

## MongoDB:-

1. Write a MongoDB query to display all the documents in the collection restaurants

Ans:-

```
db.samplerestaurant.find().pretty();

{
  "_id" : ObjectId("6443942e421d36aff7b8c3a8"),
  "address" : {
    "building" : "351",
    "coord" : [
      -73.98513559999999,
      40.7676919
    ],
    "street" : "West 57 Street",
    "zipcode" : "10019"
  },
  "borough" : "Manhattan",
  "cuisine" : "Irish",
  "grades" : [
    {
      "date" : ISODate("2014-09-06T00:00:00Z"),
      "grade" : "A",
      "score" : 2
    },
    {
      "date" : ISODate("2013-07-22T00:00:00Z"),
      "grade" : "A",
      "score" : 11
    }
  ]
}
```

```
        "date" : ISODate("2012-07-31T00:00:00Z"),
        "grade" : "A",
        "score" : 12
    },
    {
        "date" : ISODate("2011-12-29T00:00:00Z"),
        "grade" : "A",
        "score" : 12
    }
],
"name" : "Dj Reynolds Pub And Restaurant",
"restaurant_id" : "30191841"
}
{
    "_id" : ObjectId("6443942e421d36aff7b8c3a9"),
    "address" : {
        "building" : "469",
        "coord" : [
            -73.961704,
            40.662942
        ],
        "street" : "Flatbush Avenue",
        "zipcode" : "11225"
    },
    "borough" : "Brooklyn",
    "cuisine" : "Hamburgers",
    "grades" : [
        {
            "date" : ISODate("2014-12-30T00:00:00Z"),
```

```
        "grade" : "A",
        "score" : 8
    },
    {
        "date" : ISODate("2014-07-01T00:00:00Z"),
        "grade" : "B",
        "score" : 23
    },
    {
        "date" : ISODate("2013-04-30T00:00:00Z"),
        "grade" : "A",
        "score" : 12
    },
    {
        "date" : ISODate("2012-05-08T00:00:00Z"),
        "grade" : "A",
        "score" : 12
    }
],
"name" : "Wendy'S",
"restaurant_id" : "30112340"
}
{
    "_id" : ObjectId("6443942e421d36aff7b8c3aa"),
    "address" : {
        "building" : "7114",
        "coord" : [
            -73.9068506,
            40.6199034
```

```
],
"street" : "Avenue U",
"zipcode" : "11234"
},
"borough" : "Brooklyn",
"cuisine" : "Delicatessen",
"grades" : [
{
    "date" : ISODate("2014-05-29T00:00:00Z"),
    "grade" : "A",
    "score" : 10
},
{
    "date" : ISODate("2014-01-14T00:00:00Z"),
    "grade" : "A",
    "score" : 10
},
{
    "date" : ISODate("2013-08-03T00:00:00Z"),
    "grade" : "A",
    "score" : 8
},
{
    "date" : ISODate("2012-07-18T00:00:00Z"),
    "grade" : "A",
    "score" : 10
},
{
    "date" : ISODate("2012-03-09T00:00:00Z"),
```

```
        "grade" : "A",
        "score" : 13
    },
    {
        "date" : ISODate("2011-10-14T00:00:00Z"),
        "grade" : "A",
        "score" : 9
    }
],
"name" : "Wilken'S Fine Food",
"restaurant_id" : "40356483"
}
{
    "_id" : ObjectId("6443942e421d36aff7b8c3ab"),
    "address" : {
        "building" : "6409",
        "coord" : [
            -74.00528899999999,
            40.628886
        ],
        "street" : "11 Avenue",
        "zipcode" : "11219"
    },
    "borough" : "Brooklyn",
    "cuisine" : "American",
    "grades" : [
        {
            "date" : ISODate("2014-07-18T00:00:00Z"),
            "grade" : "A",
```

```
        "score" : 12
    },
    {
        "date" : ISODate("2013-07-30T00:00:00Z"),
        "grade" : "A",
        "score" : 12
    },
    {
        "date" : ISODate("2013-02-13T00:00:00Z"),
        "grade" : "A",
        "score" : 11
    },
    {
        "date" : ISODate("2012-08-16T00:00:00Z"),
        "grade" : "A",
        "score" : 2
    },
    {
        "date" : ISODate("2011-08-17T00:00:00Z"),
        "grade" : "A",
        "score" : 11
    }
],
"name" : "Regina Caterers",
"restaurant_id" : "40356649"
}
{
    "_id" : ObjectId("6443942e421d36aff7b8c3ac"),
    "address" : {
```

```
"building" : "7715",
"coord" : [
    -73.9973325,
    40.61174889999999
],
"street" : "18 Avenue",
"zipcode" : "11214"
},
"borough" : "Brooklyn",
"cuisine" : "American",
"grades" : [
{
    "date" : ISODate("2014-04-16T00:00:00Z"),
    "grade" : "A",
    "score" : 5
},
{
    "date" : ISODate("2013-04-23T00:00:00Z"),
    "grade" : "A",
    "score" : 2
},
{
    "date" : ISODate("2012-04-24T00:00:00Z"),
    "grade" : "A",
    "score" : 5
},
{
    "date" : ISODate("2011-12-16T00:00:00Z"),
    "grade" : "A",
```

```
        "score" : 2
    }
],
    "name" : "C & C Catering Service",
    "restaurant_id" : "40357437"
}
{
    "_id" : ObjectId("6443942e421d36aff7b8c3ad"),
    "address" : {
        "building" : "1839",
        "coord" : [
            -73.9482609,
            40.6408271
        ],
        "street" : "Nostrand Avenue",
        "zipcode" : "11226"
    },
    "borough" : "Brooklyn",
    "cuisine" : "Ice Cream, Gelato, Yogurt, Ices",
    "grades" : [
        {
            "date" : ISODate("2014-07-14T00:00:00Z"),
            "grade" : "A",
            "score" : 12
        },
        {
            "date" : ISODate("2013-07-10T00:00:00Z"),
            "grade" : "A",
            "score" : 8
        }
    ]
}
```



```
    },
    {
      "date" : ISODate("2012-07-11T00:00:00Z"),
      "grade" : "A",
      "score" : 5
    },
    {
      "date" : ISODate("2012-02-23T00:00:00Z"),
      "grade" : "A",
      "score" : 8
    }
  ],
  "name" : "Taste The Tropics Ice Cream",
  "restaurant_id" : "40356731"
}
{
  "_id" : ObjectId("6443942e421d36aff7b8c3ae"),
  "address" : {
    "building" : "2300",
    "coord" : [
      -73.8786113,
      40.8502883
    ],
    "street" : "Southern Boulevard",
    "zipcode" : "10460"
  },
  "borough" : "Bronx",
  "cuisine" : "American",
  "grades" : [
```

```
{
  "date" : ISODate("2014-05-28T00:00:00Z"),
  "grade" : "A",
  "score" : 11
},
{
  "date" : ISODate("2013-06-19T00:00:00Z"),
  "grade" : "A",
  "score" : 4
},
{
  "date" : ISODate("2012-06-15T00:00:00Z"),
  "grade" : "A",
  "score" : 3
}
],
"name" : "Wild Asia",
"restaurant_id" : "40357217"
}
{
  "_id" : ObjectId("6443942e421d36aff7b8c3af"),
  "address" : {
    "building" : "2780",
    "coord" : [
      -73.982419999999999,
      40.579505
    ],
    "street" : "Stillwell Avenue",
    "zipcode" : "11224"
```

```
},
"borough" : "Brooklyn",
"cuisine" : "American",
"grades" : [
{
    "date" : ISODate("2014-06-10T00:00:00Z"),
    "grade" : "A",
    "score" : 5
},
{
    "date" : ISODate("2013-06-05T00:00:00Z"),
    "grade" : "A",
    "score" : 7
},
{
    "date" : ISODate("2012-04-13T00:00:00Z"),
    "grade" : "A",
    "score" : 12
},
{
    "date" : ISODate("2011-10-12T00:00:00Z"),
    "grade" : "A",
    "score" : 12
}
],
"name" : "Riviera Caterer",
"restaurant_id" : "40356018"
}
{
```

```
"_id" : ObjectId("6443942e421d36aff7b8c3b0"),
"address" : {
  "building" : "1269",
  "coord" : [
    -73.871194,
    40.6730975
  ],
  "street" : "Sutter Avenue",
  "zipcode" : "11208"
},
"borough" : "Brooklyn",
"cuisine" : "Chinese",
"grades" : [
  {
    "date" : ISODate("2014-09-16T00:00:00Z"),
    "grade" : "B",
    "score" : 21
  },
  {
    "date" : ISODate("2013-08-28T00:00:00Z"),
    "grade" : "A",
    "score" : 7
  },
  {
    "date" : ISODate("2013-04-02T00:00:00Z"),
    "grade" : "C",
    "score" : 56
  },
  {
```

```
        "date" : ISODate("2012-08-15T00:00:00Z"),
        "grade" : "B",
        "score" : 27
    },
    {
        "date" : ISODate("2012-03-28T00:00:00Z"),
        "grade" : "B",
        "score" : 27
    }
],
"name" : "May May Kitchen",
"restaurant_id" : "40358429"
}
{
    "_id" : ObjectId("6443942e421d36aff7b8c3b1"),
    "address" : {
        "building" : "97-22",
        "coord" : [
            -73.8601152,
            40.7311739
        ],
        "street" : "63 Road",
        "zipcode" : "11374"
    },
    "borough" : "Queens",
    "cuisine" : "Jewish/Kosher",
    "grades" : [
        {
            "date" : ISODate("2014-11-24T00:00:00Z"),
```

```
        "grade" : "Z",
        "score" : 20
    },
    {
        "date" : ISODate("2013-01-17T00:00:00Z"),
        "grade" : "A",
        "score" : 13
    },
    {
        "date" : ISODate("2012-08-02T00:00:00Z"),
        "grade" : "A",
        "score" : 13
    },
    {
        "date" : ISODate("2011-12-15T00:00:00Z"),
        "grade" : "B",
        "score" : 25
    }
],
"name" : "Tov Kosher Kitchen",
"restaurant_id" : "40356068"
}
{
    "_id" : ObjectId("6443942e421d36aff7b8c3b2"),
    "address" : {
        "building" : "1",
        "coord" : [
            -73.96926909999999,
            40.7685235
```

```
],
"street" : "East 66 Street",
"zipcode" : "10065"
},
"borough" : "Manhattan",
"cuisine" : "American",
"grades" : [
{
    "date" : ISODate("2014-05-07T00:00:00Z"),
    "grade" : "A",
    "score" : 3
},
{
    "date" : ISODate("2013-05-03T00:00:00Z"),
    "grade" : "A",
    "score" : 4
},
{
    "date" : ISODate("2012-04-30T00:00:00Z"),
    "grade" : "A",
    "score" : 6
},
{
    "date" : ISODate("2011-12-27T00:00:00Z"),
    "grade" : "A",
    "score" : 0
}
],
"name" : "1 East 66Th Street Kitchen",
```

```
"restaurant_id" : "40359480"
}
{
  "_id" : ObjectId("6443942e421d36aff7b8c3b3"),
  "address" : {
    "building" : "265-15",
    "coord" : [
      -73.7032601,
      40.7386417
    ],
    "street" : "Hillside Avenue",
    "zipcode" : "11004"
  },
  "borough" : "Queens",
  "cuisine" : "Ice Cream, Gelato, Yogurt, Ices",
  "grades" : [
    {
      "date" : ISODate("2014-10-28T00:00:00Z"),
      "grade" : "A",
      "score" : 9
    },
    {
      "date" : ISODate("2013-09-18T00:00:00Z"),
      "grade" : "A",
      "score" : 10
    },
    {
      "date" : ISODate("2012-09-20T00:00:00Z"),
      "grade" : "A",
```



```
        "score" : 13
    }
],
    "name" : "Carvel Ice Cream",
    "restaurant_id" : "40361322"
}
{
    "_id" : ObjectId("6443942e421d36aff7b8c3b4"),
    "address" : {
        "building" : "8825",
        "coord" : [
            -73.8803827,
            40.7643124
        ],
        "street" : "Astoria Boulevard",
        "zipcode" : "11369"
    },
    "borough" : "Queens",
    "cuisine" : "American",
    "grades" : [
        {
            "date" : ISODate("2014-11-15T00:00:00Z"),
            "grade" : "Z",
            "score" : 38
        },
        {
            "date" : ISODate("2014-05-02T00:00:00Z"),
            "grade" : "A",
            "score" : 10
        }
    ]
}
```

```
    },
    {
      "date" : ISODate("2013-03-02T00:00:00Z"),
      "grade" : "A",
      "score" : 7
    },
    {
      "date" : ISODate("2012-02-10T00:00:00Z"),
      "grade" : "A",
      "score" : 13
    }
  ],
  "name" : "Brunos On The Boulevard",
  "restaurant_id" : "40356151"
}
{
  "_id" : ObjectId("6443942e421d36aff7b8c3b5"),
  "address" : {
    "building" : "705",
    "coord" : [
      -73.9653967,
      40.6064339
    ],
    "street" : "Kings Highway",
    "zipcode" : "11223"
  },
  "borough" : "Brooklyn",
  "cuisine" : "Jewish/Kosher",
  "grades" : [
```

```
{
  "date" : ISODate("2014-11-10T00:00:00Z"),
  "grade" : "A",
  "score" : 11
},
{
  "date" : ISODate("2013-10-10T00:00:00Z"),
  "grade" : "A",
  "score" : 13
},
{
  "date" : ISODate("2012-10-04T00:00:00Z"),
  "grade" : "A",
  "score" : 7
},
{
  "date" : ISODate("2012-05-21T00:00:00Z"),
  "grade" : "A",
  "score" : 9
},
{
  "date" : ISODate("2011-12-30T00:00:00Z"),
  "grade" : "B",
  "score" : 19
}
],
"name" : "Seuda Foods",
"restaurant_id" : "40360045"
}
```

```
{
  "_id" : ObjectId("6443942e421d36aff7b8c3b6"),
  "address" : {
    "building" : "1007",
    "coord" : [
      -73.856077,
      40.848447
    ],
    "street" : "Morris Park Ave",
    "zipcode" : "10462"
  },
  "borough" : "Bronx",
  "cuisine" : "Bakery",
  "grades" : [
    {
      "date" : ISODate("2014-03-03T00:00:00Z"),
      "grade" : "A",
      "score" : 2
    },
    {
      "date" : ISODate("2013-09-11T00:00:00Z"),
      "grade" : "A",
      "score" : 6
    },
    {
      "date" : ISODate("2013-01-24T00:00:00Z"),
      "grade" : "A",
      "score" : 10
    }
  ],
```

```
{
  "date" : ISODate("2011-11-23T00:00:00Z"),
  "grade" : "A",
  "score" : 9
},
{
  "date" : ISODate("2011-03-10T00:00:00Z"),
  "grade" : "B",
  "score" : 14
}
],
"name" : "Morris Park Bake Shop",
"restaurant_id" : "30075445"
}
{
  "_id" : ObjectId("6443942e421d36aff7b8c3b7"),
  "address" : {
    "building" : "2206",
    "coord" : [
      -74.1377286,
      40.6119572
    ],
    "street" : "Victory Boulevard",
    "zipcode" : "10314"
  },
  "borough" : "Staten Island",
  "cuisine" : "Jewish/Kosher",
  "grades" : [
    {
```

```
        "date" : ISODate("2014-10-06T00:00:00Z"),
        "grade" : "A",
        "score" : 9
    },
    {
        "date" : ISODate("2014-05-20T00:00:00Z"),
        "grade" : "A",
        "score" : 12
    },
    {
        "date" : ISODate("2013-04-04T00:00:00Z"),
        "grade" : "A",
        "score" : 12
    },
    {
        "date" : ISODate("2012-01-24T00:00:00Z"),
        "grade" : "A",
        "score" : 9
    }
],
"name" : "Kosher Island",
"restaurant_id" : "40356442"
}
{
    "_id" : ObjectId("6443942e421d36aff7b8c3b8"),
    "address" : {
        "building" : "203",
        "coord" : [
            -73.97822040000001,
```

