Ejercicios SW2

Ejercicio1

1. db.zips.find({pop:{$lt:1000}}).count()
2. db.trips.count({"birth year": { $gt: 1998 }) – db.trips.count({"birth year": 1998 })
3. db.routes.find({ stops: { $gte: 1 }}).count()
4. db.inspections.find({ "result": "Out of Business", "sector": "Home Improvement Contractor – 100"}).count()
5.
    1. db.inspections.find({ $and: [{ $or: [{ date: 'Feb 20 2015' }, { date: 'Feb 21 2015' }] }, { "sector": { $not: {$eq:'Cigarette Retail Dealer – 127'} } }] }).count()
    2. db.inspections.find({ $or: [{ date: 'Feb 20 2015' }, { date: 'Feb 21 2015' }] , "sector": { $ne:'Cigarette Retail Dealer – 127' } }).count()

Ejercicio2

1. db.companies.find({ "$expr": { "$gt": ["$number_of_employees", "$founded_year"] }}).count()
2. db.companies.find({ "$expr": { "$eq": ["$permalink", "$twitter_username"] }}).count()
3. db.listingsAndReviews.find({number_of_reviews: 50, accommodates: { $gt: 6}}, {name:1})
4. db.listingsAndReviews.find({property_type: 'House', amenities: {"$elemMatch": {$eq:"Changing table"} }}).count()
5.
    1. db.companies.find({offices: {"$elemMatch": {city:"Seattle"} }}).count()
    2. db.companies.find({'offices.city': "Seattle" }).count()
6. db.companies.find({ "funding_rounds": { $size: 8 } }, { "name": 1, "_id": 0 })
7. db.trips.find({ "start station location.coordinates.0": { $lt: -74 } }).count()
8. db.inspections.find({ "address.city": "NEW YORK" }).count()
9. db.listingsAndReviews.find({ "amenities.0": "Internet" }, { "name": 1, "address": 1, "_id": 0 })

Ejercicio3

1. db.listingsAndReviews.aggregate([{ $group: { _id: "$room_type" } }])
2. db.companies.find({ "founded_year": { $ne: null } }, { name: 1, "founded_year": 1, _id: 0 }).sort({ "founded_year": 1 }).limit(5)

3.
   1. db.trips.aggregate([{ $match: { "birth year": { $ne: '' } } },
      { $group: { _id: null, maxBirthYear: { $max: "$birth year" } } }])
   2. db.trips.find({'birth year': {$ne:''}},{name:1, _id:0, 'birth
      year':1}).sort({'birth year':-1}).limit(1)

number_of_reviews
accommodates
Name