**>show databases**

admin 40.00 KiB

config 108.00 KiB

dbname 72.00 KiB

**//insert into restaurant by insertMany**

db.restaurant.insertMany([{"address": {"building": "1007", "coord": [-73.856077, 40.848447], "street": "Morris Park Ave", "zipcode": "10462"}, "borough": "Bronx", "cuisine": "Bakery", "grades": [{"date": {"$date": 1393804800000}, "grade": "A", "score": 2}, {"date": {"$date": 1378857600000}, "grade": "A", "score": 6}, {"date": {"$date": 1358985600000}, "grade": "A", "score": 10}, {"date": {"$date": 1322006400000}, "grade": "A", "score": 9}, {"date": {"$date": 1299715200000}, "grade": "B", "score": 14}], "name": "Morris Park Bake Shop", "restaurant\_id": "30075445"},

{"address": {"building": "469", "coord": [-73.961704, 40.662942], "street": "Flatbush Avenue", "zipcode": "11225"}, "borough": "Brooklyn", "cuisine": "Hamburgers", "grades": [{"date": {"$date": 1419897600000}, "grade": "A", "score": 8}, {"date": {"$date": 1404172800000}, "grade": "B", "score": 23}, {"date": {"$date": 1367280000000}, "grade": "A", "score": 12}, {"date": {"$date": 1336435200000}, "grade": "A", "score": 12}], "name": "Wendy'S", "restaurant\_id": "30112340"},

{"address": {"building": "351", "coord": [-73.98513559999999, 40.7676919], "street": "West 57 Street", "zipcode": "10019"}, "borough": "Manhattan", "cuisine": "Irish", "grades": [{"date": {"$date": 1409961600000}, "grade": "A", "score": 2}, {"date": {"$date": 1374451200000}, "grade": "A", "score": 11}, {"date": {"$date": 1343692800000}, "grade": "A", "score": 12}, {"date": {"$date": 1325116800000}, "grade": "A", "score": 12}], "name": "Dj Reynolds Pub And Restaurant", "restaurant\_id": "30191841"},

{"address": {"building": "2780", "coord": [-73.98241999999999, 40.579505], "street": "Stillwell Avenue", "zipcode": "11224"}, "borough": "Brooklyn", "cuisine": "American ", "grades": [{"date": {"$date": 1402358400000}, "grade": "A", "score": 5}, {"date": {"$date": 1370390400000}, "grade": "A", "score": 7}, {"date": {"$date": 1334275200000}, "grade": "A", "score": 12}, {"date": {"$date": 1318377600000}, "grade": "A", "score": 12}], "name": "Riviera Caterer", "restaurant\_id": "40356018"},

{"address": {"building": "97-22", "coord": [-73.8601152, 40.7311739], "street": "63 Road", "zipcode": "11374"}, "borough": "Queens", "cuisine": "Jewish/Kosher", "grades": [{"date": {"$date": 1416787200000}, "grade": "Z", "score": 20}, {"date": {"$date": 1358380800000}, "grade": "A", "score": 13}, {"date": {"$date": 1343865600000}, "grade": "A", "score": 13}, {"date": {"$date": 1323907200000}, "grade": "B", "score": 25}], "name": "Tov Kosher Kitchen", "restaurant\_id": "40356068"},

{"address": {"building": "8825", "coord": [-73.8803827, 40.7643124], "street": "Astoria Boulevard", "zipcode": "11369"}, "borough": "Queens", "cuisine": "American ", "grades": [{"date": {"$date": 1416009600000}, "grade": "Z", "score": 38}, {"date": {"$date": 1398988800000}, "grade": "A", "score": 10}, {"date": {"$date": 1362182400000}, "grade": "A", "score": 7}, {"date": {"$date": 1328832000000}, "grade": "A", "score": 13}], "name": "Brunos On The Boulevard", "restaurant\_id": "40356151"},

{"address": {"building": "2206", "coord": [-74.1377286, 40.6119572], "street": "Victory Boulevard", "zipcode": "10314"}, "borough": "Staten Island", "cuisine": "Jewish/Kosher", "grades": [{"date": {"$date": 1412553600000}, "grade": "A", "score": 9}, {"date": {"$date": 1400544000000}, "grade": "A", "score": 12}, {"date": {"$date": 1365033600000}, "grade": "A", "score": 12}, {"date": {"$date": 1327363200000}, "grade": "A", "score": 9}], "name": "Kosher Island", "restaurant\_id": "40356442"},

{"address": {"building": "7114", "coord": [-73.9068506, 40.6199034], "street": "Avenue U", "zipcode": "11234"}, "borough": "Brooklyn", "cuisine": "Delicatessen", "grades": [{"date": {"$date": 1401321600000}, "grade": "A", "score": 10}, {"date": {"$date": 1389657600000}, "grade": "A", "score": 10}, {"date": {"$date": 1375488000000}, "grade": "A", "score": 8}, {"date": {"$date": 1342569600000}, "grade": "A", "score": 10}, {"date": {"$date": 1331251200000}, "grade": "A", "score": 13}, {"date": {"$date": 1318550400000}, "grade": "A", "score": 9}], "name": "Wilken'S Fine Food", "restaurant\_id": "40356483"},

