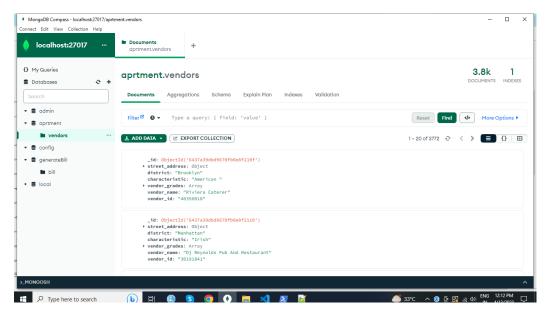
1. Import vendorsJson file in database with vendors collection



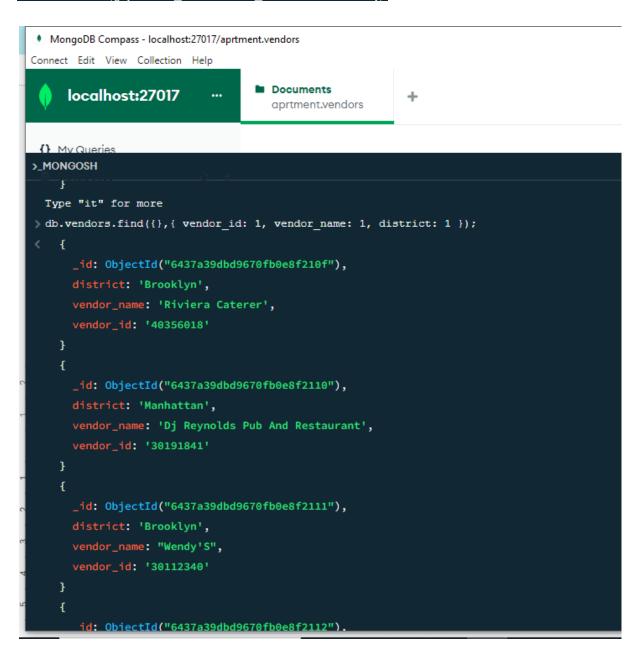


2. Display all the documents.

```
    MongoDB Compass - localhost:27017/aprtment.vendors

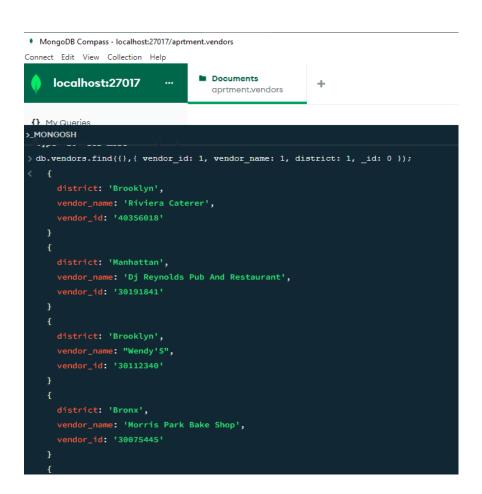
Connect Edit View Collection Help
                              Documents
     localhost:27017
                                 aprtment.vendors
 {} My Queries
>_MONGOSH
> use aprtment
'switched to db aprtment'
> db.vendors.find();
     _id: ObjectId("6437a39dbd9670fb0e8f210f"),
       building: '2780',
       coord: [
         -73.982419999999999,
        40.579505
       1,
       street: 'Stillwell Avenue',
       zipcode: '11224'
     district: 'Brooklyn',
     characteristic: 'American ',
         date: 2014-06-10T00:00:00.000Z,
         grade: 'A',
```

3. display the **fields vendor_id**, **vendor_name**, **district** for all the documents in the collection.