40.6435254

```
],
"street" : "Church Avenue",
"zipcode" : "11218"
},
"borough" : "Brooklyn",
"cuisine" : "Ice Cream, Gelato, Yogurt, Ices",
"grades" : [
{
  "date" : ISODate("2014-02-10T00:00:00Z"),
  "grade" : "A",
  "score" : 2
},
{
  "date" : ISODate("2013-01-02T00:00:00Z"),
  "grade" : "A",
  "score" : 13
},
{
  "date" : ISODate("2012-01-09T00:00:00Z"),
  "grade" : "A",
  "score" : 3
},
{
  "date" : ISODate("2011-11-07T00:00:00Z"),
  "grade" : "P",
  "score" : 12
},
{
```

```
        "date" : ISODate("2011-07-21T00:00:00Z"),
        "grade" : "A",
        "score" : 13
    }
],
    "name" : "Carvel Ice Cream",
    "restaurant_id" : "40360076"
}
{
    "_id" : ObjectId("6443942e421d36aff7b8c3b9"),
    "address" : {
        "building" : "129-08",
        "coord" : [
            -73.839297,
            40.78147
        ],
        "street" : "20 Avenue",
        "zipcode" : "11356"
    },
    "borough" : "Queens",
    "cuisine" : "Delicatessen",
    "grades" : [
        {
            "date" : ISODate("2014-08-16T00:00:00Z"),
            "grade" : "A",
            "score" : 12
        },
        {
            "date" : ISODate("2013-08-27T00:00:00Z"),
```



```
        "grade" : "A",
        "score" : 9
    },
    {
        "date" : ISODate("2012-09-20T00:00:00Z"),
        "grade" : "A",
        "score" : 7
    },
    {
        "date" : ISODate("2011-09-29T00:00:00Z"),
        "grade" : "A",
        "score" : 10
    }
],
"name" : "Sal'S Deli",
"restaurant_id" : "40361618"
}
{
    "_id" : ObjectId("6443942e421d36aff7b8c3ba"),
    "address" : {
        "building" : "3406",
        "coord" : [
            -73.94024739999999,
            40.7623288
        ],
        "street" : "10 Street",
        "zipcode" : "11106"
    },
    "borough" : "Queens",
```

```
"cuisine" : "Delicatessen",
"grades" : [
{
    "date" : ISODate("2014-03-19T00:00:00Z"),
    "grade" : "A",
    "score" : 3
},
{
    "date" : ISODate("2013-03-13T00:00:00Z"),
    "grade" : "A",
    "score" : 12
},
{
    "date" : ISODate("2012-03-27T00:00:00Z"),
    "grade" : "A",
    "score" : 8
},
{
    "date" : ISODate("2011-04-05T00:00:00Z"),
    "grade" : "A",
    "score" : 7
}
],
"name" : "Steve Chu'S Deli & Grocery",
"restaurant_id" : "40361998"
}
{
    "_id" : ObjectId("6443942e421d36aff7b8c3bb"),
    "address" : {
```

```
"building" : "18",
"coord" : [
    -73.996984,
    40.72589
],
"street" : "West Houston Street",
"zipcode" : "10012"
},
"borough" : "Manhattan",
"cuisine" : "American",
"grades" : [
{
    "date" : ISODate("2014-04-03T00:00:00Z"),
    "grade" : "A",
    "score" : 9
},
{
    "date" : ISODate("2013-04-05T00:00:00Z"),
    "grade" : "A",
    "score" : 4
},
{
    "date" : ISODate("2012-03-21T00:00:00Z"),
    "grade" : "A",
    "score" : 13
},
{
    "date" : ISODate("2011-04-27T00:00:00Z"),
    "grade" : "A",
```

```
        "score" : 5
    }
],
    "name" : "Angelika Film Center",
    "restaurant_id" : "40362274"
```

2. Write a MongoDB query to display the fields restaurant\_id, name, borough and cuisine for

all the documents in the collection restaurant.

Ans:-

```
> db.samplerestaurant.find({}, {restaurant_id:1, name:1, borough:1, cuisine:1}).pretty();
```

```
{
  "_id" : ObjectId("6443942e421d36aff7b8c3a8"),
  "borough" : "Manhattan",
  "cuisine" : "Irish",
  "name" : "Dj Reynolds Pub And Restaurant",
  "restaurant_id" : "30191841"
```

```
}
```

```
{
  "_id" : ObjectId("6443942e421d36aff7b8c3a9"),
  "borough" : "Brooklyn",
  "cuisine" : "Hamburgers",
  "name" : "Wendy'S",
  "restaurant_id" : "30112340"
```

```
}
```

```
{
  "_id" : ObjectId("6443942e421d36aff7b8c3aa"),
  "borough" : "Brooklyn",
  "cuisine" : "Delicatessen",
```

```
    "name" : "Wilken'S Fine Food",
    "restaurant_id" : "40356483"
  }
  {
    "_id" : ObjectId("6443942e421d36aff7b8c3ab"),
    "borough" : "Brooklyn",
    "cuisine" : "American",
    "name" : "Regina Caterers",
    "restaurant_id" : "40356649"
  }
  {
    "_id" : ObjectId("6443942e421d36aff7b8c3ac"),
    "borough" : "Brooklyn",
    "cuisine" : "American",
    "name" : "C & C Catering Service",
    "restaurant_id" : "40357437"
  }
  {
    "_id" : ObjectId("6443942e421d36aff7b8c3ad"),
    "borough" : "Brooklyn",
    "cuisine" : "Ice Cream, Gelato, Yogurt, Ices",
    "name" : "Taste The Tropics Ice Cream",
    "restaurant_id" : "40356731"
  }
  {
    "_id" : ObjectId("6443942e421d36aff7b8c3ae"),
    "borough" : "Bronx",
    "cuisine" : "American",
    "name" : "Wild Asia",
```

```
"restaurant_id" : "40357217"
}
{
  "_id" : ObjectId("6443942e421d36aff7b8c3af"),
  "borough" : "Brooklyn",
  "cuisine" : "American",
  "name" : "Riviera Caterer",
  "restaurant_id" : "40356018"
}
{
  "_id" : ObjectId("6443942e421d36aff7b8c3b0"),
  "borough" : "Brooklyn",
  "cuisine" : "Chinese",
  "name" : "May May Kitchen",
  "restaurant_id" : "40358429"
}
{
  "_id" : ObjectId("6443942e421d36aff7b8c3b1"),
  "borough" : "Queens",
  "cuisine" : "Jewish/Kosher",
  "name" : "Tov Kosher Kitchen",
  "restaurant_id" : "40356068"
}
{
  "_id" : ObjectId("6443942e421d36aff7b8c3b2"),
  "borough" : "Manhattan",
  "cuisine" : "American",
  "name" : "1 East 66Th Street Kitchen",
  "restaurant_id" : "40359480"
```

```
}  
  
{  
  "_id" : ObjectId("6443942e421d36aff7b8c3b3"),  
  "borough" : "Queens",  
  "cuisine" : "Ice Cream, Gelato, Yogurt, Ices",  
  "name" : "Carvel Ice Cream",  
  "restaurant_id" : "40361322"  
}  
  
{  
  "_id" : ObjectId("6443942e421d36aff7b8c3b4"),  
  "borough" : "Queens",  
  "cuisine" : "American",  
  "name" : "Brunos On The Boulevard",  
  "restaurant_id" : "40356151"  
}  
  
{  
  "_id" : ObjectId("6443942e421d36aff7b8c3b5"),  
  "borough" : "Brooklyn",  
  "cuisine" : "Jewish/Kosher",  
  "name" : "Seuda Foods",  
  "restaurant_id" : "40360045"  
}  
  
{  
  "_id" : ObjectId("6443942e421d36aff7b8c3b6"),  
  "borough" : "Bronx",  
  "cuisine" : "Bakery",  
  "name" : "Morris Park Bake Shop",  
  "restaurant_id" : "30075445"  
}
```

```
{
  "_id" : ObjectId("6443942e421d36aff7b8c3b7"),
  "borough" : "Staten Island",
  "cuisine" : "Jewish/Kosher",
  "name" : "Kosher Island",
  "restaurant_id" : "40356442"
```

```
}
{
  "_id" : ObjectId("6443942e421d36aff7b8c3b8"),
  "borough" : "Brooklyn",
  "cuisine" : "Ice Cream, Gelato, Yogurt, Ices",
  "name" : "Carvel Ice Cream",
  "restaurant_id" : "40360076"
```

```
}
{
  "_id" : ObjectId("6443942e421d36aff7b8c3b9"),
  "borough" : "Queens",
  "cuisine" : "Delicatessen",
  "name" : "Sal'S Deli",
  "restaurant_id" : "40361618"
```

```
}
{
  "_id" : ObjectId("6443942e421d36aff7b8c3ba"),
  "borough" : "Queens",
  "cuisine" : "Delicatessen",
  "name" : "Steve Chu'S Deli & Grocery",
  "restaurant_id" : "40361998"
```

```
}
```

```
{
```



```
"_id" : ObjectId("6443942e421d36aff7b8c3bb"),
"borough" : "Manhattan",
"cuisine" : "American",
"name" : "Angelika Film Center",
"restaurant_id" : "40362274"
}
```

3. Write a MongoDB query to display the fields restaurant\_id, name, borough and cuisine, but exclude the field \_id for all the documents in the collection restaurant.

Ans:-

```
> db.samplerestaurant.find({}, {restaurant_id:1,name:1,borough:1,cuisine:1,_id:0}).pretty();
{
  "borough" : "Manhattan",
  "cuisine" : "Irish",
  "name" : "Dj Reynolds Pub And Restaurant",
  "restaurant_id" : "30191841"
}
{
  "borough" : "Brooklyn",
  "cuisine" : "Hamburgers",
  "name" : "Wendy'S",
  "restaurant_id" : "30112340"
}
{
  "borough" : "Brooklyn",
  "cuisine" : "Delicatessen",
  "name" : "Wilken'S Fine Food",
  "restaurant_id" : "40356483"
}
```

```
{  
  "borough" : "Brooklyn",  
  "cuisine" : "American",  
  "name" : "Regina Caterers",  
  "restaurant_id" : "40356649"
```

```
}
```

```
{
```

```
  "borough" : "Brooklyn",  
  "cuisine" : "American",  
  "name" : "C & C Catering Service",  
  "restaurant_id" : "40357437"
```

```
}
```

```
{
```

```
  "borough" : "Brooklyn",  
  "cuisine" : "Ice Cream, Gelato, Yogurt, Ices",  
  "name" : "Taste The Tropics Ice Cream",  
  "restaurant_id" : "40356731"
```

```
}
```

```
{
```

```
  "borough" : "Bronx",  
  "cuisine" : "American",  
  "name" : "Wild Asia",  
  "restaurant_id" : "40357217"
```

```
}
```

```
{
```

```
  "borough" : "Brooklyn",  
  "cuisine" : "American",  
  "name" : "Riviera Caterer",  
  "restaurant_id" : "40356018"
```

```
}  
  
{  
  "borough" : "Brooklyn",  
  "cuisine" : "Chinese",  
  "name" : "May May Kitchen",  
  "restaurant_id" : "40358429"  
}  
  
{  
  "borough" : "Queens",  
  "cuisine" : "Jewish/Kosher",  
  "name" : "Tov Kosher Kitchen",  
  "restaurant_id" : "40356068"  
}  
  
{  
  "borough" : "Manhattan",  
  "cuisine" : "American",  
  "name" : "1 East 66Th Street Kitchen",  
  "restaurant_id" : "40359480"  
}  
  
{  
  "borough" : "Queens",  
  "cuisine" : "Ice Cream, Gelato, Yogurt, Ices",  
  "name" : "Carvel Ice Cream",  
  "restaurant_id" : "40361322"  
}  
  
{  
  "borough" : "Queens",  
  "cuisine" : "American",  
  "name" : "Brunos On The Boulevard",
```

```
    "restaurant_id" : "40356151"
  }
  {
    "borough" : "Brooklyn",
    "cuisine" : "Jewish/Kosher",
    "name" : "Seuda Foods",
    "restaurant_id" : "40360045"
  }
  {
    "borough" : "Bronx",
    "cuisine" : "Bakery",
    "name" : "Morris Park Bake Shop",
    "restaurant_id" : "30075445"
  }
  {
    "borough" : "Staten Island",
    "cuisine" : "Jewish/Kosher",
    "name" : "Kosher Island",
    "restaurant_id" : "40356442"
  }
  {
    "borough" : "Brooklyn",
    "cuisine" : "Ice Cream, Gelato, Yogurt, Ices",
    "name" : "Carvel Ice Cream",
    "restaurant_id" : "40360076"
  }
  {
    "borough" : "Queens",
    "cuisine" : "Delicatessen",
```

```

    "name" : "Sal'S Deli",
    "restaurant_id" : "40361618"
  }
  {
    "borough" : "Queens",
    "cuisine" : "Delicatessen",
    "name" : "Steve Chu'S Deli & Grocery",
    "restaurant_id" : "40361998"
  }
  {
    "borough" : "Manhattan",
    "cuisine" : "American",
    "name" : "Angelika Film Center",
    "restaurant_id" : "40362274"
  }
}

```

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

And:-

```

>
db.samplerestaurant.find({}, {restaurant_id:1,name:1,borough:1,"address.zipcode":1,_id:0}).
pretty();
{
  "address" : {
    "zipcode" : "10019"
  },
  "borough" : "Manhattan",
  "name" : "Dj Reynolds Pub And Restaurant",
  "restaurant_id" : "30191841"
}