{"address": {"building": "6409", "coord": [-74.00528899999999, 40.628886], "street": "11 Avenue", "zipcode": "11219"}, "borough": "Brooklyn", "cuisine": "American ", "grades": [{"date": {"$date": 1405641600000}, "grade": "A", "score": 12}, {"date": {"$date": 1375142400000}, "grade": "A", "score": 12}, {"date": {"$date": 1360713600000}, "grade": "A", "score": 11}, {"date": {"$date": 1345075200000}, "grade": "A", "score": 2}, {"date": {"$date": 1313539200000}, "grade": "A", "score": 11}], "name": "Regina Caterers", "restaurant\_id": "40356649"},

{"address": {"building": "1839", "coord": [-73.9482609, 40.6408271], "street": "Nostrand Avenue", "zipcode": "11226"}, "borough": "Brooklyn", "cuisine": "Ice Cream, Gelato, Yogurt, Ices", "grades": [{"date": {"$date": 1405296000000}, "grade": "A", "score": 12}, {"date": {"$date": 1373414400000}, "grade": "A", "score": 8}, {"date": {"$date": 1341964800000}, "grade": "A", "score": 5}, {"date": {"$date": 1329955200000}, "grade": "A", "score": 8}], "name": "Taste The Tropics Ice Cream", "restaurant\_id": "40356731"},

{"address": {"building": "2300", "coord": [-73.8786113, 40.8502883], "street": "Southern Boulevard", "zipcode": "10460"}, "borough": "Bronx", "cuisine": "American ", "grades": [{"date": {"$date": 1401235200000}, "grade": "A", "score": 11}, {"date": {"$date": 1371600000000}, "grade": "A", "score": 4}, {"date": {"$date": 1339718400000}, "grade": "A", "score": 3}], "name": "Wild Asia", "restaurant\_id": "40357217"},

{"address": {"building": "7715", "coord": [-73.9973325, 40.61174889999999], "street": "18 Avenue", "zipcode": "11214"}, "borough": "Brooklyn", "cuisine": "American ", "grades": [{"date": {"$date": 1397606400000}, "grade": "A", "score": 5}, {"date": {"$date": 1366675200000}, "grade": "A", "score": 2}, {"date": {"$date": 1335225600000}, "grade": "A", "score": 5}, {"date": {"$date": 1323993600000}, "grade": "A", "score": 2}], "name": "C & C Catering Service", "restaurant\_id": "40357437"},

{"address": {"building": "1269", "coord": [-73.871194, 40.6730975], "street": "Sutter Avenue", "zipcode": "11208"}, "borough": "Brooklyn", "cuisine": "Chinese", "grades": [{"date": {"$date": 1410825600000}, "grade": "B", "score": 21}, {"date": {"$date": 1377648000000}, "grade": "A", "score": 7}, {"date": {"$date": 1364860800000}, "grade": "C", "score": 56}, {"date": {"$date": 1344988800000}, "grade": "B", "score": 27}, {"date": {"$date": 1332892800000}, "grade": "B", "score": 27}], "name": "May May Kitchen", "restaurant\_id": "40358429"},

{"address": {"building": "1", "coord": [-73.96926909999999, 40.7685235], "street": "East 66 Street", "zipcode": "10065"}, "borough": "Manhattan", "cuisine": "American ", "grades": [{"date": {"$date": 1399420800000}, "grade": "A", "score": 3}, {"date": {"$date": 1367539200000}, "grade": "A", "score": 4}, {"date": {"$date": 1335744000000}, "grade": "A", "score": 6}, {"date": {"$date": 1324944000000}, "grade": "A", "score": 0}], "name": "1 East 66Th Street Kitchen", "restaurant\_id": "40359480"},

{"address": {"building": "705", "coord": [-73.9653967, 40.6064339], "street": "Kings Highway", "zipcode": "11223"}, "borough": "Brooklyn", "cuisine": "Jewish/Kosher", "grades": [{"date": {"$date": 1415577600000}, "grade": "A", "score": 11}, {"date": {"$date": 1381363200000}, "grade": "A", "score": 13}, {"date": {"$date": 1349308800000}, "grade": "A", "score": 7}, {"date": {"$date": 1337558400000}, "grade": "A", "score": 9}, {"date": {"$date": 1325203200000}, "grade": "B", "score": 19}], "name": "Seuda Foods", "restaurant\_id": "40360045"},

{"address": {"building": "203", "coord": [-73.97822040000001, 40.6435254], "street": "Church Avenue", "zipcode": "11218"}, "borough": "Brooklyn", "cuisine": "Ice Cream, Gelato, Yogurt, Ices", "grades": [{"date": {"$date": 1391990400000}, "grade": "A", "score": 2}, {"date": {"$date": 1357084800000}, "grade": "A", "score": 13}, {"date": {"$date": 1326067200000}, "grade": "A", "score": 3}, {"date": {"$date": 1320624000000}, "grade": "P", "score": 12}, {"date": {"$date": 1311206400000}, "grade": "A", "score": 13}], "name": "Carvel Ice Cream", "restaurant\_id": "40360076"},

