var citiesRef = firebase.firestore().collection("cities");

citiesRef.doc("SF").set({

name: "San Francisco", state: "CA", country: "USA",

capital: false, population: 860000,

regions: ["west\_coast", "norcal"] });

console.log(citiesRef);

citiesRef.doc("LA").set({

name: "Los Angeles", state: "CA", country: "USA",

capital: false, population: 3900000,

regions: ["west\_coast", "socal"] });

console.log(citiesRef);

citiesRef.doc("DC").set({

name: "Washington, D.C.", state: null, country: "USA",

capital: true, population: 680000,

regions: ["east\_coast"] });

console.log(citiesRef);

citiesRef.doc("TOK").set({

name: "Tokyo", state: null, country: "Japan",

capital: true, population: 9000000,

regions: ["kanto", "honshu"] });

console.log(citiesRef);

citiesRef.doc("BJ").set({

name: "Beijing", state: null, country: "China",

capital: true, population: 21500000,

regions: ["jingjinji", "hebei"] });

console.log(citiesRef);

————————————————-

var citiesRef = firebase.firestore().collection("cities");

citiesRef.where("state", "==", "CA").limit(1).get().then((doc) => {

const thing = doc.docs[0];

var test = doc.docs[0].data();

console.log("test:", test);

});

// no results error in console

citiesRef.where("population", "<", 100000).limit(1).get().then((doc) => {

const thing = doc.docs[0];

var test = doc.docs[0].data();

console.log("test:", test);

});

citiesRef.where("name", ">=", "San Francisco").limit(1).get().then((doc) => {

const thing = doc.docs[0];

var test = doc.docs[0].data()

console.log("test:", test);

});

citiesRef.where("country", "==", "USA")

.where("capital", "==", false)

.where("state", "==", "CA")

.where("population", "==", 860000).limit(1).get().then((doc) => {

const thing = doc.docs[0];

var test = doc.docs[0].data();

console.log("test:", test);

});

———————————————-

var citiesRef = firebase.firestore().collection("cities");

citiesRef.where("country", "==", "USA")

.where("population", ">", 69000)

.orderBy("population", 'desc').limit(2).get().then((querySnapshot) => {

querySnapshot.forEach(function(doc) {

var test = doc.data();

console.log("test:", test);

});

});

————— update Element

firebase.firestore().collection('DC').where('capital', '==', false).limit(1).get().then((query) => {

const thing = query.docs[0];

thing.ref.update({capital:true});

console.log(query.docs[0].value);

});

——- delete item

firebase.firestore().collection('DC').where('capital', '==', false).limit(1).get().then((query) => {

const thing = query.docs[0];

thing.ref.delete();

console.log(query.docs[0].value + " was successfully deleted");

});