4.display the fields **vendor_id**, **vendor_name**,**street_address.building** but remove the field **_id** for all the documents in output.

db.vendors.find({},{ vendor_id: 1, vendor_name: 1, district: 1, _id: 0 });



5. display all the vendors which is in the district 'Brooklyn'

db.vendors.find({'district': 'Brooklyn'});

MongoDB Compass - localhost:27017/aprtment.vendors

Connect Edit View Collection Help

localhost:27017 ... Documents
aprtment.vendors

{} My Queries >_MONGOSH Type "it" for more > db.vendors.find({'district': 'Brooklyn'}); _id: ObjectId("6437a39dbd9670fb0e8f210f"), street_address: { building: '2780', coord: [-73.982419999999999, 40.579505], street: 'Stillwell Avenue', zipcode: '11224' district: 'Brooklyn', characteristic: 'American ', vendor_grades: [{ date: 2014-06-10T00:00:00.000Z, grade: 'A', score: 5 },

6. display the first 5 vendors which is in the district 'Brooklyn'

db.vendors.find({'district': 'Brooklyn'}).limit(5);

MongoDB Compass - localhost:27017/aprtment.vendors

```
Connect Edit View Collection Help

localhost:27017 ... Documents
aprtment.vendors +
```

```
>_MONGOSH
> db.vendors.find({'district': 'Brooklyn'}).limit(5);
< {
      _id: ObjectId("6437a39dbd9670fb0e8f210f"),
      street_address: {
        building: '2780',
          -73.982419999999999,
         40.579505
        1,
        street: 'Stillwell Avenue',
        zipcode: '11224'
      },
      district: 'Brooklyn',
      characteristic: 'American ',
      vendor_grades: [
        {
          date: 2014-06-10T00:00:00.000Z,
          grade: 'A',
          score: 5
        },
          date: 2013-06-05T00:00:00.000Z,
```

7. display the **next 5 vendors** after **skipping first 5** which is in the district 'Brooklyn'

db.vendors.find({'district': 'Brooklyn'}).skip(5).limit(5);

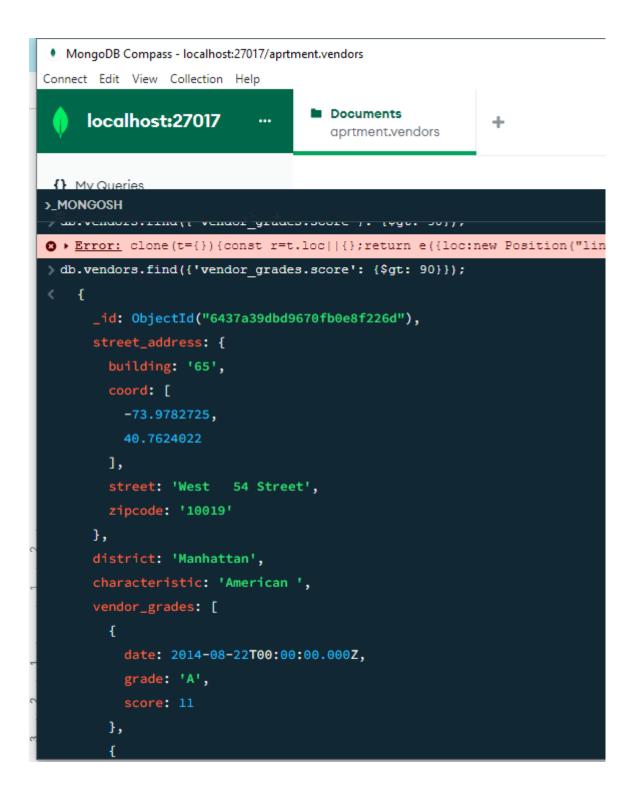
MongoDB Compass - localhost:27017/aprtment.vendors



```
{} My Queries
>_MONGOSH
    3
> db.vendors.find({'district': 'Brooklyn'}).skip(5).limit(5);
< {
      _id: ObjectId("6437a39dbd9670fb0e8f2119"),
      street_address: {
       building: '7715',
        coord: [
         -73.9973325,
         40.61174889999999
       ],
        street: '18 Avenue',
        zipcode: '11214'
      },
      district: 'Brooklyn',
      characteristic: 'American ',
      vendor_grades: [
        {
          date: 2014-04-16T00:00:00.000Z,
         grade: 'A',
         score: 5
        },
        {
          date: 2013-04-23T00:00:00.0007
```