```

```
{
  "address" : {
    "zipcode" : "11225"
  },
  "borough" : "Brooklyn",
  "name" : "Wendy'S",
  "restaurant_id" : "30112340"
}
{
  "address" : {
    "zipcode" : "11234"
  },
  "borough" : "Brooklyn",
  "name" : "Wilken'S Fine Food",
  "restaurant_id" : "40356483"
}
{
  "address" : {
    "zipcode" : "11219"
  },
  "borough" : "Brooklyn",
  "name" : "Regina Caterers",
  "restaurant_id" : "40356649"
}
{
  "address" : {
    "zipcode" : "11214"
  },
  "borough" : "Brooklyn",
```

```
"name" : "C & C Catering Service",
"restaurant_id" : "40357437"
}
{
  "address" : {
    "zipcode" : "11226"
  },
  "borough" : "Brooklyn",
  "name" : "Taste The Tropics Ice Cream",
  "restaurant_id" : "40356731"
}
{
  "address" : {
    "zipcode" : "10460"
  },
  "borough" : "Bronx",
  "name" : "Wild Asia",
  "restaurant_id" : "40357217"
}
{
  "address" : {
    "zipcode" : "11224"
  },
  "borough" : "Brooklyn",
  "name" : "Riviera Caterer",
  "restaurant_id" : "40356018"
}
{
  "address" : {
```

```
"zipcode" : "11208"
},
"borough" : "Brooklyn",
"name" : "May May Kitchen",
"restaurant_id" : "40358429"
}
{
  "address" : {
    "zipcode" : "11374"
  },
  "borough" : "Queens",
  "name" : "Tov Kosher Kitchen",
  "restaurant_id" : "40356068"
}
{
  "address" : {
    "zipcode" : "10065"
  },
  "borough" : "Manhattan",
  "name" : "1 East 66Th Street Kitchen",
  "restaurant_id" : "40359480"
}
{
  "address" : {
    "zipcode" : "11004"
  },
  "borough" : "Queens",
  "name" : "Carvel Ice Cream",
  "restaurant_id" : "40361322"
```



```
}  
  
{  
  
  "address" : {  
    "zipcode" : "11369"  
  },  
  "borough" : "Queens",  
  "name" : "Brunos On The Boulevard",  
  "restaurant_id" : "40356151"  
}
```

```
{  
  
  "address" : {  
    "zipcode" : "11223"  
  },  
  "borough" : "Brooklyn",  
  "name" : "Seuda Foods",  
  "restaurant_id" : "40360045"  
}
```

```
{  
  
  "address" : {  
    "zipcode" : "10462"  
  },  
  "borough" : "Bronx",  
  "name" : "Morris Park Bake Shop",  
  "restaurant_id" : "30075445"  
}
```

```
{  
  
  "address" : {  
    "zipcode" : "10314"  
  },
```

```
    "borough" : "Staten Island",
    "name" : "Kosher Island",
    "restaurant_id" : "40356442"
  }
  {
    "address" : {
      "zipcode" : "11218"
    },
    "borough" : "Brooklyn",
    "name" : "Carvel Ice Cream",
    "restaurant_id" : "40360076"
  }
  {
    "address" : {
      "zipcode" : "11356"
    },
    "borough" : "Queens",
    "name" : "Sal'S Deli",
    "restaurant_id" : "40361618"
  }
  {
    "address" : {
      "zipcode" : "11106"
    },
    "borough" : "Queens",
    "name" : "Steve Chu'S Deli & Grocery",
    "restaurant_id" : "40361998"
  }
  {
```

```
"address" : {  
  "zipcode" : "10012"  
},  
"borough" : "Manhattan",  
"name" : "Angelika Film Center",  
"restaurant_id" : "40362274"  
}
```

5. Write a MongoDB query to display all the restaurant which is in the borough Bronx

Ans:

```
> db.samplerestaurant.find({borough:'Bronx'}).pretty();  
{  
  "_id" : ObjectId("6443942e421d36aff7b8c3ae"),  
  "address" : {  
    "building" : "2300",  
    "coord" : [  
      -73.8786113,  
      40.8502883  
    ],  
    "street" : "Southern Boulevard",  
    "zipcode" : "10460"  
  },  
  "borough" : "Bronx",  
  "cuisine" : "American",  
  "grades" : [  
    {  
      "date" : ISODate("2014-05-28T00:00:00Z"),  
      "grade" : "A",  
      "score" : 11
```

```
    },
    {
      "date" : ISODate("2013-06-19T00:00:00Z"),
      "grade" : "A",
      "score" : 4
    },
    {
      "date" : ISODate("2012-06-15T00:00:00Z"),
      "grade" : "A",
      "score" : 3
    }
  ],
  "name" : "Wild Asia",
  "restaurant_id" : "40357217"
}
{
  "_id" : ObjectId("6443942e421d36aff7b8c3b6"),
  "address" : {
    "building" : "1007",
    "coord" : [
      -73.856077,
      40.848447
    ],
    "street" : "Morris Park Ave",
    "zipcode" : "10462"
  },
  "borough" : "Bronx",
  "cuisine" : "Bakery",
  "grades" : [
```

```
{
  "date" : ISODate("2014-03-03T00:00:00Z"),
  "grade" : "A",
  "score" : 2
},
{
  "date" : ISODate("2013-09-11T00:00:00Z"),
  "grade" : "A",
  "score" : 6
},
{
  "date" : ISODate("2013-01-24T00:00:00Z"),
  "grade" : "A",
  "score" : 10
},
{
  "date" : ISODate("2011-11-23T00:00:00Z"),
  "grade" : "A",
  "score" : 9
},
{
  "date" : ISODate("2011-03-10T00:00:00Z"),
  "grade" : "B",
  "score" : 14
}
],
"name" : "Morris Park Bake Shop",
"restaurant_id" : "30075445"
}
```

```
{
  "_id" : ObjectId("6443942e421d36aff7b8c3c8"),
  "address" : {
    "building" : "1006",
    "coord" : [
      -73.84856870000002,
      40.8903781
    ],
    "street" : "East 233 Street",
    "zipcode" : "10466"
  },
  "borough" : "Bronx",
  "cuisine" : "Ice Cream, Gelato, Yogurt, Ices",
  "grades" : [
    {
      "date" : ISODate("2014-04-24T00:00:00Z"),
      "grade" : "A",
      "score" : 10
    },
    {
      "date" : ISODate("2013-09-05T00:00:00Z"),
      "grade" : "A",
      "score" : 10
    },
    {
      "date" : ISODate("2013-02-21T00:00:00Z"),
      "grade" : "A",
      "score" : 9
    }
  ],
}
```

```
{
  "date" : ISODate("2012-07-03T00:00:00Z"),
  "grade" : "A",
  "score" : 11
},
{
  "date" : ISODate("2011-07-11T00:00:00Z"),
  "grade" : "A",
  "score" : 5
}
],
"name" : "Carvel Ice Cream",
"restaurant_id" : "40363093"
}
{
  "_id" : ObjectId("6443942e421d36aff7b8c3ca"),
  "address" : {
    "building" : "1236",
    "coord" : [
      -73.8893654,
      40.81376179999999
    ],
    "street" : "238 Spofford Ave",
    "zipcode" : "10474"
  },
  "borough" : "Bronx",
  "cuisine" : "Chinese",
  "grades" : [
    {
```

```
        "date" : ISODate("2013-12-30T00:00:00Z"),
        "grade" : "A",
        "score" : 8
    },
    {
        "date" : ISODate("2013-01-08T00:00:00Z"),
        "grade" : "A",
        "score" : 10
    },
    {
        "date" : ISODate("2012-06-12T00:00:00Z"),
        "grade" : "B",
        "score" : 15
    }
],
"name" : "Happy Garden",
"restaurant_id" : "40363289"
}
{
    "_id" : ObjectId("6443942e421d36aff7b8c3dd"),
    "address" : {
        "building" : "277",
        "coord" : [
            -73.8941893,
            40.8634684
        ],
        "street" : "East Kingsbridge Road",
        "zipcode" : "10458"
    },
    }
```



```
"borough" : "Bronx",
"cuisine" : "Chinese",
"grades" : [
{
    "date" : ISODate("2014-03-03T00:00:00Z"),
    "grade" : "A",
    "score" : 10
},
{
    "date" : ISODate("2013-09-26T00:00:00Z"),
    "grade" : "A",
    "score" : 10
},
{
    "date" : ISODate("2013-03-19T00:00:00Z"),
    "grade" : "A",
    "score" : 10
},
{
    "date" : ISODate("2012-08-29T00:00:00Z"),
    "grade" : "A",
    "score" : 11
},
{
    "date" : ISODate("2011-08-17T00:00:00Z"),
    "grade" : "A",
    "score" : 13
}
],
```

```
"name" : "Happy Garden",
"restaurant_id" : "40364296"
}
{
  "_id" : ObjectId("6443942e421d36aff7b8c3df"),
  "address" : {
    "building" : "658",
    "coord" : [
      -73.81363999999999,
      40.82941100000001
    ],
    "street" : "Clarence Ave",
    "zipcode" : "10465"
  },
  "borough" : "Bronx",
  "cuisine" : "American",
  "grades" : [
    {
      "date" : ISODate("2014-06-21T00:00:00Z"),
      "grade" : "A",
      "score" : 5
    },
    {
      "date" : ISODate("2012-07-11T00:00:00Z"),
      "grade" : "A",
      "score" : 10
    }
  ],
  "name" : "Manhem Club",
```

```
"restaurant_id" : "40364363"
}
{
  "_id" : ObjectId("6443942e421d36aff7b8c3f9"),
  "address" : {
    "building" : "2222",
    "coord" : [
      -73.84971759999999,
      40.8304811
    ],
    "street" : "Haviland Avenue",
    "zipcode" : "10462"
  },
  "borough" : "Bronx",
  "cuisine" : "American",
  "grades" : [
    {
      "date" : ISODate("2014-12-18T00:00:00Z"),
      "grade" : "A",
      "score" : 7
    },
    {
      "date" : ISODate("2014-05-01T00:00:00Z"),
      "grade" : "B",
      "score" : 17
    },
    {
      "date" : ISODate("2013-03-14T00:00:00Z"),
      "grade" : "A",
```

```
        "score" : 12
    },
    {
        "date" : ISODate("2012-09-20T00:00:00Z"),
        "grade" : "A",
        "score" : 9
    },
    {
        "date" : ISODate("2012-02-08T00:00:00Z"),
        "grade" : "B",
        "score" : 19
    }
],
"name" : "The New Starling Athletic Club Of The Bronx",
"restaurant_id" : "40364956"
}
{
    "_id" : ObjectId("6443942e421d36aff7b8c415"),
    "address" : {
        "building" : "72",
        "coord" : [
            -73.92506,
            40.8275556
        ],
        "street" : "East 161 Street",
        "zipcode" : "10451"
    },
    "borough" : "Bronx",
    "cuisine" : "American",
```

```
"grades" : [  
  {  
    "date" : ISODate("2014-04-15T00:00:00Z"),  
    "grade" : "A",  
    "score" : 9  
  },  
  {  
    "date" : ISODate("2013-11-14T00:00:00Z"),  
    "grade" : "A",  
    "score" : 4  
  },  
  {  
    "date" : ISODate("2013-07-29T00:00:00Z"),  
    "grade" : "A",  
    "score" : 10  
  },  
  {  
    "date" : ISODate("2012-12-31T00:00:00Z"),  
    "grade" : "B",  
    "score" : 15  
  },  
  {  
    "date" : ISODate("2012-05-30T00:00:00Z"),  
    "grade" : "A",  
    "score" : 13  
  },  
  {  
    "date" : ISODate("2012-01-09T00:00:00Z"),  
    "grade" : "A",  
  }  
]
```

```
        "score" : 10
    },
    {
        "date" : ISODate("2011-08-15T00:00:00Z"),
        "grade" : "C",
        "score" : 37
    }
],
"name" : "Yankee Tavern",
"restaurant_id" : "40365499"
}
{
    "_id" : ObjectId("6443942e421d36aff7b8c42c"),
    "address" : {
        "building" : "331",
        "coord" : [
            -73.87786539999999,
            40.8724377
        ],
        "street" : "East 204 Street",
        "zipcode" : "10467"
    },
    "borough" : "Bronx",
    "cuisine" : "Irish",
    "grades" : [
        {
            "date" : ISODate("2014-08-26T00:00:00Z"),
            "grade" : "A",
            "score" : 10
        }
    ]
}
```

```
    },
    {
      "date" : ISODate("2014-03-26T00:00:00Z"),
      "grade" : "B",
      "score" : 23
    },
    {
      "date" : ISODate("2013-09-11T00:00:00Z"),
      "grade" : "A",
      "score" : 13
    },
    {
      "date" : ISODate("2012-12-18T00:00:00Z"),
      "grade" : "B",
      "score" : 27
    },
    {
      "date" : ISODate("2011-10-20T00:00:00Z"),
      "grade" : "A",
      "score" : 13
    }
  ],
  "name" : "Mcdwyers Pub",
  "restaurant_id" : "40365893"
}
{
  "_id" : ObjectId("6443942e421d36aff7b8c440"),
  "address" : {
    "building" : "5820",
```

```
"coord" : [  
    -73.9002615,  
    40.885186  
],  
"street" : "Broadway",  
"zipcode" : "10463"  
},  
"borough" : "Bronx",  
"cuisine" : "American",  
"grades" : [  
    {  
        "date" : ISODate("2014-02-26T00:00:00Z"),  
        "grade" : "A",  
        "score" : 5  
    },  
    {  
        "date" : ISODate("2013-10-09T00:00:00Z"),  
        "grade" : "B",  
        "score" : 19  
    },  
    {  
        "date" : ISODate("2013-05-15T00:00:00Z"),  
        "grade" : "A",  
        "score" : 9  
    },  
    {  
        "date" : ISODate("2012-11-20T00:00:00Z"),  
        "grade" : "B",  
        "score" : 18  
    }  
]
```



```
    },
    {
      "date" : ISODate("2011-10-17T00:00:00Z"),
      "grade" : "A",
      "score" : 10
    },
    {
      "date" : ISODate("2011-06-22T00:00:00Z"),
      "grade" : "C",
      "score" : 35
    }
  ],
  "name" : "The Punch Bowl",
  "restaurant_id" : "40366497"
}
{
  "_id" : ObjectId("6443942e421d36aff7b8c44c"),
  "address" : {
    "building" : "21",
    "coord" : [
      -73.9168424,
      40.8401362
    ],
    "street" : "East 170 Street",
    "zipcode" : "10452"
  },
  "borough" : "Bronx",
  "cuisine" : "American",
  "grades" : [
```

```
{
  "date" : ISODate("2014-12-16T00:00:00Z"),
  "grade" : "B",
  "score" : 22
},
{
  "date" : ISODate("2014-08-12T00:00:00Z"),
  "grade" : "A",
  "score" : 7
},
{
  "date" : ISODate("2014-03-03T00:00:00Z"),
  "grade" : "B",
  "score" : 22
},
{
  "date" : ISODate("2013-08-29T00:00:00Z"),
  "grade" : "A",
  "score" : 12
},
{
  "date" : ISODate("2012-08-29T00:00:00Z"),
  "grade" : "A",
  "score" : 10
},
{
  "date" : ISODate("2012-02-13T00:00:00Z"),
  "grade" : "B",
  "score" : 16
}
```

```
}
],
"name" : "Munchtime",
"restaurant_id" : "40366748"
}
{
  "_id" : ObjectId("6443942e421d36aff7b8c44e"),
  "address" : {
    "building" : "4340",
    "coord" : [
      -73.8194559,
      40.8899176
    ],
    "street" : "Boston Road",
    "zipcode" : "10475"
  },
  "borough" : "Bronx",
  "cuisine" : "Pancakes/Waffles",
  "grades" : [
    {
      "date" : ISODate("2014-09-22T00:00:00Z"),
      "grade" : "A",
      "score" : 11
    },
    {
      "date" : ISODate("2014-05-16T00:00:00Z"),
      "grade" : "A",
      "score" : 9
    },
  ],
}
```

```
{
  "date" : ISODate("2013-10-30T00:00:00Z"),
  "grade" : "A",
  "score" : 3
},
{
  "date" : ISODate("2013-06-05T00:00:00Z"),
  "grade" : "B",
  "score" : 24
},
{
  "date" : ISODate("2012-05-14T00:00:00Z"),
  "grade" : "A",
  "score" : 13
},
{
  "date" : ISODate("2012-01-04T00:00:00Z"),
  "grade" : "A",
  "score" : 7
}
],
"name" : "Ihop",
"restaurant_id" : "40366833"
}
{
  "_id" : ObjectId("6443942e421d36aff7b8c452"),
  "address" : {
    "building" : "1191",
    "coord" : [
```

```
-73.8513114,  
40.8316981  
],  
"street" : "Castle Hill Avenue",  
"zipcode" : "10462"  
},  
"borough" : "Bronx",  
"cuisine" : "Café/Coffee/Tea",  
"grades" : [  
{  
  "date" : ISODate("2014-07-03T00:00:00Z"),  
  "grade" : "A",  
  "score" : 12  
},  
{  
  "date" : ISODate("2013-07-08T00:00:00Z"),  
  "grade" : "A",  
  "score" : 9  
},  
{  
  "date" : ISODate("2013-02-11T00:00:00Z"),  
  "grade" : "A",  
  "score" : 11  
},  
{  
  "date" : ISODate("2012-08-14T00:00:00Z"),  
  "grade" : "B",  
  "score" : 14  
},
```

```
{
  "date" : ISODate("2011-08-23T00:00:00Z"),
  "grade" : "A",
  "score" : 12
}
],
"name" : "Lulu'S Coffee Shop",
"restaurant_id" : "40366938"
}
{
  "_id" : ObjectId("6443942e421d36aff7b8c459"),
  "address" : {
    "building" : "2894",
    "coord" : [
      -73.815175,
      40.8137649
    ],
    "street" : "Schurz Ave",
    "zipcode" : "10465"
  },
  "borough" : "Bronx",
  "cuisine" : "American",
  "grades" : [
    {
      "date" : ISODate("2014-10-31T00:00:00Z"),
      "grade" : "B",
      "score" : 18
    },
    {
```

```
        "date" : ISODate("2014-02-20T00:00:00Z"),
        "grade" : "A",
        "score" : 4
    },
    {
        "date" : ISODate("2013-06-07T00:00:00Z"),
        "grade" : "A",
        "score" : 12
    },
    {
        "date" : ISODate("2012-05-17T00:00:00Z"),
        "grade" : "A",
        "score" : 2
    }
],
"name" : "Marina Delray",
"restaurant_id" : "40367161"
}
{
    "_id" : ObjectId("6443942e421d36aff7b8c47e"),
    "address" : {
        "building" : "4280",
        "coord" : [
            -73.86697,
            40.897946999999999
        ],
        "street" : "Katonah Ave",
        "zipcode" : "10470"
    },
}
```

```
"borough" : "Bronx",
"cuisine" : "Not Listed/Not Applicable",
"grades" : [
{
    "date" : ISODate("2014-06-04T00:00:00Z"),
    "grade" : "A",
    "score" : 5
},
{
    "date" : ISODate("2013-06-07T00:00:00Z"),
    "grade" : "A",
    "score" : 2
},
{
    "date" : ISODate("2012-06-27T00:00:00Z"),
    "grade" : "A",
    "score" : 2
},
{
    "date" : ISODate("2011-07-13T00:00:00Z"),
    "grade" : "A",
    "score" : 10
}
],
"name" : "The Lark'S Nest",
"restaurant_id" : "40367946"
}
{
    "_id" : ObjectId("6443942e421d36aff7b8c47f"),
```



```
"address" : {
  "building" : "2300",
  "coord" : [
    -73.8786113,
    40.8502883
  ],
  "street" : "Southern Boulevard",
  "zipcode" : "10460"
},
"borough" : "Bronx",
"cuisine" : "African",
"grades" : [
  {
    "date" : ISODate("2014-05-21T00:00:00Z"),
    "grade" : "A",
    "score" : 8
  },
  {
    "date" : ISODate("2013-06-01T00:00:00Z"),
    "grade" : "A",
    "score" : 6
  },
  {
    "date" : ISODate("2012-06-12T00:00:00Z"),
    "grade" : "A",
    "score" : 0
  },
  {
    "date" : ISODate("2011-06-08T00:00:00Z"),
```

```
        "grade" : "A",
        "score" : 0
    }
],
"name" : "African Terrace",
"restaurant_id" : "40368021"
}
{
    "_id" : ObjectId("6443942e421d36aff7b8c480"),
    "address" : {
        "building" : "2300",
        "coord" : [
            -73.8786113,
            40.8502883
        ],
        "street" : "Southern Boulevard",
        "zipcode" : "10460"
    },
    "borough" : "Bronx",
    "cuisine" : "Café/Coffee/Tea",
    "grades" : [
        {
            "date" : ISODate("2014-05-21T00:00:00Z"),
            "grade" : "A",
            "score" : 8
        },
        {
            "date" : ISODate("2013-05-29T00:00:00Z"),
            "grade" : "A",
```

```
        "score" : 9
    },
    {
        "date" : ISODate("2012-06-18T00:00:00Z"),
        "grade" : "A",
        "score" : 8
    }
],
"name" : "Terrace Cafe",
"restaurant_id" : "40368018"
}
{
    "_id" : ObjectId("6443942e421d36aff7b8c481"),
    "address" : {
        "building" : "2300",
        "coord" : [
            -73.8786113,
            40.8502883
        ],
        "street" : "Southern Boulevard",
        "zipcode" : "10460"
    },
    "borough" : "Bronx",
    "cuisine" : "American",
    "grades" : [
        {
            "date" : ISODate("2014-05-21T00:00:00Z"),
            "grade" : "A",
            "score" : 5
```

```
    },
    {
      "date" : ISODate("2013-05-28T00:00:00Z"),
      "grade" : "A",
      "score" : 3
    },
    {
      "date" : ISODate("2012-06-18T00:00:00Z"),
      "grade" : "A",
      "score" : 4
    },
    {
      "date" : ISODate("2011-06-07T00:00:00Z"),
      "grade" : "A",
      "score" : 9
    }
  ],
  "name" : "African Market (Baboon Cafe)",
  "restaurant_id" : "40368026"
}
{
  "_id" : ObjectId("6443942e421d36aff7b8c482"),
  "address" : {
    "building" : "2300",
    "coord" : [
      -73.8786113,
      40.8502883
    ],
    "street" : "Southern Boulevard",
```

```
"zipcode" : "10460"
},
"borough" : "Bronx",
"cuisine" : "American",
"grades" : [
{
    "date" : ISODate("2014-05-21T00:00:00Z"),
    "grade" : "A",
    "score" : 11
},
{
    "date" : ISODate("2013-05-29T00:00:00Z"),
    "grade" : "A",
    "score" : 10
},
{
    "date" : ISODate("2012-06-15T00:00:00Z"),
    "grade" : "A",
    "score" : 2
},
{
    "date" : ISODate("2011-06-08T00:00:00Z"),
    "grade" : "A",
    "score" : 0
}
],
"name" : "Beaver Pond",
"restaurant_id" : "40368025"
}
```

```
{
  "_id" : ObjectId("6443942e421d36aff7b8c483"),
  "address" : {
    "building" : "2300",
    "coord" : [
      -73.8786113,
      40.8502883
    ],
    "street" : "Southern Boulevard",
    "zipcode" : "10460"
  },
  "borough" : "Bronx",
  "cuisine" : "American",
  "grades" : [
    {
      "date" : ISODate("2014-05-21T00:00:00Z"),
      "grade" : "A",
      "score" : 2
    },
    {
      "date" : ISODate("2013-05-22T00:00:00Z"),
      "grade" : "A",
      "score" : 11
    },
    {
      "date" : ISODate("2012-05-17T00:00:00Z"),
      "grade" : "A",
      "score" : 12
    },
  ],
}
```

```

{
    "date" : ISODate("2011-06-08T00:00:00Z"),
    "grade" : "A",
    "score" : 5
}
],
"name" : "Cool Zone",
"restaurant_id" : "40368022"
}