{"address": {"building": "265-15", "coord": [-73.7032601, 40.7386417], "street": "Hillside Avenue", "zipcode": "11004"}, "borough": "Queens", "cuisine": "Ice Cream, Gelato, Yogurt, Ices", "grades": [{"date": {"$date": 1414454400000}, "grade": "A", "score": 9}, {"date": {"$date": 1379462400000}, "grade": "A", "score": 10}, {"date": {"$date": 1348099200000}, "grade": "A", "score": 13}], "name": "Carvel Ice Cream", "restaurant\_id": "40361322"},

{"address": {"building": "6909", "coord": [-74.0259567, 40.6353674], "street": "3 Avenue", "zipcode": "11209"}, "borough": "Brooklyn", "cuisine": "Delicatessen", "grades": [{"date": {"$date": 1408579200000}, "grade": "A", "score": 4}, {"date": {"$date": 1393977600000}, "grade": "A", "score": 3}, {"date": {"$date": 1357776000000}, "grade": "A", "score": 10}], "name": "Nordic Delicacies", "restaurant\_id": "40361390"},

{"address": {"building": "522", "coord": [-73.95171, 40.767461], "street": "East 74 Street", "zipcode": "10021"}, "borough": "Manhattan", "cuisine": "American ", "grades": [{"date": {"$date": 1409616000000}, "grade": "A", "score": 12}, {"date": {"$date": 1387411200000}, "grade": "B", "score": 16}, {"date": {"$date": 1369699200000}, "grade": "A", "score": 9}, {"date": {"$date": 1354838400000}, "grade": "A", "score": 13}, {"date": {"$date": 1332979200000}, "grade": "A", "score": 11}], "name": "Glorious Food", "restaurant\_id": "40361521"},

{"address": {"building": "284", "coord": [-73.9829239, 40.6580753], "street": "Prospect Park West", "zipcode": "11215"}, "borough": "Brooklyn", "cuisine": "American ", "grades": [{"date": {"$date": 1416355200000}, "grade": "A", "score": 11}, {"date": {"$date": 1384387200000}, "grade": "A", "score": 2}, {"date": {"$date": 1354665600000}, "grade": "A", "score": 13}, {"date": {"$date": 1337212800000}, "grade": "A", "score": 11}], "name": "The Movable Feast", "restaurant\_id": "40361606"},

{"address": {"building": "200", "coord": [-73.983169, 40.7774031], "street": "West 70 Street", "zipcode": "10023"}, "borough": "Manhattan", "cuisine": "French", "grades": [{"date": {"$date": 1398384000000}, "grade": "A", "score": 5}, {"date": {"$date": 1363651200000}, "grade": "A", "score": 13}, {"date": {"$date": 1349308800000}, "grade": "A", "score": 12}, {"date": {"$date": 1321228800000}, "grade": "A", "score": 7}, {"date": {"$date": 1310601600000}, "grade": "A", "score": 2}], "name": "Cafe Luxembourg", "restaurant\_id": "40377789"}

])

***1) Write a MongoDB query to display the fields restaurant\_id, name, and zip code but exclude the field \_id for all the documents in the collection restaurant.***

|  |
| --- |
|  |

**db.restaurants.find({},{"restaurant\_id" : 1,"name":1,"borough":1,"address.zipcode" :1,"\_id":0});**

{ "address" : { "zipcode" : "10019" }, "borough" : "Manhattan", "name" : "Dj Reynolds Pub And Restaurant", "restaurant\_id" : "30191841" }

{ "address" : { "zipcode" : "10462" }, "borough" : "Bronx", "name" : "Morris Park Bake Shop", "restaurant\_id" : "30075445" }

{ "address" : { "zipcode" : "11224" }, "borough" : "Brooklyn", "name" : "Riviera Caterer", "restaurant\_id" : "40356018" }

{ "address" : { "zipcode" : "11225" }, "borough" : "Brooklyn", "name" : "Wendy'S", "restaurant\_id" : "30112340" }

{ "address" : { "zipcode" : "11374" }, "borough" : "Queens", "name" : "Tov Kosher Kitchen", "restaurant\_id" : "40356068" }

{ "address" : { "zipcode" : "11369" }, "borough" : "Queens", "name" : "Brunos On The Boulevard", "restaurant\_id" : "40356151" }

***2) Write a MongoDB query to arrange the name of the restaurants in ascending order along with all the columns.***

**db.restaurants.find().sort({"name":1});**

{ "\_id" : ObjectId("564c2d949eb21ad392f1d6de"), "address" : { "building" : "154", "coord" : [ -73.9189064, 40.8654529 ], "street" : "Post Ave", "zipcode" : "10034" }, "borough" : "Manhattan", "cuisine" : "Other", "grades" : [ ], "name" : "", "restaurant\_id" : "50017887" }

{ "\_id" : ObjectId("564c2d949eb21ad392f1d6ec"), "address" : { "building" : "508", "coord" : [ -73.999813, 40.683876 ], "street" : "Henry St", "zipcode" : "11231" }, "borough" : "Brooklyn", "cuisine" : "Other", "grades" : [ ], "name" : "", "restaurant\_id" : "50017910" }