8. find the vendors who achieved a score more than 90 in vendor_grades

db.vendors.find({'vendor_grades.score': {\$gt: 90}});



9. find the vendors that achieved a score, more than 80 but less than 100.

db.vendors.find({'vendor_grades': { \$elemMatch: {'score': {\$gt: 80, \$lt: 100}}}});

```
My Queries
>_MONGOSH
> db.vendors.find({'vendor_grades': {$eleMatch: {'score': {$gt: 80, $1t: 100}}}});

    ★ MongoServerError: unknown operator: $eleMatch

> db.vendors.find({'vendor grades': { $elemMatch: {'score': {$gt: 80, $lt: 100}}}});
     _id: ObjectId("6437a39dbd9670fb0e8f230e"),
       building: '345',
       coord: [
         -73.9864626,
        ],
       street: 'East 6 Street',
        zipcode: '10003'
      },
     district: 'Manhattan',
      characteristic: 'Indian',
      vendor_grades: [
          date: 2014-09-15T00:00:00.000Z,
         grade: 'A',
         score: 5
```

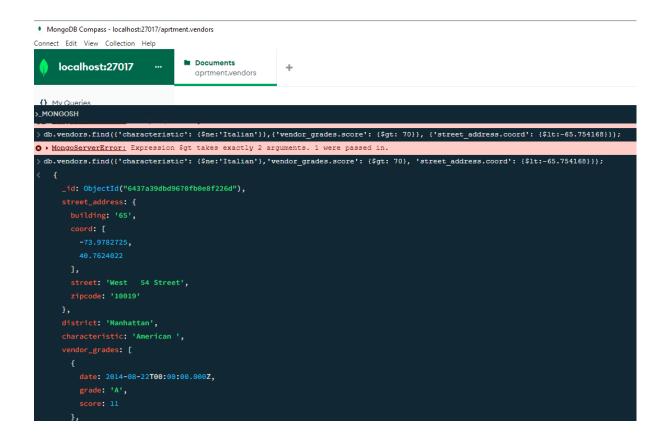
10. find the vendors which are located in **latitude(coord) value less than** -92.754168.

```
    MongoDB Compass - localhost:27017/aprtment.vendors

Connect Edit View Collection Help
                                    Documents
     localhost:27017
                                                            +
                                      aprtment.vendors
 Mv Queries
>_MONGOSH
      vendor_name: 'West 79Th Street Boat Basin Cafe',
      vendor_id: '40756344'
    }
> db.vendors.find({'street address.coord': {$1t: -92.754168}});
      _id: ObjectId("6437a39dbd9670fb0e8f2758"),
      street_address: {
        building: '3707',
        coord: [
          -101.8945214,
          33.5197474
        ],
        street: '82 Street',
        zipcode: '11372'
      district: 'Queens',
      characteristic: 'American ',
      vendor_grades: [
          date: 2014-06-04T00:00:00.000Z,
          grade: 'A',
          score: 12
```

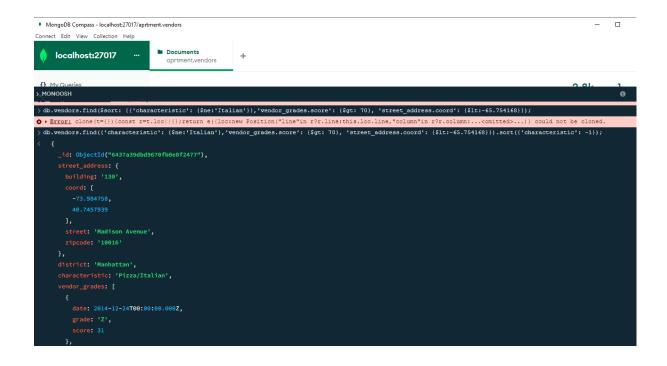
11. find the vendors that characteristic is not 'Italian' and their grade score **more** than 70 and latitude less than -65.754168

db.vendors.find({'characteristic': {\$ne:'Italian'},'vendor_grades.score': {\$gt: 70}, 'street_address.coord': {\$lt:-65.754168}});