```

6. Write a MongoDB query to display the first 5 restaurant which is in the borough Bronx.

Ans:-

```
> db.samplerestaurant.find({borough:'Bronx'}).limit(5).pretty();
```

```

{
    "_id" : ObjectId("6443942e421d36aff7b8c3ae"),
    "address" : {
        "building" : "2300",
        "coord" : [
            -73.8786113,
            40.8502883
        ],
        "street" : "Southern Boulevard",
        "zipcode" : "10460"
    },
    "borough" : "Bronx",
    "cuisine" : "American",
    "grades" : [
        {
            "date" : ISODate("2014-05-28T00:00:00Z"),

```

```
        "grade" : "A",
        "score" : 11
    },
    {
        "date" : ISODate("2013-06-19T00:00:00Z"),
        "grade" : "A",
        "score" : 4
    },
    {
        "date" : ISODate("2012-06-15T00:00:00Z"),
        "grade" : "A",
        "score" : 3
    }
],
"name" : "Wild Asia",
"restaurant_id" : "40357217"
}
{
    "_id" : ObjectId("6443942e421d36aff7b8c3b6"),
    "address" : {
        "building" : "1007",
        "coord" : [
            -73.856077,
            40.848447
        ],
        "street" : "Morris Park Ave",
        "zipcode" : "10462"
    },
    "borough" : "Bronx",
```



```
"cuisine" : "Bakery",
"grades" : [
{
    "date" : ISODate("2014-03-03T00:00:00Z"),
    "grade" : "A",
    "score" : 2
},
{
    "date" : ISODate("2013-09-11T00:00:00Z"),
    "grade" : "A",
    "score" : 6
},
{
    "date" : ISODate("2013-01-24T00:00:00Z"),
    "grade" : "A",
    "score" : 10
},
{
    "date" : ISODate("2011-11-23T00:00:00Z"),
    "grade" : "A",
    "score" : 9
},
{
    "date" : ISODate("2011-03-10T00:00:00Z"),
    "grade" : "B",
    "score" : 14
}
],
"name" : "Morris Park Bake Shop",
```

```
"restaurant_id" : "30075445"
}
{
  "_id" : ObjectId("6443942e421d36aff7b8c3c8"),
  "address" : {
    "building" : "1006",
    "coord" : [
      -73.84856870000002,
      40.8903781
    ],
    "street" : "East 233 Street",
    "zipcode" : "10466"
  },
  "borough" : "Bronx",
  "cuisine" : "Ice Cream, Gelato, Yogurt, Ices",
  "grades" : [
    {
      "date" : ISODate("2014-04-24T00:00:00Z"),
      "grade" : "A",
      "score" : 10
    },
    {
      "date" : ISODate("2013-09-05T00:00:00Z"),
      "grade" : "A",
      "score" : 10
    },
    {
      "date" : ISODate("2013-02-21T00:00:00Z"),
      "grade" : "A",
```

```
        "score" : 9
    },
    {
        "date" : ISODate("2012-07-03T00:00:00Z"),
        "grade" : "A",
        "score" : 11
    },
    {
        "date" : ISODate("2011-07-11T00:00:00Z"),
        "grade" : "A",
        "score" : 5
    }
],
"name" : "Carvel Ice Cream",
"restaurant_id" : "40363093"
}
{
    "_id" : ObjectId("6443942e421d36aff7b8c3ca"),
    "address" : {
        "building" : "1236",
        "coord" : [
            -73.8893654,
            40.813761799999999
        ],
        "street" : "238 Spofford Ave",
        "zipcode" : "10474"
    },
    "borough" : "Bronx",
    "cuisine" : "Chinese",
```

```
"grades" : [  
  {  
    "date" : ISODate("2013-12-30T00:00:00Z"),  
    "grade" : "A",  
    "score" : 8  
  },  
  {  
    "date" : ISODate("2013-01-08T00:00:00Z"),  
    "grade" : "A",  
    "score" : 10  
  },  
  {  
    "date" : ISODate("2012-06-12T00:00:00Z"),  
    "grade" : "B",  
    "score" : 15  
  }  
],  
"name" : "Happy Garden",  
"restaurant_id" : "40363289"  
}  
  
{  
  "_id" : ObjectId("6443942e421d36aff7b8c3dd"),  
  "address" : {  
    "building" : "277",  
    "coord" : [  
      -73.8941893,  
      40.8634684  
    ],  
    "street" : "East Kingsbridge Road",
```

```
"zipcode" : "10458"
},
"borough" : "Bronx",
"cuisine" : "Chinese",
"grades" : [
{
  "date" : ISODate("2014-03-03T00:00:00Z"),
  "grade" : "A",
  "score" : 10
},
{
  "date" : ISODate("2013-09-26T00:00:00Z"),
  "grade" : "A",
  "score" : 10
},
{
  "date" : ISODate("2013-03-19T00:00:00Z"),
  "grade" : "A",
  "score" : 10
},
{
  "date" : ISODate("2012-08-29T00:00:00Z"),
  "grade" : "A",
  "score" : 11
},
{
  "date" : ISODate("2011-08-17T00:00:00Z"),
  "grade" : "A",
  "score" : 13
}
```

```
}  
],  
  "name" : "Happy Garden",  
  "restaurant_id" : "40364296"  
}
```

7. Write a MongoDB query to display the next 5 restaurants after skipping first 5 which are in the borough Bronx.

Ans:-

```
> db.samplerestaurant.find({borough:'Bronx'}).limit(5).skip(5).pretty();
```

```
{  
  "_id" : ObjectId("6443942e421d36aff7b8c3df"),  
  "address" : {  
    "building" : "658",  
    "coord" : [  
      -73.813639999999999,  
      40.829411000000001  
    ],  
    "street" : "Clarence Ave",  
    "zipcode" : "10465"  
  },  
  "borough" : "Bronx",  
  "cuisine" : "American",  
  "grades" : [  
    {  
      "date" : ISODate("2014-06-21T00:00:00Z"),  
      "grade" : "A",  
      "score" : 5  
    },  
  ],  
}
```

```
{
  "date" : ISODate("2012-07-11T00:00:00Z"),
  "grade" : "A",
  "score" : 10
}
],
"name" : "Manhem Club",
"restaurant_id" : "40364363"
}
{
  "_id" : ObjectId("6443942e421d36aff7b8c3f9"),
  "address" : {
    "building" : "2222",
    "coord" : [
      -73.84971759999999,
      40.8304811
    ],
    "street" : "Haviland Avenue",
    "zipcode" : "10462"
  },
  "borough" : "Bronx",
  "cuisine" : "American",
  "grades" : [
    {
      "date" : ISODate("2014-12-18T00:00:00Z"),
      "grade" : "A",
      "score" : 7
    },
    {
```

```
        "date" : ISODate("2014-05-01T00:00:00Z"),
        "grade" : "B",
        "score" : 17
    },
    {
        "date" : ISODate("2013-03-14T00:00:00Z"),
        "grade" : "A",
        "score" : 12
    },
    {
        "date" : ISODate("2012-09-20T00:00:00Z"),
        "grade" : "A",
        "score" : 9
    },
    {
        "date" : ISODate("2012-02-08T00:00:00Z"),
        "grade" : "B",
        "score" : 19
    }
],
"name" : "The New Starling Athletic Club Of The Bronx",
"restaurant_id" : "40364956"
}
{
    "_id" : ObjectId("6443942e421d36aff7b8c415"),
    "address" : {
        "building" : "72",
        "coord" : [
            -73.92506,
```