{ "\_id" : ObjectId("564c2d949eb21ad392f1d6ed"), "address" : { "building" : "15", "coord" : [ -73.9966882, 40.7139264 ], "street" : "Division St", "zipcode" : "10002" }, "borough" : "Manhattan", "cuisine" : "Other", "grades" : [ ], "name" : "", "restaurant\_id" : "50017912" }

{ "\_id" : ObjectId("564c2d949eb21ad392f1d6f5"), "address" : { "building" : "4704", "coord" : [ -74.013391, 40.64943 ], "street" : "3Rd Ave", "zipcode" : "11220" }, "borough" : "Brooklyn", "cuisine" : "Other", "grades" : [ ], "name" : "", "restaurant\_id" : "50017925" }

{ "\_id" : ObjectId("564c2d949eb21ad392f1d6f8"), "address" : { "building" : "2145", "coord" : [ -73.8668062, 40.8547454 ], "street" : "Cruger Ave", "zipcode" : "10462" }, "borough" : "Bronx", "cuisine" : "Other", "grades" : [ ], "name" : "", "restaurant\_id" : "50017935" }

{ "\_id" : ObjectId("564c2d949eb21ad392f1d6f9"), "address" : { "building" : "567", "coord" : [ -73.9521663, 40.7172388 ], "street" : "Union Ave", "zipcode" : "11211" }, "borough" : "Brooklyn", "cuisine" : "Other", "grades" : [ ], "name" : "", "restaurant\_id" : "50017938" }

{ "\_id" : ObjectId("564c2d949eb21ad392f1d702"), "address" : { "building" : "947", "coord" : [ -74.00435499999999, 40.653897 ], "street" : "4Th Ave", "zipcode" : "11232" }, "borough" : "Brooklyn", "cuisine" : "Other", "grades" : [ ], "name" : "", "restaurant\_id" : "50017967" }

***3) Write a MongoDB query to display the first 5 restaurant in ascending order of name field.***

**db.restaurants.find().sort({"name":1}).limit(5);**

{ "\_id" : ObjectId("564c2d949eb21ad392f1d6de"), "address" : { "building" : "154", "coord" : [ -73.9189064, 40.8654529 ], "street" : "Post Ave", "zipcode" : "10034" }, "borough" : "Manhattan", "cuisine" : "Other", "grades" : [ ], "name" : "", "restaurant\_id" : "50017887" }

{ "\_id" : ObjectId("564c2d949eb21ad392f1d6ec"), "address" : { "building" : "508", "coord" : [ -73.999813, 40.683876 ], "street" : "Henry St", "zipcode" : "11231" }, "borough" : "Brooklyn", "cuisine" : "Other", "grades" : [ ], "name" : "", "restaurant\_id" : "50017910" }

{ "\_id" : ObjectId("564c2d949eb21ad392f1d6ed"), "address" : { "building" : "15", "coord" : [ -73.9966882, 40.7139264 ], "street" : "Division St", "zipcode" : "10002" }, "borough" : "Manhattan", "cuisine" : "Other", "grades" : [ ], "name" : "", "restaurant\_id" : "50017912" }

{ "\_id" : ObjectId("564c2d949eb21ad392f1d6f5"), "address" : { "building" : "4704", "coord" : [ -74.013391, 40.64943 ], "street" : "3Rd Ave", "zipcode" : "11220" }, "borough" : "Brooklyn", "cuisine" : "Other", "grades" : [ ], "name" : "", "restaurant\_id" : "50017925" }

{ "\_id" : ObjectId("564c2d949eb21ad392f1d6f8"), "address" : { "building" : "2145", "coord" : [ -73.8668062, 40.8547454 ], "street" : "Cruger Ave", "zipcode" : "10462" }, "borough" : "Bronx", "cuisine" : "Other", "grades" : [ ], "name" : "", "restaurant\_id" : "50017935" }

***4) Write a MongoDB query to display the next 5 restaurants after skipping first 5.***

**db.restaurants.find().sort({"name":1}).skip(5);**

{"address": {"building": "8825", "coord": [-73.8803827, 40.7643124], "street": "Astoria Boulevard", "zipcode": "11369"}, "borough": "Queens", "cuisine": "American ", "grades": [{"date": {"$date": 1416009600000}, "grade": "Z", "score": 38}, {"date": {"$date": 1398988800000}, "grade": "A", "score": 10}, {"date": {"$date": 1362182400000}, "grade": "A", "score": 7}, {"date": {"$date": 1328832000000}, "grade": "A", "score": 13}], "name": "Brunos On The Boulevard", "restaurant\_id": "40356151"}

{"address": {"building": "2206", "coord": [-74.1377286, 40.6119572], "street": "Victory Boulevard", "zipcode": "10314"}, "borough": "Staten Island", "cuisine": "Jewish/Kosher", "grades": [{"date": {"$date": 1412553600000}, "grade": "A", "score": 9}, {"date": {"$date": 1400544000000}, "grade": "A", "score": 12}, {"date": {"$date": 1365033600000}, "grade": "A", "score": 12}, {"date": {"$date": 1327363200000}, "grade": "A", "score": 9}], "name": "Kosher Island", "restaurant\_id": "40356442"}