12. find the vendors that characteristic is not 'Italian' and their grade score more than 70 and latitude less than -65.754168. The document must be displayed according to the characteristic in descending order.

db.vendors.find({'characteristic': {\$ne:'Italian'},'vendor_grades.score': {\$gt: 70}, 'street_address.coord': {\$lt:-65.754168}}).sort({'characteristic': -1});



13. find the vendor_id, vendor_name, for those vendors which contain 'Gio' as first three letters for its name.

```
    MongoDB Compass - localhost:27017/aprtment.vendors

Connect Edit View Collection Help
                                 Documents
     localhost:27017
                                                        +
                                   aprtment.vendors
 () My Queries
>_MONGOSH
> db.vendors.find({vendor name: {$regex: /^Gio/i}},{vendor_id: 1, vendor_name});
> db.vendors.find({'vendor_name': {$regex: /^Gio/i}},{'vendor_id': 1, 'vendor_name'});
♠ Error: clone(t={}){const r=t.loc||{};return e({loc:new Position("line"in r?r.line:this.loc
> db.vendors.find({'vendor_name': {$regex: /^Gio/i}},{'vendor_id': 1, 'vendor_name':1});
      _id: ObjectId("6437a39dbd9670fb0e8f2762"),
      _id: ObjectId("6437a39dbd9670fb0e8f2a35"),
      vendor_name: "Giovanni'S Restaurant & Cafe",
      vendor_id: '40641408'
    }
      _id: ObjectId("6437a39dbd9670fb0e8f2c6f"),
      vendor_name: "Giorgio'S Of Gramercy",
      vendor_id: '40741900'
    }
       id: ObjectId("6437a39dbd9670fb0e8f2f0e")
```

14. find the vendor_id, vendor_name, for those vendors which contain 'cas' as last three letters for its name.

15. find the vendor_id, vendor_name, for those vendors which contain 'Rpg' as three letters somewhere in its name

```
}
}
> db.vendors.find({'vendor_name': {$regex: 'Rpg'}}, {'vendor_id': 1, 'vendor_name':1});

> db.vendors.find({'vendor_name': {$regex: /Rpg/i}}, {'vendor_id': 1, 'vendor_name':1});

aprtment>
```

16. arrange the name of the vendors in ascending order along with all the columns.

db.vendors.find().sort({'vendor_name':1});

```
>_MONGOSH
> db.vendors.find().sort({'vendor_name':1});
< {
      _id: ObjectId("6437a39dbd9670fb0e8f2d9f"),
      street_address: {
        building: '129',
        coord: [
          -73.962943,
         40.685007
        ],
        street: 'Gates Avenue',
        zipcode: '11238'
      },
      district: 'Brooklyn',
      characteristic: 'Italian',
      vendor_grades: [
        {
          date: 2014-03-06T00:00:00.000Z,
          grade: 'A',
          score: 5
        },
          date: 2013-08-29T00:00:00.000Z,
```

17. arrange the name of the vendors in descending order along with all the columns.

```
{} My Queries
>_MONGOSH
 Type "it" for more
> db.vendors.find().sort({'vendor_name':-1});
     _id: ObjectId("6437a39dbd9670fb0e8f21cb"),
      street_address: {
        building: '6946',
        coord: [
         -73.8811834,
         40.7017759
       ],
        street: 'Myrtle Avenue',
       zipcode: '11385'
      },
      district: 'Queens',
      characteristic: 'German',
      vendor_grades: [
        {
         date: 2014-09-24T00:00:00.000Z,
          grade: 'A',
          score: 11
        },
```