40.8275556

```
],
"street" : "East 161 Street",
"zipcode" : "10451"
},
"borough" : "Bronx",
"cuisine" : "American",
"grades" : [
{
  "date" : ISODate("2014-04-15T00:00:00Z"),
  "grade" : "A",
  "score" : 9
},
{
  "date" : ISODate("2013-11-14T00:00:00Z"),
  "grade" : "A",
  "score" : 4
},
{
  "date" : ISODate("2013-07-29T00:00:00Z"),
  "grade" : "A",
  "score" : 10
},
{
  "date" : ISODate("2012-12-31T00:00:00Z"),
  "grade" : "B",
  "score" : 15
},
{
```

```
        "date" : ISODate("2012-05-30T00:00:00Z"),
        "grade" : "A",
        "score" : 13
    },
    {
        "date" : ISODate("2012-01-09T00:00:00Z"),
        "grade" : "A",
        "score" : 10
    },
    {
        "date" : ISODate("2011-08-15T00:00:00Z"),
        "grade" : "C",
        "score" : 37
    }
],
"name" : "Yankee Tavern",
"restaurant_id" : "40365499"
}
{
    "_id" : ObjectId("6443942e421d36aff7b8c42c"),
    "address" : {
        "building" : "331",
        "coord" : [
            -73.87786539999999,
            40.8724377
        ],
        "street" : "East 204 Street",
        "zipcode" : "10467"
    },
    }
```

```
"borough" : "Bronx",
"cuisine" : "Irish",
"grades" : [
{
    "date" : ISODate("2014-08-26T00:00:00Z"),
    "grade" : "A",
    "score" : 10
},
{
    "date" : ISODate("2014-03-26T00:00:00Z"),
    "grade" : "B",
    "score" : 23
},
{
    "date" : ISODate("2013-09-11T00:00:00Z"),
    "grade" : "A",
    "score" : 13
},
{
    "date" : ISODate("2012-12-18T00:00:00Z"),
    "grade" : "B",
    "score" : 27
},
{
    "date" : ISODate("2011-10-20T00:00:00Z"),
    "grade" : "A",
    "score" : 13
}
],
```

```
"name" : "Mcdwyers Pub",
"restaurant_id" : "40365893"
}
{
  "_id" : ObjectId("6443942e421d36aff7b8c440"),
  "address" : {
    "building" : "5820",
    "coord" : [
      -73.9002615,
      40.885186
    ],
    "street" : "Broadway",
    "zipcode" : "10463"
  },
  "borough" : "Bronx",
  "cuisine" : "American",
  "grades" : [
    {
      "date" : ISODate("2014-02-26T00:00:00Z"),
      "grade" : "A",
      "score" : 5
    },
    {
      "date" : ISODate("2013-10-09T00:00:00Z"),
      "grade" : "B",
      "score" : 19
    },
    {
      "date" : ISODate("2013-05-15T00:00:00Z"),
```

```

        "grade" : "A",
        "score" : 9
    },
    {
        "date" : ISODate("2012-11-20T00:00:00Z"),
        "grade" : "B",
        "score" : 18
    },
    {
        "date" : ISODate("2011-10-17T00:00:00Z"),
        "grade" : "A",
        "score" : 10
    },
    {
        "date" : ISODate("2011-06-22T00:00:00Z"),
        "grade" : "C",
        "score" : 35
    }
],
"name" : "The Punch Bowl",
"restaurant_id" : "40366497"
}

```

8. Write a MongoDB query to find the restaurants who achieved a score more than 90.

Ans:-

```

> db.samplerestaurant.find({'grades.score':{$gt:90}}).pretty();
{
  "_id" : ObjectId("6443942e421d36aff7b8c508"),
  "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("6443942e421d36aff7b8c5a7"),
    "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("6443942e421d36aff7b8c70b"),
    "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("6443942f421d36aff7b8f733"),
  "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"
}

```

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

Ans:-

```
> db.samplerestaurant.find({"grades.score":{$gt:80,$lt:100}}).pretty();
```

```

{
  "_id" : ObjectId("6443942e421d36aff7b8c508"),
  "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("6443942e421d36aff7b8c5a7"),
  "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("6443942e421d36aff7b8c70b"),  
  "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("6443942e421d36aff7b8cf77"),
  "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("6443942e421d36aff7b8d4b4"),
    "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("6443942e421d36aff7b8d4e6"),
  "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("2013-01-29T00:00:00Z"),
        "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("6443942f421d36aff7b8e67b"),
    "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("6443942f421d36aff7b8ea6c"),
  "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("6443942f421d36aff7b8f733"),
    "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("6443942f421d36aff7b8f7ce"),
    "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("2012-04-30T00:00:00Z"),
      "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("6443942f421d36aff7b90c6c"),
  "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"),  
        "grade" : "A",  
        "score" : 10  
    }  
]
```

```
}  
],  
"name" : "D & Y Restaurant",  
"restaurant_id" : "50000040"  
}  
{  
  "_id" : ObjectId("6443942f421d36aff7b91f8f"),  
  "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"  
}
```

10. Write a MongoDB query to find the restaurants which locate in latitude value less than -95.754168.

Ans:-

```
> db.samplerestaurant.find({"address.coord.0":{"$lt":-95.754168}}).pretty();
```

```
{  
  "_id" : ObjectId("6443942e421d36aff7b8c9ef"),  
  "address" : {  
    "building" : "3707",  
    "coord" : [  
      -101.8945214,  
      33.5197474  
    ],  
    "street" : "82 Street",  
    "zipcode" : "11372"  
  },  
  "borough" : "Queens",  
  "cuisine" : "American",  
  "grades" : [  
    {  
      "date" : ISODate("2014-06-04T00:00:00Z"),  
      "grade" : "A",  
      "score" : 12  
    },  
  ],  
}
```

```
{
  "date" : ISODate("2013-11-07T00:00:00Z"),
  "grade" : "B",
  "score" : 19
},
{
  "date" : ISODate("2013-05-17T00:00:00Z"),
  "grade" : "A",
  "score" : 11
},
{
  "date" : ISODate("2012-08-29T00:00:00Z"),
  "grade" : "A",
  "score" : 11
},
{
  "date" : ISODate("2012-04-03T00:00:00Z"),
  "grade" : "A",
  "score" : 12
},
{
  "date" : ISODate("2011-11-16T00:00:00Z"),
  "grade" : "A",
  "score" : 7
}
],
"name" : "Burger King",
"restaurant_id" : "40534067"
}
```

```
{
  "_id" : ObjectId("6443942e421d36aff7b8cd5d"),
  "address" : {
    "building" : "15259",
    "coord" : [
      -119.6368672,
      36.2504996
    ],
    "street" : "10 Avenue",
    "zipcode" : "11357"
  },
  "borough" : "Queens",
  "cuisine" : "Italian",
  "grades" : [
    {
      "date" : ISODate("2014-09-04T00:00:00Z"),
      "grade" : "A",
      "score" : 11
    },
    {
      "date" : ISODate("2014-03-26T00:00:00Z"),
      "grade" : "A",
      "score" : 8
    },
    {
      "date" : ISODate("2013-03-04T00:00:00Z"),
      "grade" : "A",
      "score" : 10
    }
  ],
}
```



```
{
  "date" : ISODate("2012-09-27T00:00:00Z"),
  "grade" : "A",
  "score" : 10
},
{
  "date" : ISODate("2012-04-20T00:00:00Z"),
  "grade" : "A",
  "score" : 7
},
{
  "date" : ISODate("2011-11-23T00:00:00Z"),
  "grade" : "C",
  "score" : 34
}
],
"name" : "Cascarino'S",
"restaurant_id" : "40668681"
}
{
  "_id" : ObjectId("6443942e421d36aff7b8d203"),
  "address" : {
    "building" : "60",
    "coord" : [
      -111.9975205,
      42.0970258
    ],
    "street" : "West Side Highway",
    "zipcode" : "10006"
```

```
    },
    "borough" : "Manhattan",
    "cuisine" : "Japanese",
    "grades" : [
      {
        "date" : ISODate("2014-03-20T00:00:00Z"),
        "grade" : "A",
        "score" : 9
      },
      {
        "date" : ISODate("2013-06-28T00:00:00Z"),
        "grade" : "A",
        "score" : 11
      },
      {
        "date" : ISODate("2012-07-05T00:00:00Z"),
        "grade" : "A",
        "score" : 13
      },
      {
        "date" : ISODate("2011-07-27T00:00:00Z"),
        "grade" : "A",
        "score" : 2
      }
    ],
    "name" : "Sports Center At Chelsea Piers (Sushi Bar)",
    "restaurant_id" : "40882356"
  }
{
```

```
"_id" : ObjectId("6443942e421d36aff7b8d3ed"),
"address" : {
  "building" : "524",
  "coord" : [
    -122.3870832,
    37.7606086
  ],
  "street" : "Beach 20 Street",
  "zipcode" : "11691"
},
"borough" : "Queens",
"cuisine" : "Pizza",
"grades" : [
  {
    "date" : ISODate("2014-09-24T00:00:00Z"),
    "grade" : "Z",
    "score" : 15
  },
  {
    "date" : ISODate("2014-05-08T00:00:00Z"),
    "grade" : "A",
    "score" : 12
  },
  {
    "date" : ISODate("2013-11-04T00:00:00Z"),
    "grade" : "A",
    "score" : 12
  },
  {
```

```

        "date" : ISODate("2012-10-09T00:00:00Z"),
        "grade" : "A",
        "score" : 12
    },
    {
        "date" : ISODate("2011-11-01T00:00:00Z"),
        "grade" : "A",
        "score" : 12
    }
],
"name" : "Domino'S Pizza",
"restaurant_id" : "40949724"
}
{
    "_id" : ObjectId("6443942e421d36aff7b8d472"),
    "address" : {
        "building" : "6822",
        "coord" : [
            -115.2372343,
            36.1836718
        ],
        "street" : "Fresh Meadows Lane",
        "zipcode" : "11365"
    },
    "borough" : "Queens",
    "cuisine" : "Pizza/Italian",
    "grades" : [
        {
            "date" : ISODate("2014-03-08T00:00:00Z"),

```

```
        "grade" : "A",
        "score" : 10
    },
    {
        "date" : ISODate("2013-02-13T00:00:00Z"),
        "grade" : "A",
        "score" : 5
    },
    {
        "date" : ISODate("2012-07-16T00:00:00Z"),
        "grade" : "A",
        "score" : 9
    },
    {
        "date" : ISODate("2011-07-12T00:00:00Z"),
        "grade" : "A",
        "score" : 5
    }
],
"name" : "Angelo & Al'S Pizzeria",
"restaurant_id" : "40969851"
}
{
    "_id" : ObjectId("6443942f421d36aff7b8dbb3"),
    "address" : {
        "building" : "845",
        "coord" : [
            -120.4599938,
            36.8606752
        ]
    }
}
```

```
],
"street" : "U N Plaza",
"zipcode" : "10017"
},
"borough" : "Manhattan",
"cuisine" : "Japanese",
"grades" : [
{
    "date" : ISODate("2014-10-02T00:00:00Z"),
    "grade" : "A",
    "score" : 11
},
{
    "date" : ISODate("2014-03-21T00:00:00Z"),
    "grade" : "A",
    "score" : 11
},
{
    "date" : ISODate("2013-04-16T00:00:00Z"),
    "grade" : "B",
    "score" : 16
},
{
    "date" : ISODate("2012-05-08T00:00:00Z"),
    "grade" : "A",
    "score" : 13
}
],
"name" : "Megu Midtown",
```

```
"restaurant_id" : "41167462"
}
{
  "_id" : ObjectId("6443942f421d36aff7b8dd49"),
  "address" : {
    "building" : "4902",
    "coord" : [
      -95.9220496,
      36.0912513
    ],
    "street" : "East 49 Street",
    "zipcode" : "11203"
  },
  "borough" : "Brooklyn",
  "cuisine" : "Caribbean",
  "grades" : [
    {
      "date" : ISODate("2014-06-17T00:00:00Z"),
      "grade" : "A",
      "score" : 12
    },
    {
      "date" : ISODate("2013-06-18T00:00:00Z"),
      "grade" : "A",
      "score" : 9
    },
    {
      "date" : ISODate("2013-01-31T00:00:00Z"),
      "grade" : "A",
```

```
        "score" : 9
    },
    {
        "date" : ISODate("2012-08-09T00:00:00Z"),
        "grade" : "A",
        "score" : 3
    },
    {
        "date" : ISODate("2012-07-24T00:00:00Z"),
        "grade" : "P",
        "score" : 2
    },
    {
        "date" : ISODate("2012-03-08T00:00:00Z"),
        "grade" : "B",
        "score" : 15
    },
    {
        "date" : ISODate("2011-10-03T00:00:00Z"),
        "grade" : "A",
        "score" : 7
    }
],
"name" : "A&P Roti & Pastry Shop",
"restaurant_id" : "41204137"
}
{
    "_id" : ObjectId("6443942f421d36aff7b8e0f0"),
    "address" : {
```



```
"building" : "20915",
"coord" : [
    -99.0640336,
    40.7284015
],
"street" : "East 56 Street",
"zipcode" : "10022"
},
"borough" : "Manhattan",
"cuisine" : "Italian",
"grades" : [
{
    "date" : ISODate("2014-06-12T00:00:00Z"),
    "grade" : "A",
    "score" : 13
},
{
    "date" : ISODate("2014-01-09T00:00:00Z"),
    "grade" : "A",
    "score" : 13
},
{
    "date" : ISODate("2013-05-31T00:00:00Z"),
    "grade" : "A",
    "score" : 10
},
{
    "date" : ISODate("2012-09-27T00:00:00Z"),
    "grade" : "A",
```

```
        "score" : 2
    },
    {
        "date" : ISODate("2012-03-28T00:00:00Z"),
        "grade" : "A",
        "score" : 12
    },
    {
        "date" : ISODate("2011-09-23T00:00:00Z"),
        "grade" : "C",
        "score" : 13
    }
],
"name" : "Fiorini",
"restaurant_id" : "41270541"
}
{
    "_id" : ObjectId("6443942f421d36aff7b8e158"),
    "address" : {
        "building" : "5602",
        "coord" : [
            -119.565005,
            36.3924905
        ],
        "street" : "6 Avenue",
        "zipcode" : "11220"
    },
    "borough" : "Brooklyn",
    "cuisine" : "Middle Eastern",
```

```
"grades" : [  
  {  
    "date" : ISODate("2014-06-11T00:00:00Z"),  
    "grade" : "A",  
    "score" : 9  
  },  
  {  
    "date" : ISODate("2013-09-21T00:00:00Z"),  
    "grade" : "A",  
    "score" : 10  
  },  
  {  
    "date" : ISODate("2012-06-16T00:00:00Z"),  
    "grade" : "A",  
    "score" : 9  
  }  
],  
"name" : "Widdi Hall",  
"restaurant_id" : "41276825"  
}  
  
{  
  "_id" : ObjectId("6443942f421d36aff7b8e2fd"),  
  "address" : {  
    "building" : "13620",  
    "coord" : [  
      -104.2081266,  
      39.6086401  
    ],  
    "street" : "38 Avenue",
```

```
"zipcode" : "11354"
},
"borough" : "Queens",
"cuisine" : "Café/Coffee/Tea",
"grades" : [
{
    "date" : ISODate("2014-01-07T00:00:00Z"),
    "grade" : "A",
    "score" : 4
},
{
    "date" : ISODate("2013-01-02T00:00:00Z"),
    "grade" : "A",
    "score" : 7
}
],
"name" : "Rose House",
"restaurant_id" : "41303891"
}
{
    "_id" : ObjectId("6443942f421d36aff7b8e440"),
    "address" : {
        "building" : "13357",
        "coord" : [
            -108.306687,
            38.0890517
        ],
        "street" : "41 Road",
        "zipcode" : "11355"
```

```
},
"borough" : "Queens",
"cuisine" : "Bakery",
"grades" : [
{
  "date" : ISODate("2014-04-14T00:00:00Z"),
  "grade" : "A",
  "score" : 11
},
{
  "date" : ISODate("2013-04-10T00:00:00Z"),
  "grade" : "A",
  "score" : 5
},
{
  "date" : ISODate("2012-04-05T00:00:00Z"),
  "grade" : "A",
  "score" : 11
},
{
  "date" : ISODate("2011-11-09T00:00:00Z"),
  "grade" : "A",
  "score" : 8
},
{
  "date" : ISODate("2011-06-22T00:00:00Z"),
  "grade" : "A",
  "score" : 9
}
```

```
],
"name" : "New Sun Mary Bakery",
"restaurant_id" : "41323353"
}
{
  "_id" : ObjectId("6443942f421d36aff7b8eeff"),
  "address" : {
    "building" : "24-28",
    "coord" : [
      -105.7857603,
      39.9472999
    ],
    "street" : "Hughes Avenue",
    "zipcode" : "10458"
  },
  "borough" : "Bronx",
  "cuisine" : "Mexican",
  "grades" : [
    {
      "date" : ISODate("2014-12-04T00:00:00Z"),
      "grade" : "A",
      "score" : 13
    },
    {
      "date" : ISODate("2014-06-28T00:00:00Z"),
      "grade" : "A",
      "score" : 12
    },
    {
```

```
        "date" : ISODate("2013-05-02T00:00:00Z"),
        "grade" : "A",
        "score" : 12
    }
],
"name" : "El Oasis Bar Restaurant",
"restaurant_id" : "41469687"
}
{
    "_id" : ObjectId("6443942f421d36aff7b8f28f"),
    "address" : {
        "building" : "13617",
        "coord" : [
            -104.8340205,
            39.7691992
        ],
        "street" : "38 Avenue",
        "zipcode" : "11354"
    },
    "borough" : "Queens",
    "cuisine" : "Chinese/Japanese",
    "grades" : [
        {
            "date" : ISODate("2014-12-04T00:00:00Z"),
            "grade" : "A",
            "score" : 9
        },
        {
            "date" : ISODate("2014-06-25T00:00:00Z"),
```

```
        "grade" : "A",
        "score" : 8
    },
    {
        "date" : ISODate("2013-12-11T00:00:00Z"),
        "grade" : "A",
        "score" : 13
    },
    {
        "date" : ISODate("2013-06-19T00:00:00Z"),
        "grade" : "A",
        "score" : 10
    },
    {
        "date" : ISODate("2012-06-27T00:00:00Z"),
        "grade" : "A",
        "score" : 7
    },
    {
        "date" : ISODate("2011-12-07T00:00:00Z"),
        "grade" : "B",
        "score" : 17
    }
],
"name" : "Minni Shabu Shabu",
"restaurant_id" : "41513285"
}
{
    "_id" : ObjectId("6443942f421d36aff7b8f438"),
```



```
"address" : {
  "building" : "5371",
  "coord" : [
    -119.6684796,
    36.3280082
  ],
  "street" : "Kings Plaza Mall",
  "zipcode" : "11234"
},
"borough" : "Brooklyn",
"cuisine" : "Ice Cream, Gelato, Yogurt, Ices",
"grades" : [
  {
    "date" : ISODate("2014-12-08T00:00:00Z"),
    "grade" : "B",
    "score" : 14
  },
  {
    "date" : ISODate("2014-06-26T00:00:00Z"),
    "grade" : "A",
    "score" : 10
  },
  {
    "date" : ISODate("2013-05-23T00:00:00Z"),
    "grade" : "A",
    "score" : 10
  },
  {
    "date" : ISODate("2012-06-05T00:00:00Z"),
```

```
        "grade" : "A",
        "score" : 7
    }
],
"name" : "Everything Yogurt/Gretel'S Pretzels",
"restaurant_id" : "41539001"
}
{
    "_id" : ObjectId("6443942f421d36aff7b8f69e"),
    "address" : {
        "building" : "15059",
        "coord" : [
            -114.6787351,
            33.4631523
        ],
        "street" : "34 Avenue",
        "zipcode" : "11354"
    },
    "borough" : "Queens",
    "cuisine" : "Delicatessen",
    "grades" : [
        {
            "date" : ISODate("2014-09-04T00:00:00Z"),
            "grade" : "A",
            "score" : 7
        },
        {
            "date" : ISODate("2013-08-29T00:00:00Z"),
            "grade" : "A",
```

```

        "score" : 3
    },
    {
        "date" : ISODate("2013-04-08T00:00:00Z"),
        "grade" : "A",
        "score" : 12
    }
],
"name" : "George'S Sidestreet Deli & Grill",
"restaurant_id" : "41563549"
}
{
    "_id" : ObjectId("6443942f421d36aff7b8f90e"),
    "address" : {
        "building" : "30012",
        "coord" : [
            -100.707166,
            47.137061499999999
        ],
        "street" : "East 52 Street",
        "zipcode" : "10022"
    },
    "borough" : "Manhattan",
    "cuisine" : "Mediterranean",
    "grades" : [
        {
            "date" : ISODate("2014-06-26T00:00:00Z"),
            "grade" : "A",
            "score" : 10
        }
    ]
}

