from pymongo import MongoClient  
   
 client = MongoClient("team2-vm1:27222")  
   
 db = client.amazon  
 reviews = db.reviews  
 product = db.products  
   
   
print "Query 1"  
 for product in reviews.find({"overall":{"$gt":3.0}},{"\_id”:0,"asin":1,"reviewerName":1}).limit(10):  
 print product  
  
print "Query 2"  
 for customer in reviews.find({"asin":"0000013714"},{"reviewerName":1,"\_id":0}):  
 print customer  
  
  
print "Query 3"  
 for products in reviews.find({"reviewerID":"A23PISU0ZLW71C"},{"reviewerID":1,"reviewerName":1,"asin":1})  
 print products  
  
   
  
print "Query 4"  
 from pprint import pprint   
 pipeline = reviews.aggregate([{"$group":{"\_id":"$asin","maxrating":{"$max":{"$avg":"$overall"}}}},{"$limit":10}])  
 pprint(list()pipeline)  
  
print "Query 4"  
 pipeline = [{"$group":{"\_id":"$asin","count":{"$sum":1}}},{"$sort":SON([("count",1),("\_id",-1)])}]  
 pprint(list(reviews.aggregate(pipeline)))  
  
print "Query 5"  
 reviews.find({"helpful":{"$in":[0]}}).count()  
  
print "Query 6"  
 for review in reviews.find({"reviewerName":"GCM"},{"reviewerName":1,"reviewText":1,"\_id":0,"asin":1}):  
 print review  
  
print "Query 7"  
db.review1.aggregate([{$match: {"reviewerName": {$exists: true, $ne: null}}}, {$group: { "\_id":"$reviewerName", "count":{$sum:1}}}, {$sort: {"count": -1 }},{$limit:10}],{allowDiskUse:true})  
  
print "Query 8"  
pipeline = products.aggregate([{"$unwind":"$salesRank.Movies & TV"},{"$sort":{"salesRank.Movies & TV":1}},{"$group":{"\_id":"$brand","salesRank":{"$push":"$salesRank"},"product":{"$push":"$asin"}}}])  
pprint(list(pipeline))  
  
print "Query 9"  
pipeline = products.aggregate([{"$unwind":"$salesRank.Books"},{"$sort":{"salesRank.Books":-1}},{"$group":{"\_id":"$asin","salesRank":{"$push":"$salesRank"}}},{"$limit":10}])  
pprint(list(pipeline))  
  
print "Query 10"  
for brand in products.aggregate([{"$unwind":"$salesRank.Movies & TV"},{"$sort":{"salesRank.Movies & TV":-1}},{"$group":{"\_id":"$brand","count":{"$sum":1}}}]):  
 print brand  
  
print "Query 11"  
for product in products.find({"price":{"$gte":10,"$lte":20}},{"\_id":0,"asin":1,"price":1}):  
 print product  
  
print "Query 12"  
db.products.find({"categories":{"$elemMatch":{"$elemMatch":{"$eq":"Books"}}}},{"price":1,"\_id":0,"categories":1,"asin":1}).sort({"price":-1}).limit(10)  
  
  
print "Query 13"  
db.reviews.createIndex({reviewTime:"text"})  
pipeline = reviews.aggregate([{"$match":{"$text":{"$search":2000}}},{"$group":{"\_id":"$asin","count":{"$sum":1}}},{"$sort":{"count":-1}},{"$limit":10}])  
pprint(list(pipeline))  
  
print "Query 14"  
 reviews.find({"asin":"0000013714","reviewerName":"GCM"}).count()  
   
print "Query 15"  
 reviews.find({"asin":"0000013714"}).count()  
  
print "Query 16"  
db.review1.aggregate([{"$group":{"\_id":"$\_id","helpful":{"$push":"$helpful"},"Product":{"$push":"$asin"}}},{"$sort":{"helpful":-1}},{"$limit":10}],{allowDiskUse: true})