

Big Data Management: Homework 6

1. `db.restaurants.find({},{"restaurant_id":1,"name":1,"cuisine":1,"_id":0});` The results of the query are shown in the following screenshot. It is possible you have to zoom a little bit to see the results well. I'm sorry for that.

```
> db.restaurants.find({},{"restaurant_id":1,"name":1,"cuisine":1,"_id":0});
{"cuisine": "Jewish/Kosher", "name": "Kosher Island", "restaurant_id": "40356442" }
{"cuisine": "Hamburgers", "name": "Wendy'S", "restaurant_id": "30112340" }
{"cuisine": "American ", "name": "Brunos On The Boulevard", "restaurant_id": "40356151" }
{"cuisine": "Jewish/Kosher", "name": "Tov Kosher Kitchen", "restaurant_id": "40356068" }
{"cuisine": "Bakery", "name": "Morris Park Bake Shop", "restaurant_id": "30075445" }
{"cuisine": "Irish", "name": "Dj Reynolds Pub And Restaurant", "restaurant_id": "30191841" }
{"cuisine": "American ", "name": "Riviera Caterer", "restaurant_id": "40356018" }
{"cuisine": "American ", "name": "Wild Asia", "restaurant_id": "40357217" }
{"cuisine": "Ice Cream, Gelato, Yogurt, Ices", "name": "Taste The Tropics Ice Cream", "restaurant_id": "40356731" }
{"cuisine": "American ", "name": "Regina Caterers", "restaurant_id": "40356649" }
{"cuisine": "Chinese", "name": "May May Kitchen", "restaurant_id": "40358429" }
{"cuisine": "American ", "name": "C & C Catering Service", "restaurant_id": "40357437" }
{"cuisine": "American ", "name": "1 East 66Th Street Kitchen", "restaurant_id": "40359480" }
{"cuisine": "Delicatessen", "name": "Wilken'S Fine Food", "restaurant_id": "40356483" }
{"cuisine": "Ice Cream, Gelato, Yogurt, Ices", "name": "Carvel Ice Cream", "restaurant_id": "40361322" }
{"cuisine": "Jewish/Kosher", "name": "Seuda Foods", "restaurant_id": "40360045" }
{"cuisine": "Delicatessen", "name": "Nordic Delicacies", "restaurant_id": "40361390" }
{"cuisine": "American ", "name": "The Movable Feast", "restaurant_id": "40361606" }
{"cuisine": "American ", "name": "Glorious Food", "restaurant_id": "40361521" }
{"cuisine": "Delicatessen", "name": "Sal'S Deli", "restaurant_id": "40361618" }
Type "it" for more
```

2. `db.restaurants.find({"grades.score":{$gt: 85}});` The results of the query are shown in the following screenshot.

```
> db.restaurants.find({"grades.score":{$gt: 85}});
{"_id": ObjectId("5d9ef9b57d0d761ed9b7cde4"), "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("5d9ef9b57d0d761ed9b7cd86"), "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("5d9ef9b57d0d761ed9b7ceea"), "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("5d9ef9b57d0d761ed9b7d754"), "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("5d9ef9c544f387fdd9d59770"), "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("5d9ef9c544f387fdd9d59812"), "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("5d9ef9c544f387fdd9d59975"), "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("5d9ef9c544f387fdd9d5a1e0"), "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" }
```

