<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8">

<title>Final Project - Chart 1</title>

<script type="text/javascript" src="../d3.js"></script>

<style type="text/css">

</style>

</head>

<body>

<div id="stackedChart"></div>

<script type="text/javascript">

var w = 5000;

var h = 4000;

var barPadding = 1;

//Create SVG element

var svg = d3.select("body")

.append("svg")

.attr("width", w)

.attr("height", h);

d3.csv("2017-2018\_Physical\_Education\_-\_PE\_Space\_20221110.csv")

.then(function(data) {

//NEW this is the function below with the formated data

var stackedData = makeDataStack(data)

//TODO you can write the stacked chart code in the new empty function using the formatted data

makeStackedChart(stackedData)

dataset = data

svg.selectAll("rect")

.data(data)

.enter()

.append("rect")

.attr("x", function(d, i) {

return i \* (w / data.length);

})

.attr("y", function(d) {

return h - (d.sqft / 100);

})

.attr("width", w / data.length - barPadding)

.attr("height", function(d) {

return d.sqft / 100;

})

.attr("fill", "red");

svg.selectAll("text")

.data(data)

.enter()

.append("text")

.text(function(d) {

return d.sqft

})

.attr("x", function(d, i) {

return i \* (w / data.length);

})

.attr("y", function(d) {

return h - (d.sqft / 100);

})

.attr("fill", "black");

} )

//NEW function that joins entries and adds up areas

function makeDataStack(dataset){

var formatted = {}

for(var i in dataset){

//make a variable to each row of data

var space = dataset[i]

//is this the school id? if not change to different key

var schoolId = space["ATS Code"]

//if the id is not in the formatted dictionary, make an entry with area set to 0 for each inside and outside

if(Object.keys(formatted).indexOf(schoolId)==-1){

formatted[schoolId]={}

formatted[schoolId]["inside"] = 0

formatted[schoolId]["outside"] = 0

}

//then add the new area to it depending on if it is inside or outside

//use a if statement to determin whether it is outside or in

//this code works if there are only insdie or outsdie options.

if(space["Inside v outside"]=="Inside"){

formatted[schoolId]["inside"]+=parseInt(space["sqft"])

}else if(space["Inside v outside"]=="Outside"){

formatted[schoolId]["outside"]+=parseInt(space["sqft"])

}

}

//here is the formatted output of the function

// console.log(formatted)

return formatted

}

function makeStackedChart(stackedData){

//TODO draw your chart here

}

</script>

</body>

</html>