{"address": {"building": "7114", "coord": [-73.9068506, 40.6199034], "street": "Avenue U", "zipcode": "11234"}, "borough": "Brooklyn", "cuisine": "Delicatessen", "grades": [{"date": {"$date": 1401321600000}, "grade": "A", "score": 10}, {"date": {"$date": 1389657600000}, "grade": "A", "score": 10}, {"date": {"$date": 1375488000000}, "grade": "A", "score": 8}, {"date": {"$date": 1342569600000}, "grade": "A", "score": 10}, {"date": {"$date": 1331251200000}, "grade": "A", "score": 13}, {"date": {"$date": 1318550400000}, "grade": "A", "score": 9}], "name": "Wilken'S Fine Food", "restaurant\_id": "40356483"}

{"address": {"building": "6409", "coord": [-74.00528899999999, 40.628886], "street": "11 Avenue", "zipcode": "11219"}, "borough": "Brooklyn", "cuisine": "American ", "grades": [{"date": {"$date": 1405641600000}, "grade": "A", "score": 12}, {"date": {"$date": 1375142400000}, "grade": "A", "score": 12}, {"date": {"$date": 1360713600000}, "grade": "A", "score": 11}, {"date": {"$date": 1345075200000}, "grade": "A", "score": 2}, {"date": {"$date": 1313539200000}, "grade": "A", "score": 11}], "name": "Regina Caterers", "restaurant\_id": "40356649"}

{"address": {"building": "1839", "coord": [-73.9482609, 40.6408271], "street": "Nostrand Avenue", "zipcode": "11226"}, "borough": "Brooklyn", "cuisine": "Ice Cream, Gelato, Yogurt, Ices", "grades": [{"date": {"$date": 1405296000000}, "grade": "A", "score": 12}, {"date": {"$date": 1373414400000}, "grade": "A", "score": 8}, {"date": {"$date": 1341964800000}, "grade": "A", "score": 5}, {"date": {"$date": 1329955200000}, "grade": "A", "score": 8}], "name": "Taste The Tropics Ice Cream", "restaurant\_id": "40356731"}

***5) Write a MongoDB query to find the restaurants who achieved a score more than 90.***

**db.restaurants.find({grades : { $elemMatch:{"score":{$gt : 90}}}});**

{ "\_id" : ObjectId("564c2d939eb21ad392f17726"), "address" : { "building" : "65", "coord" : [ -73.9782725, 40.7624022 ], "street" : "West 54 Street", "zipcode" : "10019" }, "borough" : "Manhattan", "cuisine" : "American ", "grades" : [ { "date" : ISODate("2014-08-22T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2014-03-28T00:00:00Z"), "grade" : "C", "score" : 131 }, { "date" : ISODate("2013-09-25T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2013-04-08T00:00:

00Z"), "grade" : "B", "score" : 25 }, { "date" : ISODate("2012-10-15T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2011-10-19T00:00:00Z"), "grade" : "A", "score" : 13 } ], "name" : "Murals On 54/Randolphs'S", "restaurant\_id" : "40372466" }

{ "\_id" : ObjectId("564c2d939eb21ad392f177c8"), "address" : { "building" : "345", "coord" : [ -73.9864626, 40.7266739 ], "street" : "East 6 Street", "zipcode" : "10003" }, "borough" : "Manhattan", "cuisine" : "Indian", "grades" : [ { "date" : ISODate("2014-09-15T00:00:00Z"), "grade" : "A", "score" : 5 }, { "date" : ISODate("2014-01-14T00:00:00Z"), "grade" : "A", "score" : 8 }, { "date" : ISODate("2013-05-30T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2013-04-24T00:00:00Z"), "

grade" : "P", "score" : 2 }, { "date" : ISODate("2012-10-01T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2012-04-06T00:00:00Z"), "grade" : "C", "score" : 92 }, { "date" : ISODate("2011-11-03T00:00:00Z"), "grade" : "C", "score" : 41 } ], "name" : "Gandhi", "restaurant\_id" : "40381295" }

{ "\_id" : ObjectId("564c2d939eb21ad392f17929"), "address" : { "building" : "130", "coord" : [ -73.984758, 40.7457939 ], "street" : "Madison Avenue", "zipcode" : "10016" }, "borough" : "Manhattan", "cuisine" : "Pizza/Italian", "grades" : [ { "date" : ISODate("2014-12-24T00:00:00Z"), "grade" : "Z", "score" : 31 }, { "date" : ISODate("2014-06-17T00:00:00Z"), "grade" : "C", "score" : 98 }, { "date" : ISODate("2013-12-12T00:00:00Z"), "grade" : "C", "score" : 32 }, { "date" : ISODate("2013-05-22T00:00

:00Z"), "grade" : "B", "score" : 21 }, { "date" : ISODate("2012-05-02T00:00:00Z"), "grade" : "A", "score" : 11 } ], "name" : "Bella Napoli", "restaurant\_id" : "40393488" }

