1.

db.restaurants.aggregate([{$group:{\_id:"$cuisine",total:{$sum:1}}},{$sort:{total:-1}},{$limit:1}]).pretty()

2.

db.restaurants.aggregate([{$match:{cuisine:"American "}},{$group:{\_id:"$borough",total:{$sum:1}}},{$sort:{total:-1}}]).pretty()

3.

db.restaurants.aggregate([{$match:{cuisine:"American "}},{$group:{\_id:"$address.zipcode",total:{$sum:1}}},{$sort:{total:1}}]).pretty()

4.

,{$count:{$unwind:{}}}

db.restaurants.aggregate([{$project:{numGrades:{$size:"$grades"}}},{$project:{numGrades:{$gt:["$numGrades",3]}}},/\*{$group:{numAs:”$grades.grade”}},\*/{$sort:{numAs:-1}},{$limit:3}]).pretty()