} value={2005
+ i}>{2005 + i}년도</option>)}
      </select>
      <hr />
      {error ? (
        <ErrorView error={error} />
      ) : (
        <Table>
          <thead>
            <tr>
              <th>번호</th>
```

```

        <th>년도</th>
        <th>월</th>
        <th>교통사고 건수</th>
        <th>사망자 수</th>
        <th>부상자 수</th>
      </tr>
    </thead>
    <tbody>
      {data &&
        data.map(({ id, year, month, accident, death, injury }) => {
          return (
            <tr key={id}>
              <td>{id}</td>
              <td>{year}</td>
              <td>{month}</td>
              <td>{accident}</td>
              <td>{death}</td>
              <td>{injury}</td>
            </tr>
          );
        })}
    </tbody>
    <tfoot>
      <tr>
        <th colspan={3}>합계</th>
        <th>{data && data.map((v) => v.accident).reduce((p, c) => p + c,
0).toLocaleString()}건</th>
        <th>{data && data.map((v) => v.death).reduce((d, c) => d + c,
0).toLocaleString()}명</th>
        <th>{data && data.map((v) => v.injury).reduce((d, c) => d + c,
0).toLocaleString()}명</th>
      </tr>
    </tfoot>
  </Table>
)}
</div>
);
});

export default CarCrash;

```

구현 결과

Redux 연별 교통사고 현황

--년도 선택-->						
번호	년도	월	교통사고 건수	사망자 수	부상자 수	
1	2005	1	15494	504	25413	
2	2005	2	13244	431	21635	
3	2005	3	16580	477	25550	
4	2005	4	17817	507	28131	
5	2005	5	19085	571	30808	

연도	연도	연도	연도	연도	연도
6	2005	6	18092	476	28594
7	2005	7	18675	528	29984
8	2005	8	19035	562	31603
9	2005	9	18759	577	29831
10	2005	10	19757	639	31597
11	2005	11	19129	574	30337
12	2005	12	18504	530	29750
13	2006	1	14971	420	24533
14	2006	2	14270	373	22903
15	2006	3	16767	465	26013
16	2006	4	17948	469	28725
17	2006	5	19140	531	30279
18	2006	6	17435	455	27032
19	2006	7	18634	516	29978
20	2006	8	18794	585	30882
21	2006	9	19293	580	30186
22	2006	10	19100	651	30715
23	2006	11	19877	701	31270
24	2006	12	17516	581	27713
25	2007	1	14914	468	23975
26	2007	2	14696	446	23717
27	2007	3	18166	476	28811
28	2007	4	18055	460	28555
29	2007	5	19264	516	30532
30	2007	6	18310	538	28662
31	2007	7	18037	503	28676
32	2007	8	17982	512	29711
33	2007	9	18506	532	29583
34	2007	10	19026	582	29802
35	2007	11	17815	565	27674
36	2007	12	16891	568	26208
37	2008	1	14741	444	23522
38	2008	2	14176	428	23282
39	2008	3	16752	502	26284
40	2008	4	17498	476	27364
41	2008	5	19515	493	30935
42	2008	6	18824	423	28872
43	2008	7	19562	452	30553
44	2008	8	18545	529	29705
45	2008	9	18023	502	27894
46	2008	10	19926	574	30882
47	2008	11	19597	528	30585
48	2008	12	18663	519	29084
49	2009	1	16532	475	27373
50	2009	2	15502	405	24429
51	2009	3	18224	468	27967
52	2009	4	19153	439	29521
53	2009	5	20237	519	31743
54	2009	6	19249	433	29084
55	2009	7	20281	454	31545
56	2009	8	19993	514	32200
57	2009	9	21004	500	31700
58	2009	10	21440	592	33255
59	2009	11	20156	522	31062
60	2009	12	20219	517	31996
61	2010	1	17124	438	27655
62	2010	2	15803	406	24968
63	2010	3	17801	396	27350
64	2010	4	18386	395	28191
65	2010	5	20372	447	31521
66	2010	6	18910	474	28311
67	2010	7	18965	453	29577
68	2010	8	19383	410	31032
69	2010	9	19439	436	30470
70	2010	10	21575	619	33282