{ "\_id" : ObjectId("564c2d949eb21ad392f1a951"), "address" : { "building" : "1724", "coord" : [ -73.94981, 40.780043 ], "street" : "2 Avenue", "zipcode" : "10128" }, "borough" : "Manhattan", "cuisine" : "Indian", "grades" : [ { "date" : ISODate("2014-09-25T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2014-03-20T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2013-09-09T00:00:00Z"), "grade" : "B", "score" : 21 }, { "date" : ISODate("2013-03-25T00:00:00Z"), "grade"

: "B", "score" : 18 }, { "date" : ISODate("2012-08-15T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2011-12-23T00:00:00Z"), "grade" : "C", "score" : 98 } ], "name" : "Baluchi'S Indian Food", "restaurant\_id" : "41569277" }

***6) Write a MongoDB query to find the restaurants that achieved a score, more than 80 but less than 100.***

**db.restaurants.find({grades : { $elemMatch:{"score":{$gt : 80 , $lt :100}}}});**

{ "\_id" : ObjectId("564c2d939eb21ad392f177c8"), "address" : { "building" : "345", "coord" : [ -73.9864626, 40.7266739 ], "street" : "East 6 Street", "zipcode" : "10003" }, "borough" : "Manhattan", "cuisine" : "Indian", "grades" : [ { "date" : ISODate("2014-09-15T00:00:00Z"), "grade" : "A", "score" : 5 }, { "date" : ISODate("2014-01-14T00:00:00Z"), "grade" : "A", "score" : 8 }, { "date" : ISODate("2013-05-30T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2013-04-24T00:00:00Z"), "

grade" : "P", "score" : 2 }, { "date" : ISODate("2012-10-01T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2012-04-06T00:00:00Z"), "grade" : "C", "score" : 92 }, { "date" : ISODate("2011-11-03T00:00:00Z"), "grade" : "C", "score" : 41 } ], "name" : "Gandhi", "restaurant\_id" : "40381295" }

{ "\_id" : ObjectId("564c2d939eb21ad392f17929"), "address" : { "building" : "130", "coord" : [ -73.984758, 40.7457939 ], "street" : "Madison Avenue", "zipcode" : "10016" }, "borough" : "Manhattan", "cuisine" : "Pizza/Italian", "grades" : [ { "date" : ISODate("2014-12-24T00:00:00Z"), "grade" : "Z", "score" : 31 }, { "date" : ISODate("2014-06-17T00:00:00Z"), "grade" : "C", "score" : 98 }, { "date" : ISODate("2013-12-12T00:00:00Z"), "grade" : "C", "score" : 32 }, { "date" : ISODate("2013-05-22T00:00

:00Z"), "grade" : "B", "score" : 21 }, { "date" : ISODate("2012-05-02T00:00:00Z"), "grade" : "A", "score" : 11 } ], "name" : "Bella Napoli", "restaurant\_id" : "40393488" }

{ "\_id" : ObjectId("564c2d949eb21ad392f18195"), "address" : { "building" : "", "coord" : [ -74.0163793, 40.7167671 ], "street" : "Hudson River", "zipcode" : "10282" }, "borough" : "Manhattan", "cuisine" : "American ", "grades" : [ { "date" : ISODate("2014-06-27T00:00:00Z"), "grade" : "C", "score" : 89 }, { "date" : ISODate("2013-06-06T00:00:00Z"), "grade" : "A", "score" : 6 }, { "date" : ISODate("2012-06-19T00:00:00Z"), "grade" : "A", "score" : 13 } ], "name" : "West 79Th Street Boat Basin Cafe"

, "restaurant\_id" : "40756344" }

{ "\_id" : ObjectId("564c2d949eb21ad392f186d3"), "address" : { "building" : "7705", "coord" : [ -73.8878704, 40.7435875 ], "street" : "Woodside Avenue", "zipcode" : "11373" }, "borough" : "Queens", "cuisine" : "Thai", "grades" : [ { "date" : ISODate("2014-05-12T00:00:00Z"), "grade" : "B", "score" : 14 }, { "date" : ISODate("2013-11-20T00:00:00Z"), "grade" : "C", "score" : 84 }, { "date" : ISODate("2012-09-18T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2012-05-03T00:00:00Z"), "

grade" : "B", "score" : 23 } ], "name" : "Spicy Shallot", "restaurant\_id" : "40979431" }

{ "\_id" : ObjectId("564c2d949eb21ad392f18708"), "address" : { "building" : "466", "coord" : [ -73.9747277, 40.7536114 ], "street" : "Lexington Avenue", "zipcode" : "10017" }, "borough" : "Manhattan", "cuisine" : "American ", "grades" : [ { "date" : ISODate("2014-10-14T00:00:00Z"), "grade" : "C", "score" : 84 }, { "date" : ISODate("2014-02-14T00:00:00Z"), "grade" : "A", "score" : 5 }, { "date" : ISODate("2013-07-11T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2013-01-29T00:00:0

0Z"), "grade" : "C", "score" : 36 }, { "date" : ISODate("2012-08-15T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2012-03-22T00:00:00Z"), "grade" : "B", "score" : 27 } ], "name" : "Bistro Caterers", "restaurant\_id" : "40987023" }