3. `db.restaurants.find({$and:[{"cuisine":{$ne:"American"}},{ "grades.grade":"A"}, {"borough":{$ne:"Brooklyn"}}]).sort({"cuisine":-1});` The results of the query are shown in the following screenshot.


```

> db.restaurants.find({$and:[{$cuisine:{$ne:'American'}},{grades.grade:"A"},{$borough:{$ne:'Brooklyn'}}]}).sort({"cuisine":-1});
{ "_id" : ObjectId("5d9ef9b57d0d761ed9b7d293"), "address" : { "building" : "89", "coord" : [ -73.9995899, 40.7168015 ], "street" : "Baxter Street", "zipcode" : "10013" }, "borough" : "Manhattan", "cuisine" : "Vietnamese/Cambodian/Malaysia", "grades" : [ { "date" : ISODate("2014-08-21T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2013-08-31T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2013-04-11T00:00:00Z"), "grade" : "C", "score" : 3 }, { "date" : ISODate("2012-10-17T00:00:00Z"), "grade" : "A", "score" : 4 }, { "date" : ISODate("2012-05-15T00:00:00Z"), "grade" : "A", "score" : 10 } ], "name" : "Thai Son", "restaurant_id" : "40559606" }
{ "_id" : ObjectId("5d9ef9b57d0d761ed9b7d34a"), "address" : { "building" : "8278", "coord" : [ -73.88143599999999, 40.7412552 ], "street" : "Broadway", "zipcode" : "11373" }, "borough" : "Queens", "cuisine" : "Vietnamese/Cambodian/Malaysia", "grades" : [ { "date" : ISODate("2014-06-12T00:00:00Z"), "grade" : "B", "score" : 21 }, { "date" : ISODate("2013-05-20T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2012-12-26T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2012-12-03T00:00:00Z"), "grade" : "B", "score" : 5 }, { "date" : ISODate("2012-05-04T00:00:00Z"), "grade" : "B", "score" : 27 } ], "name" : "Pho Bac Vietnamese Seafood Cuisine", "restaurant_id" : "40578058" }
{ "_id" : ObjectId("5d9ef9b57d0d761ed9b7d735"), "address" : { "building" : "148", "coord" : [ -74.000254, 40.7172727 ], "street" : "Centre Street", "zipcode" : "10013" }, "borough" : "Manhattan", "cuisine" : "Vietnamese/Cambodian/Malaysia", "grades" : [ { "date" : ISODate("2014-10-01T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2014-05-19T00:00:00Z"), "grade" : "C", "score" : 5 }, { "date" : ISODate("2013-11-15T00:00:00Z"), "grade" : "B", "score" : 14 }, { "date" : ISODate("2013-03-08T00:00:00Z"), "grade" : "B", "score" : 25 }, { "date" : ISODate("2012-05-22T00:00:00Z"), "grade" : "B", "score" : 23 }, { "date" : ISODate("2011-10-27T00:00:00Z"), "grade" : "A", "score" : 9 } ], "name" : "Nha-Trang Centre Vietnam Restaurant", "restaurant_id" : "40751226" }
{ "_id" : ObjectId("5d9ef9c544f387fdd9d59d1e"), "address" : { "building" : "89", "coord" : [ -73.9995899, 40.7168015 ], "street" : "Baxter Street", "zipcode" : "10013" }, "borough" : "Manhattan", "cuisine" : "Vietnamese/Cambodian/Malaysia", "grades" : [ { "date" : ISODate("2014-08-21T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2013-08-31T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2013-04-11T00:00:00Z"), "grade" : "C", "score" : 3 }, { "date" : ISODate("2012-10-17T00:00:00Z"), "grade" : "A", "score" : 4 }, { "date" : ISODate("2012-05-15T00:00:00Z"), "grade" : "A", "score" : 10 } ], "name" : "Thai Son", "restaurant_id" : "40559606" }