```

```
    },
    {
      "date" : ISODate("2013-12-10T00:00:00Z"),
      "grade" : "A",
      "score" : 5
    },
    {
      "date" : ISODate("2013-05-01T00:00:00Z"),
      "grade" : "A",
      "score" : 13
    },
    {
      "date" : ISODate("2012-02-23T00:00:00Z"),
      "grade" : "A",
      "score" : 10
    },
    {
      "date" : ISODate("2011-10-18T00:00:00Z"),
      "grade" : "A",
      "score" : 12
    }
  ],
  "name" : "Pierre Loti Midtown",
  "restaurant_id" : "41588029"
}
{
  "_id" : ObjectId("6443942f421d36aff7b8ff12"),
  "address" : {
    "building" : "7608",
```

```
"coord" : [  
    -121.4158208,  
    38.5319584  
],  
"street" : "21St Ave",  
"zipcode" : "11370"  
},  
"borough" : "Bronx",  
"cuisine" : "Italian",  
"grades" : [  
    {  
        "date" : ISODate("2014-10-01T00:00:00Z"),  
        "grade" : "C",  
        "score" : 32  
    },  
    {  
        "date" : ISODate("2014-03-13T00:00:00Z"),  
        "grade" : "B",  
        "score" : 18  
    },  
    {  
        "date" : ISODate("2013-05-21T00:00:00Z"),  
        "grade" : "A",  
        "score" : 9  
    },  
    {  
        "date" : ISODate("2012-11-27T00:00:00Z"),  
        "grade" : "A",  
        "score" : 12  
    }  
]
```

```
    },
    {
      "date" : ISODate("2012-02-27T00:00:00Z"),
      "grade" : "A",
      "score" : 2
    }
  ],
  "name" : "Antonio'S",
  "restaurant_id" : "41636621"
}
{
  "_id" : ObjectId("6443942f421d36aff7b90390"),
  "address" : {
    "building" : "1418",
    "coord" : [
      -97.40487,
      27.7767669
    ],
    "street" : "Elizabeth Street",
    "zipcode" : "10013"
  },
  "borough" : "Manhattan",
  "cuisine" : "Chinese",
  "grades" : [
    {
      "date" : ISODate("2014-03-17T00:00:00Z"),
      "grade" : "A",
      "score" : 8
    },
  ],
```

```
{
  "date" : ISODate("2013-09-20T00:00:00Z"),
  "grade" : "A",
  "score" : 10
},
{
  "date" : ISODate("2013-04-08T00:00:00Z"),
  "grade" : "A",
  "score" : 10
},
{
  "date" : ISODate("2012-09-25T00:00:00Z"),
  "grade" : "A",
  "score" : 5
}
],
"name" : "Mini Express",
"restaurant_id" : "41672159"
}
{
  "_id" : ObjectId("6443942f421d36aff7b903ab"),
  "address" : {
    "building" : "0",
    "coord" : [
      -157.8887924,
      21.3158403
    ],
    "street" : "Pier 86",
    "zipcode" : "10036"
```

```
},
"borough" : "Manhattan",
"cuisine" : "Sandwiches/Salads/Mixed Buffet",
"grades" : [
{
    "date" : ISODate("2014-12-30T00:00:00Z"),
    "grade" : "Z",
    "score" : 24
},
{
    "date" : ISODate("2014-06-27T00:00:00Z"),
    "grade" : "A",
    "score" : 3
},
{
    "date" : ISODate("2013-06-05T00:00:00Z"),
    "grade" : "A",
    "score" : 2
},
{
    "date" : ISODate("2012-07-23T00:00:00Z"),
    "grade" : "A",
    "score" : 11
}
],
"name" : "Au Bon Pain",
"restaurant_id" : "41673043"
}
{
```



```
"_id" : ObjectId("6443942f421d36aff7b90464"),
"address" : {
  "building" : "13933",
  "coord" : [
    -96.702326,
    43.8332898
  ],
  "street" : "245 Street",
  "zipcode" : "11422"
},
"borough" : "Queens",
"cuisine" : "American",
"grades" : [
  {
    "date" : ISODate("2014-11-19T00:00:00Z"),
    "grade" : "A",
    "score" : 4
  },
  {
    "date" : ISODate("2014-05-30T00:00:00Z"),
    "grade" : "A",
    "score" : 5
  },
  {
    "date" : ISODate("2013-03-27T00:00:00Z"),
    "grade" : "A",
    "score" : 8
  },
  {
```

```

        "date" : ISODate("2012-10-17T00:00:00Z"),
        "grade" : "A",
        "score" : 4
    }
],
    "name" : "Checkers",
    "restaurant_id" : "41679636"
}

```

11. Write a MongoDB query to find the restaurants that do not prepare any cuisine of 'American' and their grade score more than 70 and latitude less than -65.754168.

Ans:-

```

>
db.samplerestaurant.find({cuisin:{$nin:["America"]},"grades.score":{$gt:70},"address.coord.0":{$lt:-65.754168}}).pretty();

```

12. Write a MongoDB query to find the restaurants which do not prepare any cuisine of 'American' and achieved a score more than 70 and located in the longitude less than -65.754168.

Ans:-

```

>
db.samplerestaurant.find({cuisin:{$nin:["America"]},"grades.score":{$gt:70},"address.coord.0":{$lt:-65.754168}}).limit(2).pretty();
{
  "_id" : ObjectId("6443942e421d36aff7b8c508"),
  "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("6443942e421d36aff7b8c5a7"),
    "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"
}

```

13. Write a MongoDB query to find the restaurants which do not prepare any cuisine of 'American ' and achieved a grade point 'A' not belongs to the borough Brooklyn. The document must be displayed according to the cuisine in descending order.

Ans:

```

>
db.samplerestaurant.find({cuisin:{$ne:'American'},'grades.grade':'A',"borough":{$nin:['Brooklyn']}}).sort({cuisin:-1}).limit(2).pretty();

```

```

{
  "_id" : ObjectId("6443942e421d36aff7b8c3a8"),
  "address" : {
    "building" : "351",
    "coord" : [
      -73.98513559999999,
      40.7676919
    ],
    "street" : "West 57 Street",
    "zipcode" : "10019"
  },
  "borough" : "Manhattan",
  "cuisine" : "Irish",
  "grades" : [
    {

```

```
        "date" : ISODate("2014-09-06T00:00:00Z"),
        "grade" : "A",
        "score" : 2
    },
    {
        "date" : ISODate("2013-07-22T00:00:00Z"),
        "grade" : "A",
        "score" : 11
    },
    {
        "date" : ISODate("2012-07-31T00:00:00Z"),
        "grade" : "A",
        "score" : 12
    },
    {
        "date" : ISODate("2011-12-29T00:00:00Z"),
        "grade" : "A",
        "score" : 12
    }
],
"name" : "Dj Reynolds Pub And Restaurant",
"restaurant_id" : "30191841"
}
{
    "_id" : ObjectId("6443942e421d36aff7b8c3ae"),
    "address" : {
        "building" : "2300",
        "coord" : [
            -73.8786113,
```

40.8502883

],

"street" : "Southern Boulevard",

"zipcode" : "10460"

},

"borough" : "Bronx",

"cuisine" : "American",

"grades" : [

{

"date" : ISODate("2014-05-28T00:00:00Z"),

"grade" : "A",

"score" : 11

},

{

"date" : ISODate("2013-06-19T00:00:00Z"),

"grade" : "A",

"score" : 4

},

{

"date" : ISODate("2012-06-15T00:00:00Z"),

"grade" : "A",

"score" : 3

}

],

"name" : "Wild Asia",

"restaurant\_id" : "40357217"

}



14. Write a MongoDB query to find the restaurant Id, name, borough and cuisine for those restaurants which contain 'Wil' as first three letters for its name.

Ans:-

```
>
db.samplerestaurant.find({name:{$in:[/^Wil.*$/]}},{restaurant_id:1,name:1,borough:1,cuisine:1}).limit(2).pretty()
{
  "_id" : ObjectId("6443942e421d36aff7b8c3aa"),
  "borough" : "Brooklyn",
  "cuisine" : "Delicatessen",
  "name" : "Wilken'S Fine Food",
  "restaurant_id" : "40356483"
}
{
  "_id" : ObjectId("6443942e421d36aff7b8c3ae"),
  "borough" : "Bronx",
  "cuisine" : "American",
  "name" : "Wild Asia",
  "restaurant_id" : "40357217"
}
```

15. Write a MongoDB query to find the restaurant Id, name, borough and cuisine for those restaurants which contain 'ces' as last three letters for its name.

Ans:-

```
>
db.samplerestaurant.find({name:{$in:[/^.*ces$/]}},{restaurant_id:1,name:1,borough:1,cuisine:1}).limit(2).pretty();
{
  "_id" : ObjectId("6443942e421d36aff7b8c837"),
  "borough" : "Manhattan",
  "cuisine" : "American",
  "name" : "Pieces",
}
```

```

    "restaurant_id" : "40399910"
  }
  {
    "_id" : ObjectId("6443942e421d36aff7b8c8f8"),
    "borough" : "Queens",
    "cuisine" : "American",
    "name" : "S.M.R Restaurant Services",
    "restaurant_id" : "40403857"
  }

```

16. Write a MongoDB query to find the restaurant Id, name, borough and cuisine for those restaurants which contain 'Reg' as three letters somewhere in its name.

Ans:-

```

>
db.samplerestaurant.find({name:{$in:[/^.*Reg.*$/]}},{restaurant_id:1,name:1,borough:1,cuisine:1}).limit(2).pretty();

```

```

{
  "_id" : ObjectId("6443942e421d36aff7b8c3ab"),
  "borough" : "Brooklyn",
  "cuisine" : "American",
  "name" : "Regina Caterers",
  "restaurant_id" : "40356649"
}
{
  "_id" : ObjectId("6443942e421d36aff7b8c4a8"),
  "borough" : "Manhattan",
  "cuisine" : "Café/Coffee/Tea",
  "name" : "Caffe Reggio",
  "restaurant_id" : "40369418"
}

```

```
}
```

17. Write a MongoDB query to find the restaurants which belong to the borough Bronx and prepared either American or Chinese dish.