{ "\_id" : ObjectId("564c2d949eb21ad392f1989e"), "address" : { "building" : "320", "coord" : [ -73.9934047, 40.7544014 ], "street" : "West 37 Street", "zipcode" : "10018" }, "borough" : "Manhattan", "cuisine" : "American ", "grades" : [ { "date" : ISODate("2014-09-16T00:00:00Z"), "grade" : "C", "score" : 90 }, { "date" : ISODate("2014-02-21T00:00:00Z"), "grade" : "B", "score" : 27 }, { "date" : ISODate("2012-10-01T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2012-03-01T00:00:

00Z"), "grade" : "A", "score" : 10 } ], "name" : "Concrete Restaurant", "restaurant\_id" : "41363541" }

{ "\_id" : ObjectId("564c2d949eb21ad392f19c8b"), "address" : { "building" : "222", "coord" : [ -73.9579033, 40.7332745 ], "street" : "Franklin Street", "zipcode" : "11222" }, "borough" : "Brooklyn", "cuisine" : "Italian", "grades" : [ { "date" : ISODate("2014-12-11T00:00:00Z"), "grade" : "Z", "score" : 18 }, { "date" : ISODate("2013-10-31T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2013-03-20T00:00:00Z"), "grade" : "B", "score" : 24 }, { "date" : ISODate("2012-07-18T00:00:00Z"

), "grade" : "B", "score" : 18 }, { "date" : ISODate("2012-01-12T00:00:00Z"), "grade" : "C", "score" : 81 } ], "name" : "Anella", "restaurant\_id" : "41410058" }

{ "\_id" : ObjectId("564c2d949eb21ad392f1a951"), "address" : { "building" : "1724", "coord" : [ -73.94981, 40.780043 ], "street" : "2 Avenue", "zipcode" : "10128" }, "borough" : "Manhattan", "cuisine" : "Indian", "grades" : [ { "date" : ISODate("2014-09-25T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2014-03-20T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2013-09-09T00:00:00Z"), "grade" : "B", "score" : 21 }, { "date" : ISODate("2013-03-25T00:00:00Z"), "grade"

: "B", "score" : 18 }, { "date" : ISODate("2012-08-15T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2011-12-23T00:00:00Z"), "grade" : "C", "score" : 98 } ], "name" : "Baluchi'S Indian Food", "restaurant\_id" : "41569277" }

{ "\_id" : ObjectId("564c2d949eb21ad392f1a9e0"), "address" : { "building" : "116", "coord" : [ -73.98978509999999, 40.7487912 ], "street" : "West 32 Street", "zipcode" : "10001" }, "borough" : "Manhattan", "cuisine" : "American ", "grades" : [ { "date" : ISODate("2014-02-11T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2013-10-10T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2013-04-29T00:00:00Z"), "grade" : "C", "score" : 82 }, { "date" : ISODate("2012-04-30

T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2011-12-21T00:00:00Z"), "grade" : "B", "score" : 19 }, { "date" : ISODate("2011-07-20T00:00:00Z"), "grade" : "C", "score" : 29 } ], "name" : "Cafe R", "restaurant\_id" : "41574642" }

{ "\_id" : ObjectId("564c2d949eb21ad392f1be8e"), "address" : { "building" : "5616", "coord" : [ -74.009993, 40.638865 ], "street" : "7 Avenue", "zipcode" : "11220" }, "borough" : "Brooklyn", "cuisine" : "Chinese", "grades" : [ { "date" : ISODate("2014-11-24T00:00:00Z"), "grade" : "C", "score" : 86 }, { "date" : ISODate("2014-06-24T00:00:00Z"), "grade" : "B", "score" : 20 }, { "date" : ISODate("2014-01-07T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2013-06-13T00:00:00Z"), "grad

e" : "A", "score" : 10 } ], "name" : "D & Y Restaurant", "restaurant\_id" : "50000040" }

{ "\_id" : ObjectId("564c2d949eb21ad392f1d1b2"), "address" : { "building" : "1898", "coord" : [ -73.910439, 40.8499696 ], "street" : "Jerome Avenue", "zipcode" : "10453" }, "borough" : "Bronx", "cuisine" : "Latin (Cuban, Dominican, Puerto Rican, South & Central American)", "grades" : [ { "date" : ISODate("2015-01-06T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2014-10-07T00:00:00Z"), "grade" : "C", "score" : 82 } ], "name" : "La Potencia Restaurant", "restaurant\_id" : "50014192

" }

***7) Write a MongoDB query to find the restaurant name, longitude and latitude and cuisine for those restaurants which contain 'Caf' as first three letters of its name.***

**db.restaurants.find(**

**{name: /^Caf/},**

**{**

**"restaurant\_id" : 1,**

**"name":1,"borough":1,**

**"cuisine" :1**

**}**

**);**

{"address": {"building": "200", "coord": [-73.983169, 40.7774031], "street": "West 70 Street", "zipcode": "10023"}, "borough": "Manhattan", "cuisine": "French", "grades": [{"date": {"$date": 1398384000000}, "grade": "A", "score": 5}, {"date": {"$date": 1363651200000}, "grade": "A", "score": 13}, {"date": {"$date": 1349308800000}, "grade": "A", "score": 12}, {"date": {"$date": 1321228800000}, "grade": "A", "score": 7}, {"date": {"$date": 1310601600000}, "grade": "A", "score": 2}], "name": "Cafe Luxembourg", "restaurant\_id": "40377789"}