{ "_id" : ObjectId("5d9ef9c544f387fdd9d59dd7"), "address" : { "building" : "8278", "coord" : [ -73.88143599999999, 40.7412552 ], "street" : "Broadway", "zipcode" : "11373" }, "borough" : "Queens", "cuisine" : "Vietnamese/Cambodian/Malaysia", "grades" : [ { "date" : ISODate("2014-06-12T00:00:00Z"), "grade" : "B", "score" : 21 }, { "date" : ISODate("2013-05-20T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2012-12-26T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2012-12-03T00:00:00Z"), "grade" : "B", "score" : 5 }, { "date" : ISODate("2012-05-04T00:00:00Z"), "grade" : "B", "score" : 27 } ], "name" : "Pho Bac Vietnamese Seafood Cuisine", "restaurant_id" : "40578058" }
{ "_id" : ObjectId("5d9ef9c544f387fdd9d5a1d0"), "address" : { "building" : "148", "coord" : [ -74.000254, 40.7172727 ], "street" : "Centre Street", "zipcode" : "10013" }, "borough" : "Manhattan", "cuisine" : "Vietnamese/Cambodian/Malaysia", "grades" : [ { "date" : ISODate("2014-10-01T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2014-05-19T00:00:00Z"), "grade" : "C", "score" : 5 }, { "date" : ISODate("2013-11-15T00:00:00Z"), "grade" : "B", "score" : 14 }, { "date" : ISODate("2013-03-08T00:00:00Z"), "grade" : "B", "score" : 25 }, { "date" : ISODate("2012-05-22T00:00:00Z"), "grade" : "B", "score" : 23 }, { "date" : ISODate("2011-10-27T00:00:00Z"), "grade" : "A", "score" : 9 } ], "name" : "Nha-Trang Centre Vietnam Restaurant", "restaurant_id" : "40751226" }
{ "_id" : ObjectId("5d9ef9b57d0d761ed9b7ce35"), "address" : { "building" : "300", "coord" : [ -73.98568, 40.7307496 ], "street" : "East 12 Street", "zipcode" : "10003" }, "borough" : "Manhattan", "cuisine" : "Vegetarian", "grades" : [ { "date" : ISODate("2014-02-05T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2013-04-24T00:00:00Z"), "grade" : "B", "score" : 10 }, { "date" : ISODate("2012-01-17T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2011-07-25T00:00:00Z"), "grade" : "A", "score" : 10 } ], "name" : "Angelica Kitchen", "restaurant_id" : "40388211" }
{ "_id" : ObjectId("5d9ef9b57d0d761ed9b7cfae"), "address" : { "building" : "1307", "coord" : [ -73.9589834, 40.77141839999999 ], "street" : "3 Avenue", "zipcode" : "10021" }, "borough" : "Manhattan", "cuisine" : "Vegetarian", "grades" : [ { "date" : ISODate("2014-12-03T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2014-02-18T00:00:00Z"), "grade" : "B", "score" : 22 }, { "date" : ISODate("2013-06-25T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2012-06-28T00:00:00Z"), "grade" : "A", "score" : 12 } ], "name" : "Candle Cafe", "restaurant_id" : "40399007" }
{ "_id" : ObjectId("5d9ef9b57d0d761ed9b7d153"), "address" : { "building" : "547", "coord" : [ -92.7292446, 41.7461746 ], "street" : "6 Avenue", "zipcode" : "10011" }, "borough" : "Manhattan", "cuisine" : "Vegetarian", "grades" : [ { "date" : ISODate("2014-09-26T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2014-04-07T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2013-10-03T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2012-09-10T00:00:00Z"), "grade" : "A", "score" : 13 } ], "name" : "Candle Cafe", "restaurant_id" : "40399007" }

