/\*

1. remove event listener from dropdown

2. create button for filter

3. add event listner (click) to btn

4. grab values for gender and dept

5. pass those to the build charts function

\*/

var gender = null;

var dept = null;

function resetVariables() {

gender = null;

dept = null

}

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* Event drop down

\*/

dept\_dropdown = d3.select('#dept-dropdown');

dept\_dropdown.on('change', filterFunction);

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* Dept change handler function

\*/

function filterFunction() {

// select gender dropdown and get value

// select dept dropdown and get value

// call buildcharts and pass those

buildCharts(gender, dept);

}

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* Build charts function

\*/

//set up to accept gender

function buildCharts(gender=null, dept=null) {

// attrition chart

d3.json('/api/gender\_demographic').then(data => {

console.log(dept);

// apply filter to department if there is a selected value for it

if(dept) {

// data.forEach(d => {

// console.log(d['department']);

// console.log(dept);

// console.log('- - -');

// });

data = data.filter(d => d['department'].trim().toUpperCase() == dept.trim().toUpperCase())

console.log(data.length);

}

if(gender) {

// data.forEach(d => {

// console.log(d['department']);

// console.log(dept);

// console.log('- - -');

// })

}

gender = "Male"

console.log(gender)

genderdataMale = data.filter(d => d['gender'].trim().toUpperCase() == "Male".trim().toUpperCase())

genderdataFemale = data.filter(d => d['gender'].trim().toUpperCase() == "Female".trim().toUpperCase())

console.log(genderdataMale.length)

console.log(genderdataFemale)

// sortedData = data.sort((d1, d2) => {(d2['annual\_income'].toString() - d1['annual\_income'].toString())});

sortedData = genderdataFemale.sort((d1, d2) => {(d2['annual\_income'].toString() - d1['annual\_income'].toString())});

employee\_number = sortedData.map(d => `EMP ${d['employee\_number'].toString()}`);

attrition = sortedData.map(d => d['attrition']);

annual\_income = sortedData.map(d => d['annual\_income']);

console.log(annual\_income);

console.log(employee\_number);

var trace1 = {

x: employee\_number,

y: annual\_income,

marker:{

color: attrition

},

type: 'bar'

};

genderdataMale = data.filter(d => d['gender'].trim().toUpperCase() == "Male".trim().toUpperCase())

malesortedData = genderdataMale.sort((d1, d2) => {(d2['annual\_income'].toString() - d1['annual\_income'].toString())});

male\_employee\_number = malesortedData.map(d => `EMP ${d['employee\_number'].toString()}`);

attrition = malesortedData.map(d => d['attrition']);

male\_annual\_income = malesortedData.map(d => d['annual\_income']);

var maletrace = {

x: male\_employee\_number,

y: male\_annual\_income,

marker:{

color: attrition

},

type: 'bar'

};

genderdataFemale = data.filter(d => d['gender'].trim().toUpperCase() == "Female".trim().toUpperCase())

femalesortedData = genderdataFemale.sort((d1, d2) => {(d2['annual\_income'].toString() - d1['annual\_income'].toString())});

female\_employee\_number = femalesortedData.map(d => `EMP ${d['employee\_number'].toString()}`);

attrition = femalesortedData.map(d => d['attrition']);

female\_annual\_income = femalesortedData.map(d => d['annual\_income']);

var femaletrace = {

x: female\_employee\_number,

y: female\_annual\_income,

marker:{

color: attrition

},

type: 'bar'

};

var data = [trace1];

var updatemenus=[

{

buttons: [

{

args: ['type', 'Male'],

label: 'Male',

method: 'update'

},

{

args: ['type', 'Female'],

label:'Female',

method:'update'

}

],

direction: 'right',

pad: {'r': 1000, 't': 10},

showactive: true,

type: 'buttons',

x: 0.1,

xanchor: 'left',

y: 1.1,

yanchor: 'top'

}

]

var layout = {

title: 'Attrition / Salary Stuff',

updatemenus: updatemenus

};

Plotly.newPlot('attrition-salary', data, layout);

});

// reset config variables

resetVariables()

}

// make sure that you call this function

buildCharts();

// Department-Gender Stats

// d3.json('/api/dept\_gender\_stats').then(data => {

// gender = data.map(d => d['gender']);

// department = data.map(d => d['department']);

// annual\_income\_avg = data.map(d => d['annual\_income\_avg']);;

// var trace1 = {

// x: gender,

// y: annual\_income\_avg,

// type: 'bar',

// text: annual\_income\_avg,

// textposition: 'auto',

// hoverinfo: 'none',

// marker: {

// color: 'navy',

// opacity: 0.6,

// line: {

// color: 'purple',

// width: 1.5

// }

// }

// };

// var data = [trace1];

// var layout = {

// title: 'Average Salary by Gender'

// };

// Plotly.newPlot('intro-bar-chart', data, layout);

// });