***8) Write a MongoDb query to update grade B to A in all documents.***

**db.restuarent.update({grade:"**A**"},{$set:{grade:"B"}})**

([{"address": {"building": "1007", "coord": [-73.856077, 40.848447], "street": "Morris Park Ave", "zipcode": "10462"}, "borough": "Bronx", "cuisine": "Bakery", "grades": [{"date": {"$date": 1393804800000}, "grade": "A", "score": 2}, {"date": {"$date": 1378857600000}, "grade": "A", "score": 6}, {"date": {"$date": 1358985600000}, "grade": "B", "score": 10}, {"date": {"$date": 1322006400000}, "grade": "A", "score": 9},

{"address": {"building": "469", "coord": [-73.961704, 40.662942], "street": "Flatbush gradeAvenue", "zipcode": "11225"}, "borough": "Brooklyn", "cuisine": "Hamburgers", "grades": [{"date": {"$date": 1419897600000}, "grade": "A", "score": 8}, {"date": {"$date": 1404172800000}, "grade": "A", "score": 23}, {"date": {"$date": 1367280000000}, "grade": "A", "score": 12}, {"date": {"$date": 1336435200000}, "grade": "A", "score": 12}], "name": "Wendy'S", "restaurant\_id": "30112340"},

{"address": {"building": "351", "coord": [-73.98513559999999, 40.7676919], "street": "West 57 Street", "zipcode": "10019"}, "borough": "Manhattan", "cuisine": "Irish", "grades": [{"date": {"$date": 1409961600000}, "grade": "A", "score": 2}, {"date": {"$date": 1374451200000}, "grade": "A", "score": 11}, {"date": {"$date": 1343692800000}, "grade": "A", "score": 12}, {"date": {"$date": 1325116800000}, "grade": "B", "score": 12}], "name": "Dj Reynolds Pub And Restaurant", "restaurant\_id": "30191841"},

{"address": {"building": "2780", "coord": [-73.98241999999999, 40.579505], "street": "Stillwell Avenue", "zipcode": "11224"}, "borough": "Brooklyn", "cuisine": "American ", "grades": [{"date": {"$date": 1402358400000}, "grade": "A", "score": 5}, {"date": {"$date": 1370390400000}, "grade": "A", "score": 7}, {"date": {"$date": 1334275200000}, "grade": "A", "score": 12}, {"date": {"$date": 1318377600000}, "grade": "A", "score": 12}], "name": "Riviera Caterer", "restaurant\_id": "40356018"},

{"address": {"building": "97-22", "coord": [-73.8601152, 40.7311739], "street": "63 Road", "zipcode": "11374"}, "borough": "Queens", "cuisine": "Jewish/Kosher", "grades": [{"date": {"$date": 1416787200000}, "grade": "Z", "score": 20}, {"date": {"$date": 1358380800000}, "grade": "A", "score": 13}, {"date": {"$date": 1343865600000}, "grade": "A", "score": 13}, {"date": {"$date": 1323907200000}, "grade": "A", "score": 25}], "name": "Tov Kosher Kitchen", "restaurant\_id": "40356068"},

{"address": {"building": "8825", "coord": [-73.8803827, 40.7643124], "street": "Astoria Boulevard", "zipcode": "11369"}, "borough": "Queens", "cuisine": "American ", "grades": [{"date": {"$date": 1416009600000}, "grade": "Z", "score": 38}, {"date": {"$date": 1398988800000}, "grade": "A", "score": 10}, {"date": {"$date": 1362182400000}, "grade": "B", "score": 7}, {"date": {"$date": 1328832000000}, "grade": "B", "score": 13}], "name": "Brunos On The Boulevard", "restaurant\_id": "40356151"},

{"address": {"building": "2206", "coord": [-74.1377286, 40.6119572], "street": "Victory Boulevard", "zipcode": "10314"}, "borough": "Staten Island", "cuisine": "Jewish/Kosher", "grades": [{"date": {"$date": 1412553600000}, "grade": "B", "score": 9}, {"date": {"$date": 1400544000000}, "grade": "B", "score": 12}, {"date": {"$date": 1365033600000}, "grade": "A", "score": 12}, {"date": {"$date": 1327363200000}, "grade": "A", "score": 9}], "name": "Kosher Island", "restaurant\_id": "40356442"},

{"address": {"building": "7114", "coord": [-73.9068506, 40.6199034], "street": "Avenue U", "zipcode": "11234"}, "borough": "Brooklyn", "cuisine": "Delicatessen", "grades": [{"date": {"$date": 1401321600000}, "grade": "A", "score": 10}, {"date": {"$date": 1389657600000}, "grade": "B", "score": 10}, {"date": {"$date": 1375488000000}, "grade": "B", "score": 8}, {"date": {"$date": 1342569600000}, "grade": "A", "score": 10}, {"date": {"$date": 1331251200000}, "grade": "B", "score": 13}, {"date": {"$date": 1318550400000}, "grade": "B", "score": 9}], "name": "Wilken'S Fine Food", "restaurant\_id": "40356483"}])