Handlungsziel 6

# Alle User die Mehr als 100 Posts haben:

db.Instagramdataset.mapReduce(

function() {

if (this["Number of Posts"] > 100) {

emit("Users", 1);

}

},

function(key, values) {

return Array.sum(values);

},

{

out: "User mit mehr als 100 Posts"

}

)

# Durchschnittliche Anzahl der Posts

db.Instagramdataset.aggregate([

{

$group: {

\_id: "$Users",

avg\_posts: { $avg: "$Number of Posts" }

}

}

])

# Alle User die Genau 50 Posts haben

db.Instagramdataset.mapReduce(

function() {

if (this["Number of Posts"] == 50) {

emit("Users", 1);

}

},

function(key, values) {

return Array.sum(values);

},

{

out: "User mit 50 Posts"

})

# Die 10 mit den wenigsten Posts

db.Instagramdataset.aggregate([

{"$group": {"\_id": "$User", "Number of Posts": {"$sum": 1}}},

{"$sort": {"Number of Posts": 1}},

{"$limit": 10},

{"$project": {"\_id": 0, "User": "$\_id", "Number of Posts": 1}}

])

# Users mit weniger als 50 Posts und mehr als 400 Follower

var mapFunction = function() {

if (this.Number\_of\_Posts < 50 && this.Number\_of\_Followers > 400) {

emit(this.User, 1);

}

};

var reduceFunction = function(key, values) {

return Array.sum(values);

};

db.Instagramdataset.mapReduce(

mapFunction,

reduceFunction,

{

out: { inline: 1 }

}

)

# Alle Frauen mit weniger als 50 Followers

var mapFunction = function() {

if (this.Gender == "f" && this["Number of Followers"] < 50) {

emit(this.User, 1);

}

};

var reduceFunction = function(key, values) {

return Array.sum(values);

};

db.Instagramdataset.mapReduce(

mapFunction,

reduceFunction,

{ out: { inline: 1 } }

).results.forEach(function(result) {

printjson(result.\_id);

});