Homework 9

- (1) db.zips.aggregate([{\$match: {state:"IA"}}]).pretty()
- (2) db.zips.aggregate([{\$match: {pop:{\$lt: 1000}}}]).pretty()
- (3) db.zips.aggregate([{\$group : {_id : "\$city", num_zipcodes : {\$sum:1}}}, {\$match : { num_zipcodes : {\$gte : 2}}}, {\$project : {_id : 0, 'city' : "\$_id", 'Number of Zipcodes': "\$num_zipcodes"}}, {\$sort : {city:1}}])
- (4) db.zips.aggregate([{ \$group:{_id: { state: "\$state", city: "\$city" },pop: { \$sum: "\$pop"}}},{\$sort: {
 pop: 1}},{\$group:{_id: "\$_id.state", smallestCity: { \$first: "\$_id.city" },smallestPop: { \$first:
 "\$pop" }}},{ \$project:{__id: 0,state: "\$_id",smallestCity: { name: "\$smallestCity", pop:
 "\$smallestPop" }}}])