```

4. db.restaurants.find({\$and:[{"address.coord.1":{"\$gt:40}},{"address.coord.1":{"\$lt:50}}]},"restaurant_id":1,"name":1,"address":1,"_id":0}); The results of the query are shown in the following screenshot.

```

> db.restaurants.find({$and:[{"address.coord.1":{"$gt:40}},{"address.coord.1":{"$lt:50}}]},"restaurant_id":1,"name":1,"address":1,"_id":0});
{ "address" : { "building" : "2206", "coord" : [ -74.1377286, 40.6119572 ], "street" : "Victory Boulevard", "zipcode" : "10314", "name" : "Kosher Island", "restaurant_id" : "40356442" }, "name" : "Kosher Island", "restaurant_id" : "40356442" }
{ "address" : { "building" : "469", "coord" : [ -73.961704, 40.662942 ], "street" : "Flatbush Avenue", "zipcode" : "11225", "name" : "Wendy'S", "restaurant_id" : "3011234" }, "name" : "Wendy'S", "restaurant_id" : "3011234" }
{ "address" : { "building" : "8825", "coord" : [ -73.8883827, 40.7643124 ], "street" : "Astoria Boulevard", "zipcode" : "11369", "name" : "Brunos On The Boulevard", "restaurant_id" : "40356151" }, "name" : "Brunos On The Boulevard", "restaurant_id" : "40356151" }
{ "address" : { "building" : "97-22", "coord" : [ -73.8601152, 40.7311739 ], "street" : "63 Road", "zipcode" : "11374", "name" : "Tov Kosher Kitchen", "restaurant_id" : "40356068" }, "name" : "Tov Kosher Kitchen", "restaurant_id" : "40356068" }
{ "address" : { "building" : "1007", "coord" : [ -73.856077, 40.848447 ], "street" : "Morris Park Ave", "zipcode" : "10462", "name" : "Morris Park Bake Shop", "restaurant_id" : "30075445" }, "name" : "Morris Park Bake Shop", "restaurant_id" : "30075445" }
{ "address" : { "building" : "351", "coord" : [ -73.98513559999999, 40.7676919 ], "street" : "West 57 Street", "zipcode" : "10019", "name" : "Dj Reynolds Pub And Restaurant", "restaurant_id" : "30191841" }, "name" : "Dj Reynolds Pub And Restaurant", "restaurant_id" : "30191841" }
{ "address" : { "building" : "2780", "coord" : [ -73.98241999999999, 40.579505 ], "street" : "Stillwell Avenue", "zipcode" : "11224", "name" : "Riviera Caterer", "restaurant_id" : "40356018" }, "name" : "Riviera Caterer", "restaurant_id" : "40356018" }
{ "address" : { "building" : "2300", "coord" : [ -73.8786113, 40.8502883 ], "street" : "Southern Boulevard", "zipcode" : "10460", "name" : "Wild Asia", "restaurant_id" : "40357217" }, "name" : "Wild Asia", "restaurant_id" : "40357217" }
{ "address" : { "building" : "1839", "coord" : [ -73.9482609, 40.6408271 ], "street" : "Nostrand Avenue", "zipcode" : "11226", "name" : "Taste The Tropics Ice Cream", "restaurant_id" : "40356731" }, "name" : "Taste The Tropics Ice Cream", "restaurant_id" : "40356731" }
{ "address" : { "building" : "6409", "coord" : [ -74.00528899999999, 40.628886 ], "street" : "11 Avenue", "zipcode" : "11219", "name" : "Regina Caterers", "restaurant_id" : "40356649" }, "name" : "Regina Caterers", "restaurant_id" : "40356649" }
{ "address" : { "building" : "1269", "coord" : [ -73.871194, 40.6730975 ], "street" : "Sutter Avenue", "zipcode" : "11208", "name" : "May May Kitchen", "restaurant_id" : "40356429" }, "name" : "May May Kitchen", "restaurant_id" : "40356429" }
{ "address" : { "building" : "7715", "coord" : [ -73.9973325, 40.61174889999999 ], "street" : "18 Avenue", "zipcode" : "11214", "name" : "C & C Catering Service", "restaurant_id" : "40357437" }, "name" : "C & C Catering Service", "restaurant_id" : "40357437" }
{ "address" : { "building" : "1", "coord" : [ -73.96926909999999, 40.7685235 ], "street" : "East 66 Street", "zipcode" : "10065", "name" : "1 East 66Th Street Kitchen", "restaurant_id" : "40359480" }, "name" : "1 East 66Th Street Kitchen", "restaurant_id" : "40359480" }
{ "address" : { "building" : "7114", "coord" : [ -73.9068506, 40.6199034 ], "street" : "Avenue U", "zipcode" : "11234", "name" : "Wilken'S Fine Food", "restaurant_id" : "40356483" }, "name" : "Wilken'S Fine Food", "restaurant_id" : "40356483" }
{ "address" : { "building" : "265-15", "coord" : [ -73.7032601, 40.7386417 ], "street" : "Hillside Avenue", "zipcode" : "11004", "name" : "Carvel Ice Cream", "restaurant_id" : "40361322" }, "name" : "Carvel Ice Cream", "restaurant_id" : "40361322" }
{ "address" : { "building" : "705", "coord" : [ -73.9653967, 40.6064339 ], "street" : "Kings Highway", "zipcode" : "11223", "name" : "Seuda Foods", "restaurant_id" : "40360045" }, "name" : "Seuda Foods", "restaurant_id" : "40360045" }
{ "address" : { "building" : "6909", "coord" : [ -74.0259567, 40.6353674 ], "street" : "3 Avenue", "zipcode" : "11209", "name" : "Nordic Delicacies", "restaurant_id" : "40361390" }, "name" : "Nordic Delicacies", "restaurant_id" : "40361390" }
{ "address" : { "building" : "284", "coord" : [ -73.9829239, 40.6580753 ], "street" : "Prospect Park West", "zipcode" : "11215", "name" : "The Movable Feast", "restaurant_id" : "40361606" }, "name" : "The Movable Feast", "restaurant_id" : "40361606" }
{ "address" : { "building" : "522", "coord" : [ -73.95171, 40.767461 ], "street" : "East 74 Street", "zipcode" : "10021", "name" : "Glorious Food", "restaurant_id" : "40361521" }, "name" : "Glorious Food", "restaurant_id" : "40361521" }
{ "address" : { "building" : "129-08", "coord" : [ -73.839297, 40.78147 ], "street" : "20 Avenue", "zipcode" : "11356", "name" : "Sal'S Deli", "restaurant_id" : "40361618" }, "name" : "Sal'S Deli", "restaurant_id" : "40361618" }

```

5. A
6. C and E
7. A
8. A and E
9. Not to be done
10. Not to be done

11.

- a. Yes, it is possible to do schema mediation in Global-as-View and the solution is provided below.

```
CREATE VIEW CUSTOMER AS
SELECT ID, full_name AS name, region AS state_name
FROM S1.Customer
```

```
UNION
```

```
SELECT ID, CONCAT(first_name, last_name) AS name, region_name AS
state_name
FROM S2.Customer, S2.Region
WHERE S2.Customer.region_code = S2.Region.region_code
```

- b. The requested query is provided below and can be answered with the previously created view.

```
SELECT name
FROM CUSTOMER
WHERE state_name = "Helsinki"
```