Ans:-

```
>
```

```
db.samplerestaurant.find({borough:'Bronx',$or:[{cuisine:'American'},{cuisine:'Chinese'}]}).limit(2).pretty();
```

```
{
```

```
  "_id" : ObjectId("6443942e421d36aff7b8c3ae"),
```

```
  "address" : {
```

```
    "building" : "2300",
```

```
    "coord" : [
```

```
      -73.8786113,
```

```
      40.8502883
```

```
    ],
```

```
    "street" : "Southern Boulevard",
```

```
    "zipcode" : "10460"
```

```
  },
```

```
  "borough" : "Bronx",
```

```
  "cuisine" : "American",
```

```
  "grades" : [
```

```
    {
```

```
      "date" : ISODate("2014-05-28T00:00:00Z"),
```

```
      "grade" : "A",
```

```
      "score" : 11
```

```
    },
```

```
    {
```

```
      "date" : ISODate("2013-06-19T00:00:00Z"),
```

```
      "grade" : "A",
```

```
        "score" : 4
    },
    {
        "date" : ISODate("2012-06-15T00:00:00Z"),
        "grade" : "A",
        "score" : 3
    }
],
"name" : "Wild Asia",
"restaurant_id" : "40357217"
}
{
    "_id" : ObjectId("6443942e421d36aff7b8c3ca"),
    "address" : {
        "building" : "1236",
        "coord" : [
            -73.8893654,
            40.81376179999999
        ],
        "street" : "238 Spofford Ave",
        "zipcode" : "10474"
    },
    "borough" : "Bronx",
    "cuisine" : "Chinese",
    "grades" : [
        {
            "date" : ISODate("2013-12-30T00:00:00Z"),
            "grade" : "A",
            "score" : 8
```

```

    },
    {
      "date" : ISODate("2013-01-08T00:00:00Z"),
      "grade" : "A",
      "score" : 10
    },
    {
      "date" : ISODate("2012-06-12T00:00:00Z"),
      "grade" : "B",
      "score" : 15
    }
  ],
  "name" : "Happy Garden",
  "restaurant_id" : "40363289"
}

```

18. Write a MongoDB query ,to find the restaurant Id, name, borough and cuisine for those restaurants which belong to the borough Staten Island or Queens or Bronx or Brooklyn.

Ans:-

```

> db.samplerestaurant.find({$or:[{borough:'Staten
Island'},{borough:'Bronx'},{borough:'Brooklyn'},{borough:'Queens'}]},
{restaurant_id:1,name:1,borough:1,cuisine:1}).limit(2).pretty()

```

```

{
  "_id" : ObjectId("6443942e421d36aff7b8c3a9"),
  "borough" : "Brooklyn",
  "cuisine" : "Hamburgers",
  "name" : "Wendy'S",
  "restaurant_id" : "30112340"
}

```

```
{
  "_id" : ObjectId("6443942e421d36aff7b8c3aa"),
  "borough" : "Brooklyn",
  "cuisine" : "Delicatessen",
  "name" : "Wilken'S Fine Food",
  "restaurant_id" : "40356483"
}
```

19. Write a MongoDB query to find the restaurant Id, name, borough and cuisine for those restaurants which are not belonging to the borough Staten Island or Queens or Bronx or Brooklyn.

And:-

20. Write a MongoDB query to find the restaurant Id, name, borough and cuisine for those restaurants which achieved a score which is not more than 10.

Ans:->

```
db.samplerestaurant.find({'grades.score':{$lt:10}},{restaurant_id:1,name:1,borough:1,cuisine:1}).limit(3).pretty();
```

```
{
  "_id" : ObjectId("6443942e421d36aff7b8c3a8"),
  "borough" : "Manhattan",
  "cuisine" : "Irish",
  "name" : "Dj Reynolds Pub And Restaurant",
  "restaurant_id" : "30191841"
}
```

```
{
  "_id" : ObjectId("6443942e421d36aff7b8c3a9"),
  "borough" : "Brooklyn",
```

```

    "cuisine" : "Hamburgers",
    "name" : "Wendy'S",
    "restaurant_id" : "30112340"
  }
  {
    "_id" : ObjectId("6443942e421d36aff7b8c3aa"),
    "borough" : "Brooklyn",
    "cuisine" : "Delicatessen",
    "name" : "Wilken'S Fine Food",
    "restaurant_id" : "40356483"
  }

```

21. Write a MongoDB query to find the restaurant Id, name, borough and cuisine for those restaurants which prepared dish except 'American' and 'Chinees' or restaurant's name begins with letter 'Wil'.

Ans:-

```

>
db.samplerestaurant.find({cuisine:{$nin:['American','Chinese']},name:{$in:[/^Wil.*$/]}},{restaurant_id:1,name:1,borough:1,cuisine:1}).limit(3).pretty();
{
  "_id" : ObjectId("6443942e421d36aff7b8c3aa"),
  "borough" : "Brooklyn",
  "cuisine" : "Delicatessen",
  "name" : "Wilken'S Fine Food",
  "restaurant_id" : "40356483"
}
{
  "_id" : ObjectId("6443942e421d36aff7b8d1b5"),
  "borough" : "Bronx",

```

```

    "cuisine" : "Pizza",
    "name" : "Wilbel Pizza",
    "restaurant_id" : "40871979"
  }
  {
    "_id" : ObjectId("6443942e421d36aff7b8d308"),
    "borough" : "Manhattan",
    "cuisine" : "Seafood",
    "name" : "Wild Edibles",
    "restaurant_id" : "40928482"
  }

```

22. Write a MongoDB query to find the restaurant Id, name, and grades for those restaurants

which achieved a grade of "A" and scored 11 on an ISODate "2014-08-11T00:00:00Z" among many of survey dates

Ans:-

```

> db.samplerestaurant.find({"grades":{"$elemMatch":{"grade":"A",score:11,date:
ISODate("2014-08-
11T00:00:00Z")}}},"restaurant_id":1,"name":1,"grades":1}).pretty().limit(3);

```

```

{
  "_id" : ObjectId("6443942e421d36aff7b8c501"),
  "grades" : [
    {
      "date" : ISODate("2014-08-11T00:00:00Z"),
      "grade" : "A",
      "score" : 11
    },
    {
      "date" : ISODate("2013-12-10T00:00:00Z"),

```



```
        "grade" : "A",
        "score" : 9
    },
    {
        "date" : ISODate("2013-06-10T00:00:00Z"),
        "grade" : "A",
        "score" : 12
    },
    {
        "date" : ISODate("2012-06-08T00:00:00Z"),
        "grade" : "A",
        "score" : 13
    },
    {
        "date" : ISODate("2012-01-25T00:00:00Z"),
        "grade" : "A",
        "score" : 8
    },
    {
        "date" : ISODate("2011-09-13T00:00:00Z"),
        "grade" : "A",
        "score" : 12
    }
],
"name" : "Don Filippo Restaurant",
"restaurant_id" : "40372417"
}
{
    "_id" : ObjectId("6443942e421d36aff7b8d2d6"),
```

```
"grades" : [  
  {  
    "date" : ISODate("2014-08-11T00:00:00Z"),  
    "grade" : "A",  
    "score" : 11  
  },  
  {  
    "date" : ISODate("2014-02-04T00:00:00Z"),  
    "grade" : "A",  
    "score" : 10  
  },  
  {  
    "date" : ISODate("2013-06-19T00:00:00Z"),  
    "grade" : "A",  
    "score" : 2  
  },  
  {  
    "date" : ISODate("2012-06-25T00:00:00Z"),  
    "grade" : "A",  
    "score" : 12  
  },  
  {  
    "date" : ISODate("2012-02-08T00:00:00Z"),  
    "grade" : "A",  
    "score" : 5  
  }  
],  
"name" : "Cosi",  
"restaurant_id" : "40922983"
```

```
}  
  
{  
  "_id" : ObjectId("6443942f421d36aff7b8de89"),  
  "grades" : [  
    {  
      "date" : ISODate("2014-08-11T00:00:00Z"),  
      "grade" : "A",  
      "score" : 11  
    },  
    {  
      "date" : ISODate("2014-02-07T00:00:00Z"),  
      "grade" : "A",  
      "score" : 12  
    },  
    {  
      "date" : ISODate("2012-12-05T00:00:00Z"),  
      "grade" : "A",  
      "score" : 8  
    },  
    {  
      "date" : ISODate("2012-07-13T00:00:00Z"),  
      "grade" : "A",  
      "score" : 12  
    },  
    {  
      "date" : ISODate("2012-02-08T00:00:00Z"),  
      "grade" : "A",  
      "score" : 9  
    }  
  ]  
}
```

```

    ],
    "name" : "Subway",
    "restaurant_id" : "41230741"
}

```

23. Write a MongoDB query to find the restaurant Id, name and grades for those restaurants where the 2nd element of grades array contains a grade of "A" and score 9 on an ISODate "2014-08-11T00:00:00Z".

Ans:-

```

>
db.samplerestaurant.find({'grades.1.grade':'A','grades.1.score':9,'grades.1.date':ISODate("2014-08-11T00:00:00Z")},{restaurant_id:1,name:1,grades:1}).limit(2).pretty();
{
  "_id" : ObjectId("6443942e421d36aff7b8c9d0"),
  "grades" : [
    {
      "date" : ISODate("2015-01-12T00:00:00Z"),
      "grade" : "A",
      "score" : 10
    },
    {
      "date" : ISODate("2014-08-11T00:00:00Z"),
      "grade" : "A",
      "score" : 9
    },
    {
      "date" : ISODate("2014-01-14T00:00:00Z"),
      "grade" : "A",
      "score" : 13
    },
  ],
}

```

```
{
  "date" : ISODate("2013-02-07T00:00:00Z"),
  "grade" : "A",
  "score" : 10
},
{
  "date" : ISODate("2012-04-30T00:00:00Z"),
  "grade" : "A",
  "score" : 11
}
],
"name" : "Club Macanudo (Cigar Bar)",
"restaurant_id" : "40526406"
}
{
  "_id" : ObjectId("6443942f421d36aff7b8e2c0"),
  "grades" : [
    {
      "date" : ISODate("2015-01-15T00:00:00Z"),
      "grade" : "A",
      "score" : 11
    },
    {
      "date" : ISODate("2014-08-11T00:00:00Z"),
      "grade" : "A",
      "score" : 9
    },
    {
      "date" : ISODate("2013-06-18T00:00:00Z"),
```

```

        "grade" : "A",
        "score" : 7
    },
    {
        "date" : ISODate("2013-01-24T00:00:00Z"),
        "grade" : "A",
        "score" : 2
    },
    {
        "date" : ISODate("2012-06-11T00:00:00Z"),
        "grade" : "A",
        "score" : 11
    }
],
"name" : "Shoolbred'S",
"restaurant_id" : "41302014"
}

```

24. Write a MongoDB query to find the restaurant Id, name, address and geographical location for those restaurants where 2nd element of coord array contains a value which is more than 42 and upto 52

Ans:-

```

>
db.rest.find({'address.coord.1':{$gt:42,$lte:52}},{'restaurant_id:1,name:1,address:1'}).pretty().limit(3).count()
66
>
db.rest.find({'address.coord.1':{$gt:42,$lte:52}},{'restaurant_id:1,name:1,address:1'}).pretty().limit(3)
{
  "_id" : ObjectId("643c318fe09dff85147c6da6"),

```

```

    "address" : {
      "building" : "47",
      "coord" : [
        -78.877224,
        42.895461999999999
      ],
      "street" : "Broadway @ Trinity Pl",
      "zipcode" : "10006"
    },
    "name" : "T.G.I. Friday'S",
    "restaurant_id" : "40387990"
  }
}
{

```

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

```

> db.rest.find().sort({name:1}).pretty()
{
  "_id" : ObjectId("643c3190e09dff85147ccc2f"),
  "address" : {
    "building" : "154",
    "coord" : [
      -73.9189064,
      40.8654529
    ],
    "street" : "Post Ave",
    "zipcode" : "10034"
  },
  "borough" : "Manhattan",
  "cuisine" : "Other",
  "grades" : [ ],
  "name" : "",
  "restaurant_id" : "50017887"
}

```

**26. Write a MongoDB query to arrange the name of the restaurants in descending along with all the columns.**

```
> db.rest.find().sort({name:-1}).pretty()
{
  "date" : ISODate("2013-04-17T00:00:00Z"),
  "grade" : "A",
  "score" : 12
},
{
  "name" : "Zz'S Pizza & Grill",
  "restaurant_id" : "41702705"
```

**27. Write a MongoDB query to arranged the name of the cuisine in ascending order and for that same cuisine borough should be in descending order.**

```
> db.rest.find().sort({cuisine:1},{borough:-1}).pretty()
{
  "_id" : ObjectId("643c318fe09dff85147c71f0"),
  "address" : {
    "building" : "1345",
    "coord" : [
      -73.959249,
      40.768076
    ],
    "street" : "2 Avenue",
    "zipcode" : "10021"
  },
  "borough" : "Manhattan",
  "cuisine" : "Afghan",
  "grades" : [
```

**28. Write a MongoDB query to know whether all the addresses contains the street or not.**

```
> db.rest.find({'address.street':{'$exists:false'}}).pretty().count()
0
>
```



**29. Write a MongoDB query which will select all documents in the restaurants collection where the coord field value is Double.**

```
> db.rest.find({'address.coord':{'$type: "double"}}).limit(3).pretty()
{
  "_id" : ObjectId("643c318fe09dff85147c6b04"),
  "address" : {
    "building" : "351",
    "coord" : [
      -73.98513559999999,
      40.7676919
    ],
    "street" : "West 57 Street",
    "zipcode" : "10019"
  },
  "borough" : "Manhattan",
  "cuisine" : "Irish",
  "grades" : [
```

**30. Write a MongoDB query which will select the restaurant Id, name and grades for those restaurants which returns 0 as a remainder after dividing the score by 7.**

```
>
db.rest.find({'grades.score':{'$mod:[7,0]}},{restaurent_id:1,name:1,grades:1}).limit(2).pretty()
{
  "_id" : ObjectId("643c318fe09dff85147c6b05"),
  "grades" : [
    {
      "date" : ISODate("2014-06-10T00:00:00Z"),
      "grade" : "A",
      "score" : 5
    },
    {
      "date" : ISODate("2013-06-05T00:00:00Z"),
      "grade" : "A",
      "score" : 7
    }
  ]
}
```

```

    },
    {
      "date" : ISODate("2012-04-13T00:00:00Z"),
      "grade" : "A",
      "score" : 12
    },
    {
      "date" : ISODate("2011-10-12T00:00:00Z"),

```

**31. Write a MongoDB query to find the restaurant name, borough, longitude and attitude and cuisine for those restaurants which contains 'mon' as three letters somewhere in its name.**

```

>
db.rest.find({name:/mon/},{name:1,borough:1,'address.coord':1,cuisine:1}).limit(3).pretty()
{
  "_id" : ObjectId("643c318fe09dff85147c6b95"),
  "address" : {
    "coord" : [
      -73.983060999999999,
      40.7441419
    ]
  },
  "borough" : "Manhattan",
  "cuisine" : "American",
  "name" : "Desmond'S Tavern"
}

```

```

>
db.rest.find({name:/mon/},{name:1,borough:1,'address.coord':1,cuisine:1}).limit(3).pretty().count()
182
>
db.rest.find({name:/. *mon. */},{name:1,borough:1,'address.coord':1,cuisine:1}).limit(3).pretty().count()
182

```

>

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

>

```
db.rest.find({name:/Mad/},{name:1,borough:1,'address.coord':1,cuisine:1}).limit(3).pretty()
{
  "_id" : ObjectId("643c318fe09dff85147c6d2f"),
  "address" : {
    "coord" : [
      -74.158427,
      40.626607
    ]
  },
  "borough" : "Staten Island",
  "cuisine" : "Spanish",
  "name" : "Real Madrid Restaurant"
}
```

**Extra Commands:**

```
>db.emp.drop()
> db.createCollection('emp',{capped:true,size:30000})
```

Create a Employee Collection add 5 documents:

Example:

```
{empno:111,ename:"Deepali
Vaidya",sal:40000.00,dept:{deptno:12,dname:"Hr",dloc:'Mumbai'},
```

```
Desg:"Analyst",mgr:{name:"Satish",num:111},project:[{name:"Project-
1",Hrs:4},{name:"project- 2",Hrs:4}]}
```

```
1.db.emp.insert({empno:111,ename:"Deepali",sal:40000.00,dept:{deptno:12,dname:"HR",dloc:"Mumbai"},Desg:"Analyst",mgr:{name:"Sathish",num:111},project:[{name:"Project-1",Hrs:4},{name:"Project-2",Hrs:4}]})
```

```
2.db.emp.insert({empno:112,ename:"Harshal",sal:35000.00,dept:{deptno:13,dname:"Finance",dloc:"Mumbai"},Desg:"Clerk",mgr:{name:"Revati",num:112},project:{name:"Project-1",Hrs:8}})
```

```
3.db.emp.insert({empno:113,ename:"Harshali",sal:50000.00,dept:{deptno:11,dname:"Development",dloc:"Mumbai"},Desg:"Architect",mgr:{name:"Ayush",num:113},project:[{name:"Project-1",Hrs:8}]})
```

```
4.db.emp.insert({empno:114,ename:"Rahul",sal:25000.00,dept:{deptno:11,dname:"Sales",dloc:"Mumbai"},Desg:"Developer",mgr:{name:"Suyash",num:114},project:[{name:"Project-1",Hrs:6},{name:"Project-2",Hrs:2}]})
```

```
5.db.emp.insert({empno:115,ename:"Virat",sal:300000.00,dept:{deptno:11,dname:"Purchase",dloc:"Mumbai"},Desg:"VP",project:[{name:"Project-1",Hrs:6},{name:"Project-2",Hrs:2}]})
```

1. All Employee's with the desg as 'CLERK' are now called as (AO) Administrative Officers. Update the Employee collection for this.