71	2010	11	20271	541	30907
72	2010	12	18849	490	29194
73	2011	1	16454	395	25611
74	2011	2	14208	339	22493
75	2011	3	16832	338	25371
76	2011	4	18570	429	28534
77	2011	5	19414	393	29906

78	2011	6	18505	415	28469
79	2011	7	19253	462	29576
80	2011	8	18896	472	30034
81	2011	9	19065	474	29055
82	2011	10	20952	520	32133
83	2011	11	20283	514	30917
84	2011	12	19279	478	29292
85	2012	1	16818	418	26281
86	2012	2	16656	393	25998
87	2012	3	18255	403	27899
88	2012	4	19372	483	29628
89	2012	5	19672	444	30163
90	2012	6	18854	476	28314
91	2012	7	19333	416	29642
92	2012	8	18407	409	29051
93	2012	9	19234	486	29462
94	2012	10	19557	533	29759
95	2012	11	19750	508	30054
96	2012	12	17748	423	28314
97	2013	1	16016	389	25094
98	2013	2	14187	335	22255
99	2013	3	17465	409	26461
100	2013	4	18031	380	27795
101	2013	5	19686	420	29676
102	2013	6	18329	436	27673
103	2013	7	18441	444	28387
104	2013	8	18691	412	29190
105	2013	9	17806	430	26938
106	2013	10	19797	499	29507
107	2013	11	19396	479	28986
108	2013	12	17509	459	26749
109	2014	1	15905	389	24328
110	2014	2	14061	325	21501
111	2014	3	16420	358	27714
112	2014	4	18443	341	27323
113	2014	5	20314	398	30684
114	2014	6	18530	367	27740
115	2014	7	19649	407	29596
116	2014	8	19603	359	30633
117	2014	9	19243	445	29052
118	2014	10	20760	470	31199
119	2014	11	19872	476	29525
120	2014	12	18752	427	28202
121	2015	1	16902	381	25887
122	2015	2	14939	296	22999
123	2015	3	18616	378	27921
124	2015	4	19386	354	29431
125	2015	5	20543	389	31264
126	2015	6	18649	390	27469
127	2015	7	20278	359	30409
128	2015	8	19864	405	30618
129	2015	9	20811	387	31256
130	2015	10	21587	470	32436
131	2015	11	21170	410	31773
132	2015	12	19290	402	28937
133	2016	1	17067	336	26323
134	2016	2	15664	292	24021
135	2016	3	17946	310	26609
136	2016	4	19452	353	29216
137	2016	5	19554	347	29172
138	2016	6	17977	321	26668
139	2016	7	18955	358	28586
140	2016	8	18398	336	28017
141	2016	9	17883	375	26761
142	2016	10	19918	440	29635
143	2016	11	19234	416	28520
144	2016	12	18869	408	28192
145	2017	1	16970	353	26099
146	2017	2	14832	280	22323
147	2017	3	17047	295	25046
148	2017	4	17717	293	26530
149	2017	5	18502	366	27268
150	2017	6	18047	315	26454

151	2017	7	18158	357	27362
152	2017	8	18682	353	28162
153	2017	9	19891	419	29371
154	2017	10	18863	420	28698
155	2017	11	19377	379	28472
156	2017	12	18249	355	27044
157	2018	1	17026	304	25438
158	2018	2	16208	275	24630
159	2018	3	17022	310	25015
160	2018	4	17992	303	26643
161	2018	5	18636	309	27834
162	2018	6	18082	266	26574
163	2018	7	18699	315	28104
164	2018	8	18335	357	27749
165	2018	9	18371	348	27751
166	2018	10	19738	373	28836
167	2018	11	19029	298	28000
168	2018	12	18010	323	26463
합계			3,084,976건	73,436명	4,751,813명

Redux 연별 교통사고 현황

2010년도 ▾

번호	년도	월	교통사고 건수	사망자 수	부상자 수
61	2010	1	17124	438	27655
62	2010	2	15803	406	24968
63	2010	3	17801	396	27350
64	2010	4	18386	395	28191
65	2010	5	20372	447	31521
66	2010	6	18910	474	28311
67	2010	7	18965	453	29577
68	2010	8	19383	410	31032
69	2010	9	19439	436	30470
70	2010	10	21575	619	33282
71	2010	11	20271	541	30907
72	2010	12	18849	490	29194
합계			226,878건	5,505명	352,458명