18. query to know whether all the street_address contains the street or not.

```
{} My Queries
>_MONGOSH
 Type "it" for more
> db.vendors.find({'street_address.street': {$exists : true}});
< {
      _id: ObjectId("6437a39dbd9670fb0e8f210f"),
      street_address: {
        building: '2780',
        coord: [
          -73.982419999999999,
         40.579505
        ],
        street: 'Stillwell Avenue',
        zipcode: '11224'
      },
      district: 'Brooklyn',
      characteristic: 'American ',
      vendor_grades: [
        {
          date: 2014-06-10T00:00:00.000Z,
          grade: 'A',
          score: 5
        },
          date: 2013-06-05T00:00:00.000Z,
```

19. query which will select all documents in the vendors collection where the 'coord' field value is Double.

```
> db.vendors.find({'street_address.coord': {$type: 'double'}});
< {
     _id: ObjectId("6437a39dbd9670fb0e8f210f"),
       building: '2780',
       coord: [
         -73.982419999999999,
         40.579505
       1,
       street: 'Stillwell Avenue',
       zipcode: '11224'
     },
     district: 'Brooklyn',
      characteristic: 'American ',
      vendor_grades: [
         date: 2014-06-10T00:00:00.000Z,
         grade: 'A',
         score: 5
        },
```

20. find the vendors that have at least one grade with a score of less than 5 and that are located in the district of Manhattan or Brooklyn, and their characteristics are not Italian.

db.vendors.find({\$and: [{ "vendor_grades.score": { \$lt: 5 } }, { "characteristic": { \$ne: "Italian" } },{ \$or: [{ "district": "Manhattan" }, { "district": "Brooklyn" }] }]});

```
D. Export clone(t=())(const r=t.loc)|();return e((locinew Position("line"in r?r.lineithis.loc.line,"column"in r?r.column:..<omitted>...)) could not be cloned.

**D. **Error; clone(t=())(const r=t.loc)|();return e((locinew Position("line"in r?r.lineithis.loc.line,"column"in r?r.column:...<omitted>...)) could not be cloned.

**D. **Error; clone(t=())(const r=t.loc)|();return e((locinew Position("line"in r?r.lineithis.loc.line,"column"in r?r.column....<omitted>...)) could not be cloned.

**D. **Error; clone(t=())(const r=t.loc)|();return e((locinew Position("line"in r?r.lineithis.loc.line,"column"in r?r.column:...<omitted>...)) could not be cloned.

**D. **Error; clone(t=())(const r=t.loc)|();return e((locinew Position("line"in r?r.lineithis.loc.line,"column"in r?r.column:...<omitted>...)) could not be cloned.

**D. **Error; clone(t=())(const r=t.loc)|();return e((locinew Position("line"in r?r.lineithis.loc.line,"column"in r?r.column:...<omitted>...)) could not be cloned.

**D. **Error; clone(t=())(const r=t.loc)|();return e((locinew Position("line"in r?r.lineithis.loc.line,"column"in r?r.column:...<omitted>...)) could not be cloned.

**D. **Error; clone(t=())(const r=t.loc)|();return e((locinew Position("line"in r?r.lineithis.loc.line,"column"in r?r.column:...<omitted>...) could not be cloned.

**D. **Error; clone(t=())(const r=t.loc)|();return e((locinew Position("line"in r?r.lineithis.loc.line,"column"in r?r.column....<omitted>...) could not be cloned.

**D. **Error; clone(t=())(const r=t.loc)|();return e((locinew Position("line"in r?r.lineithis.loc.line,"column"in r?r.column....<omitted>...) could not be cloned.

**D. **Error; clone(t=())(const r=t.loc)|();return e((locinew Position("line"in r?r.lineithis.loc.line,"column"in r?r.column....<omitted>...) could not be cloned.

**D. **Error; clone(t=())(const r=t.loc)|();return e((locinew Position("line"in r?r.lineithis.loc.line,"column"in r?r.column....<omitted>...) could not be cloned.

**D. **Error; clone(t=())(const r=t.loc)|();return e((locinew Position(
```