Ans:

```
> db.emp.update({Desg:"Clerk"},{$set:{Desg:"(AO )Admin Officer"}},{multi:true})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```

2. Change the number of hours for project-1 to 5 for all employees with designation analyst. Ans:

```
> db.emp.update({Desg:"Analyst",'project.name':'Project-1'},{$set:{'project.0.Hrs':5}},{multi:true})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```

3. Add 2 projects project-3 and project-4 for employee whose name starts with "Deep" with 2 hrs

Ans:

```
> db.emp.update({ename:/Deep/},{ $push:{ "project":{ $each:[{name:"Project-3",Hrs:2},{name:"Project-4",Hrs:2}]} }},{multi:true})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.emp.update({ename:/Deep/},{ $push:{ project:{ $each:[{name:"Project-3",Hrs:2},{name:"Project-4",Hrs:2}]} }},{multi:true})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```

4. Add bonus rs 2000 for all employees with salary > 50000

updateMany is a method that allows updating multiple documents in a collection at once, so it doesn't require the multi: true option.

Ans:

```
> db.emp.update({sal:{$gt:50000}},{ $inc:{sal:2000}},{multi:true})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.emp.updateMany({sal:{$gt:50000}},{ $inc:{sal:2000}})
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
>
```

5. Add bonus rs 1500 if salary <50000 and > 30000

Ans:

```
> db.emp.updateMany({sal:{$lt:50000,$gt:3000}},{ $inc:{sal:1500}})
{ "acknowledged" : true, "matchedCount" : 3, "modifiedCount" : 3 }
>
```

6. increment bounus by 1000 for all employees if salary <=30000

Ans:

```
> db.emp.updateMany({sal:{$gte:30000}},{ $inc:{sal:1000}})
{ "acknowledged" : true, "matchedCount" : 4, "modifiedCount" : 4 }
>
```

7. Change manager name to Tushar for all employees whose manager is currently "sathish"  
And manager number to 3333

Ans:

>

```
db.emp.updateMany({'mgr.name':"Sathish"},{$set:{'mgr.name':"Tushar",'mgr.num':3333}})
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
```

8. Increase salary of all employees from "purchase department" by 15000

Ans:

```
> db.emp.updateMany({'dept.dname':"Purchase"},{$inc:{sal:15000}})
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
>
```

9. Decrease number of hrs by 2 for all employees who are working on project-2

Ans:

```
> db.emp.updateMany({'project.name':"Project-2"},{$inc:{'project.$.Hrs':-2}})
{ "acknowledged" : true, "matchedCount" : 3, "modifiedCount" : 3 }
>
```

10. Delete project-3 from all employee document if they are working on the project for 4 Hrs.

Ans:

```
> db.emp.updateMany({"project.name":"Project-3","project.Hrs":2},{$unset:{'project.$':1}})
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 } {Deleted 1st appearance}
>
```

This will delete the document db.emp.deleteMany({'project':{'elemMatch':{'name':"Project-2"},"Hrs":2}}})

11. Change the salary of employees to 10000 only if their salary is < 30000

Ans:

```
> db.emp.update({'sal':{'$lt:30000}},{$set:{sal:10000}},{multi:true})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
>
```

12. Increase bonus of all employees by 500 if the bonus is <2000 or their salary is < 20000 or if employee belong to sales department

Ans:

```
> db.emp.updateMany({},{$set:{'bonus':500}})
{ "acknowledged" : true, "matchedCount" : 5, "modifiedCount" : 5 }
>
```

13. Add 2 new project at position 2 for all employees with designation analyst or salary is equal to either 30000 or 33000 or 35000

Ans:

```
db.emp.update({'$or':[{'desg':"Analyst"},{'sal':{'$in':[10000,30000,33000,35000]}]}},{push:{project:{'$each':[{'name':"Project-7",Hrs:0,position:1},{name:"Project-8",Hrs:0,position:2}]}},{multi:true})
WriteResult({
  "nMatched" : 0,
  "nUpserted" : 0,
  "nModified" : 0,
  "writeError" : {
    "code" : 9,
```

```

        "errmsg" : "multi update only works with $ operators"
    }
})

>
db.emp.update({$or:[{"Desg":"Analyst"},{sal:{$in:[10000,62000,40000]}}]},{$push:{project:{$each:[{name:"Project-7",Hrs:0},{name:"Project-8",Hrs:0}],$position:1}},{multi:true}}
WriteResult({ "nMatched" : 2, "nUpserted" : 0, "nModified" : 2 })

```

14. Delete last project of all employees with department name is "HR" and if the location is Mumbai

Ans:

```

> db.emp.update({'dept.dname':"HR",'dept.dloc':"Mumbai"},{$pop:{project:1}},{multi:true})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
>

```

15. Change designation of all employees to senior programmer if they are working on name:"Project-1" for 6 hrs

Ans:

```

> db.emp.update({'project.name':"Project-1",'project.Hrs':6},{$set:{Desg:"Senior Programmer"}},{multi:true})
WriteResult({ "nMatched" : 2, "nUpserted" : 0, "nModified" : 2 })
>

```

16. Add list of hobbies in all employees document whose manager is Rajan or Revati

Ans:

```

>
db.emp.update({$or:[{'mgr.name':"Rajan"},{'mgr.name':"Revati"}]},{$set:{'Hobbies':['swim','chess','read']}},{multi:true,upsert:true})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
>

```



17. Add list of skillset in all employee documents who are working on project-4 for 3 hrs or on project-3 for 4 hrs

Ans:

```
> db.emp.update({$or:[{'project.name':'Project-4','project.Hrs':3},{'project.name':'Project-4','project.Hrs':3}],{$set: {'Skillset': ['C++','Java']}},{multi:true,upsert:true})
WriteResult({
  "nMatched" : 0,
  "nUpserted" : 1,
  "nModified" : 0,
  "_id" : ObjectId("64419a16e09dff85147d36f7")
})
> db.emp.update({$or:[{'project.name':'Project-4','project.Hrs':3},{'project.name':'Project-4','project.Hrs':3}],{$set: {'Skillset': ['C++','Java']}},{multi:true})
WriteResult({ "nMatched" : 0, "nUpserted" : 0, "nModified" : 0 })
>
```

18. Add a new hobby as blogging at 3 position in hobbies array for all employees whose name starts with R or p and ends with j or s

Ans:

```
>
db.emp.update({ename:/^[Rp].*[js]$/},{ $push: {'Hobbies': { $each: ["Blogging"], $position: 2 } }},{multi:true,upsert:true})
WriteResult({
  "nMatched" : 0,
  "nUpserted" : 1,
  "nModified" : 0,
  "_id" : ObjectId("64419d1fe09dff85147d370a")
})
>
db.emp.update({ename:/^[Rp].*[js]$/},{ $push: {'Hobbies': { $each: ["Blogging"], $position: 2 } }},{multi:true})
WriteResult({ "nMatched" : 0, "nUpserted" : 0, "nModified" : 0 })
>
```

19. Increase salary by 10000 for all employees who are working on project-2 or project-3 or project-1.

Ans:

```
> db.emp.updateMany({'project.name':{$in:["Project-1","Project-2","Project-3"]}},{$inc:{sal:10000}})
{ "acknowledged" : true, "matchedCount" : 5, "modifiedCount" : 5 }
>
```

19.1 Decrease bonus by 1000 rs And increase salary by 1000rs for all employees whose department location is Mumbai.

Ans:

```
> db.emp.updateMany({'dept.dloc':"Mumbai"},{$inc:{bonus:-1000,sal:1000}})
{ "acknowledged" : true, "matchedCount" : 5, "modifiedCount" : 5 }
```

```
> db.emp.find().pretty()
{
  "_id" : ObjectId("6441735ab83879b38a19db69"),
  "empno" : 111,
  "ename" : "Deepali",
  "sal" : 53500,
  "dept" : {
    "deptno" : 12,
    "dname" : "HR",
    "dloc" : "Mumbai"
  },
  "Desg" : "Analyst",
  "mgr" : {
    "name" : "Tushar",
    "num" : 3333
  },
  "project" : [
    {
```

```

        "name" : "Project-1",
        "Hrs" : 5
    },
    {
        "name" : "Project-7",
        "Hrs" : 0
    },
    {
        "name" : "Project-8",
        "Hrs" : 0
    },
    null,
    {
        "name" : "Project-4",
        "Hrs" : 2
    },
    null
],
"bonus" : 0
}
{
    "_id" : ObjectId("6441736cb83879b38a19db6a"),
    "empno" : 112,
    "ename" : "Harshal",
    "sal" : 48500,
    "dept" : {
        "deptno" : 13,
        "dname" : "Finance",
        "dloc" : "Mumbai"
    },
    "Desg" : "(AO )Admin Officer",
    "mgr" : {
        "name" : "Revati",
        "num" : 112
    },
    "project" : {
        "name" : "Project-1",
        "Hrs" : 8
    },
    "bonus" : 0,
    "Hobbies" : [

```

```

        "swim",
        "chess",
        "read"
    ]
}
{
    "_id" : ObjectId("64417372b83879b38a19db6b"),
    "empno" : 113,
    "ename" : "Harshali",
    "sal" : 62000,
    "dept" : {
        "deptno" : 11,
        "dname" : "Development",
        "dloc" : "Mumbai"
    },
    "Desg" : "Architect",
    "mgr" : {
        "name" : "Ayush",
        "num" : 113
    },
    "project" : [
        {
            "name" : "Project-1",
            "Hrs" : 8
        }
    ],
    "bonus" : 0
}
{
    "_id" : ObjectId("64417379b83879b38a19db6c"),
    "empno" : 114,
    "ename" : "Rahul",
    "sal" : 21000,
    "dept" : {
        "deptno" : 11,
        "dname" : "Sales",
        "dloc" : "Mumbai"
    },
    "Desg" : "Senior Programmer",
    "mgr" : {
        "name" : "Suyash",

```

```

        "num" : 114
    },
    "project" : [
        {
            "name" : "Project-1",
            "Hrs" : 6
        },
        {
            "name" : "Project-7",
            "Hrs" : 0
        },
        {
            "name" : "Project-8",
            "Hrs" : 0
        },
        {
            "name" : "Project-2",
            "Hrs" : 0
        }
    ],
    "bonus" : 0
}
{
    "_id" : ObjectId("6441737fb83879b38a19db6d"),
    "empno" : 115,
    "ename" : "Virat",
    "sal" : 331000,
    "dept" : {
        "deptno" : 11,
        "dname" : "Purchase",
        "dloc" : "Mumbai"
    },
    "Desg" : "Senior Programmer",
    "project" : [
        {
            "name" : "Project-1",
            "Hrs" : 6
        },
        {
            "name" : "Project-2",
            "Hrs" : 0
        }
    ]
}

```

```

        }
    ],
    "bonus" : 0
}
{
    "_id" : ObjectId("64419a16e09dff85147d36f7"),
    "Skillset" : [
        "C++",
        "Java"
    ]
}
{
    "_id" : ObjectId("64419d1fe09dff85147d370a"),
    "Hobbies" : [
        "Blogging"
    ]
}

```

20. Remove all employees working on project-1

Ans:

```

> db.emp.deleteMany({"project.name":"Project-1"})
{ "acknowledged" : true, "deletedCount" : 5 }
>

```

21. Replace document of employee with name "Rahul" to some new document

Ans:

```

>
db.emp.replaceOne({ename:"Rahul"},{empno:120,ename:"Dipak",sal:55000,dept:{deptno:10,dname:"Sales",dloc:"Pune"},Desg:"HR",mgr:{name:"Akash",num:123},project:{name:"Project-9",hrs:8}})
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
>

```

22. Change skill python to python 3.8 for all employees if python is there in the skillset

Ans:

```
> db.emp.update( { Skillset: "python" }, { $set: { "Skillset.$": "Python 3.8" } }, { multi: true,
upsert: true});
```

23. Add 2 skills MongoDB and Perl at the end of skillset array for all employees who are working at Mumbai location

Ans:

```
db.emp.update({'dept.dloc':"Mumbai"},{$push:{Skillset:{$each:["MongoDB","Perl"]}}},{multi:
:true})
```

24. Delete first hobby from hobby array for all employees who are working on project-1 or project-2

Ans:

```
db.emp.update({'project.name':{$in:["Project-1","Project-2"]}},{$pop:{Skillset:-
1}},{multi:true})
```

25. Delete last hobby from hobbies array for all employees who are working on project which is at 2 nd position in projects array for 4 hrs

Ans:

```
> db.emp.update({'project.1.hrs':4},{$pop:{Hobbies:1}},{multi:true})
WriteResult({ "nMatched" : 0, "nUpserted" : 0, "nModified" : 0 })
>
```

26. Add 2 new projects at the end of array for all employees whose skillset contains Perl or python

Ans:

```
> db.emp.update({Skillset:{$in:["Perl","Python"]},"project": {$type: "array"}},
{$push:{project:{$each:[{name:"Project-3",Hrs:3},{name:"Project-4",Hrs
:5}]}}},{multi:true})
WriteResult({ "nMatched" : 6, "nUpserted" : 0, "nModified" : 6 })
>
```

27. Change hrs to 6 for project-1 for all employees if they working on the project-1 for < 6 hrs. otherwise keep the existing value.

Ans:

```
db.emp.update({"project.name": "Project-1","project.Hrs": { $lt: 6 }},{ $set: { "project.$.Hrs":
6 }},{multi:true})
WriteResult({ "nMatched" : 2, "nUpserted" : 0, "nModified" : 2 })
```

28. creates location kv pair under project array

Ans:

```
>db.emp.update({ "project.name": "Project-2" }, { $set: { "project.$.loc": "pune" } })
```