Lab 3

- Using sort, skip and limit methods of the cursor.

```
Atlas atlas-jp30ay-shard-0 [primary] sample_restaurants> db.restaurants.find().sort({"borough" : -1 });
[
  {
    _id: ObjectId("5eb3d668b31de5d588f4292c"),
    address: {
      building: '2206',
      coord: [ -74.1377286, 40.6119572 ],
      street: 'Victory Boulevard',
      zipcode: '10314'
    },
    borough: 'Staten Island',
    cuisine: 'Jewish/Kosher',
    grades: [
      {
        date: ISODate("2014-10-06T00:00:00.000Z"),
        grade: 'A',
        score: 9
      },
      {
        date: ISODate("2014-05-20T00:00:00.000Z"),
        grade: 'A',
        score: 12
      },
      {
        date: ISODate("2013-04-04T00:00:00.000Z"),
        grade: 'A',
        score: 12
      },
      {
        date: ISODate("2012-01-24T00:00:00.000Z"),
        grade: 'A',
        score: 9
      }
    ],
    name: 'Kosher Island',
    restaurant_id: '40356442'
  },
  {
    _id: ObjectId("5eb3d668b31de5d588f42950"),
    address: {
      building: '2491',
      coord: [ -74.1459332, 40.6103714 ],
      street: 'Victory Boulevard',
      zipcode: '10314'
    },
    borough: 'Staten Island',
    cuisine: 'Delicatessen',
    grades: [
      {
        date: ISODate("2015-01-09T00:00:00.000Z"),
```

```
Atlas atlas-jp30ay-shard-0 [primary] sample_restaurants> db.restaurants.find().skip(2);
[
  {
    _id: ObjectId("5eb3d668b31de5d588f4292c"),
    address: {
      building: '2206',
      coord: [ -74.1377286, 40.6119572 ],
      street: 'Victory Boulevard',
      zipcode: '10314'
    },
    borough: 'Staten Island',
    cuisine: 'Jewish/Kosher',
    grades: [
      {
        date: ISODate("2014-10-06T00:00:00.000Z"),
        grade: 'A',
        score: 9
      },
      {
        date: ISODate("2014-05-20T00:00:00.000Z"),
        grade: 'A',
        score: 12
      },
      {
        date: ISODate("2013-04-04T00:00:00.000Z"),
        grade: 'A',
        score: 12
      },
      {
        date: ISODate("2012-01-24T00:00:00.000Z"),
        grade: 'A',
        score: 9
      }
    ],
    name: 'Kosher Island',
    restaurant_id: '40356442'
  },
  {
    _id: ObjectId("5eb3d668b31de5d588f4292d"),
    address: {
      building: '469',
      coord: [ -73.961704, 40.662942 ],
      street: 'Flatbush Avenue',
      zipcode: '11225'
    },
    borough: 'Brooklyn',
    cuisine: 'Hamburgers',
    grades: [
      {
        date: ISODate("2014-12-30T00:00:00.000Z"),
```

- Running aggregation queries that use multiple stages ($match, $group, $count, $skip, $limit, $lookup, etc).


```
Atlas atlas-jp30ay-shard-0 [primary] sample_restaurants> db.restaurants.aggregate({$match : { $or : [ { borough : 'Brooklyn'}, {borough : 'Queens'}]}});
[
  {
    _id: ObjectId("5eb3d668b31de5d588f4292a"),
    address: {
      building: '2780',
      coord: [ -73.98241999999999, 40.579505 ],
      street: 'Stillwell Avenue',
      zipcode: '11224'
    },
    borough: 'Brooklyn',
    cuisine: 'American',
    grades: [
      {
        date: ISODate("2014-06-10T00:00:00.000Z"),
        grade: 'A',
        score: 5
      },
      {
        date: ISODate("2013-06-05T00:00:00.000Z"),
        grade: 'A',
        score: 7
      },
      {
        date: ISODate("2012-04-13T00:00:00.000Z"),
        grade: 'A',
        score: 12
      },
      {
        date: ISODate("2011-10-12T00:00:00.000Z"),
        grade: 'A',
        score: 12
      }
    ],
    name: 'Riviera Caterer',
    restaurant_id: '40356018'
  },
  {
    _id: ObjectId("5eb3d668b31de5d588f4292b"),
    address: {
      building: '7114',
      coord: [ -73.9068506, 40.6199034 ],
      street: 'Avenue U',
      zipcode: '11234'
    },
    borough: 'Brooklyn',
    cuisine: 'Delicatessen',
    grades: [
      {
        date: ISODate("2014-05-29T00:00:00.000Z"),
```



```
Atlas atlas-jp30ay-shard-0 [primary] sample_restaurants> db.restaurants.aggregate([
... {$match : { borough : "Brooklyn"}},
... {$count : "Dunkin' Donuts"}
... ]);
[ { "Dunkin' Donuts": 6086 } ]
Atlas atlas-jp30ay-shard-0 [primary] sample_restaurants>
```



```
Atlas atlas-jp30ay-shard-0 [primary] sample_restaurants> db.restaurants.aggregate({$skip : 7});
[
  {
    _id: ObjectId("5eb3d668b31de5d588f42931"),
    address: {
      building: '6409',
      coord: [ -74.00528899999999, 40.628886 ],
      street: '11 Avenue',
      zipcode: '11219'
    },
    borough: 'Brooklyn',
    cuisine: 'American',
    grades: [
      {
        date: ISODate("2014-07-18T00:00:00.000Z"),
        grade: 'A',
        score: 12
      },
      {
        date: ISODate("2013-07-30T00:00:00.000Z"),
        grade: 'A',
        score: 12
      },
      {
        date: ISODate("2013-02-13T00:00:00.000Z"),
        grade: 'A',
        score: 11
      },
      {
        date: ISODate("2012-08-16T00:00:00.000Z"),
        grade: 'A',
        score: 2
      },
      {
        date: ISODate("2011-08-17T00:00:00.000Z"),
        grade: 'A',
        score: 11
      }
    ],
    name: 'Regina Caterers',
    restaurant_id: '40356649'
  },
  {
    _id: ObjectId("5eb3d668b31de5d588f42932"),
    address: {
      building: '1839',
      coord: [ -73.9482609, 40.6408271 ],
      street: 'Nostrand Avenue',
      zipcode: '11226'
    },
```