Section 1

1. Create a database

```
> use new test databse
switched to db new_test_databse
> show dbs
admin
            0.000GB
config
            0.000GB
            0.000GB
local
restaurants 0.004GB
> db.test.insert({"name" : "mongo_test"})
WriteResult({ "nInserted" : 1 })
> show dbs
admin
                 0.000GB
config
                0.000GB
local
                0.000GB
new_test_databse 0.000GB
restaurants 0.004GB
```

2. Drop a database

3. Creating a collection

```
> use new_test_mongo
switched to db new_test_mongo
> db.createCollection("test_collection")
{ "ok" : 1 }
>
```

4. Dropping a collection

```
> use new_test_mongo
switched to db new_test_mongo
> db.test_collection.drop()
true
>
```

5. Insert a document

```
> db.test_collection.insert({title: "Mongo Db practice", sescription: "this is my first MongoDB document"})
WriteResult({ "nInserted" : 1 })
>
```

6. Query a document

```
> db.test_collection.find().pretty()
{
          "_id" : ObjectId("5e97a98528415819d0ef6283"),
          "title" : "Mongo Db practice",
          "sescription" : "this is my first MongoDB document"
}
}
```

7. Update a document

8. Delete a document

Section 2

Question 1:

```
> use restaurants
switched to db restaurants
> db.restaurants.count()
25359
>
```

Question 2:

```
db.runCommand({distinct: "restaurants", key: "cuisine"})
                                                                                                 "values" : [
    "Afghan",
    "African",
    "American",
    "Amenian",
    "Asian",
    "Australian",
    "Bagels/Pretzels",
    "Bakery",
    "Bangladeshi",
    "Barbecue",
                                                                                                                                                                                                                                                             "Barbecue",
"Bottled beverages, including water, sodas, juices, etc.",
                                                                                                                                                                                                                                                 "Barbecue",
"Bottled beverages, i
"Brazilian",
"Cafåb/Coffee/Tea",
"Cafjun",
"Californian",
"Californian",
"Chicken",
"Chilean",
"Chilean",
"Chinese/Luban ",
"Chinese/Japanese",
"Chinese/Japanese",
"Continental",
"Creole",
"Creole/Cajun",
"Czech",
"Delicatessen",
"Donuts",
"Eastern European",
"Egyptian",
"Egyptian",
"Ethiopian",
"Filipino",
"French",
"Fruits/Vegetables",
"German",
"Grach",
"Grach",
"Grach",
"German",
"Grach",
"German",
"Grach",
"German",
"Grach",
"Gr
                                                                                                                                                                                                                                "Ethiopian",
"Filipino",
"French",
"Fruits/Vegetables",
"Geream",
"Greek",
"Hamburgers",
"Hawaiian",
"Ice Cream, Gelato, Yogurt, Ices",
"Indian",
"Indonesian",
"Iranian",
"Irish",
"Italian",
"Japanese",
"Juice, Smoothies, Fruit Salads",
"Korean",
"Mediterranean',
"Mediterranean',
"Mediterranean',
"Mediterranean',
"Middle Eastern",
"Moroccan",
"Not Listed/Not Applicable",
Nuts/Confectionary",
"Other",
"Parkistani",
"Parakes/Waffles",
"Peruvian",
"Pizza",
"Pizza",
"Pizza",
"Pizza",
"Pizza",
"Polynesian",
"Soldsin",
"Soldsin",
"Sondwiches/Salads/Mixed Buffet",
"Scandinavian",
"Seafood",
"Soul Food",
```

Question 3:

```
> db.restaurants.find({$and:[{"cuisine":"Indian"},{"address.zipcode":"11215"}]},{"_id":0,"name":1})
{ "name" : "Kinara Indian Restaurant" }
{ "name" : "Baluchi'S" }
{ "name" : "Kanan Indian Restaurant" }
{ "name" : "New Aarpan" }
{ "name" : "Indian Spice" }
>
```

Question 4:

```
> db.restaurants.find({$and:[{$or:[{"cuisine":"American"},{"cuisine":"Chinese"}]},{"borough":"Bronx"}]},{"_id":0,"name":1})
{ "name" : "Wild Asia" }
{ "name" : "Happy Garden" }
{ "name" : "Happy Garden" }
{ "name" : "Manhem Club" }
{ "name" : "The New Starling Athletic Club Of The Bronx" }
{ "name" : "The New Starling Athletic Club Of The Bronx" }
{ "name" : "The Punch Bowl" }
{ "name" : "Munchtime" }
{ "name" : "Manina Delray" }
{ "name" : "Beaver Pond" }
{ "name" : "Beaver Pond" }
{ "name" : "Blue Bay Restaurant" }
{ "name" : "Blue Bay Restaurant" }
{ "name" : "Po & K'S Grill" }
{ "name" : "John Mulligan'S Fireside Pub" }
{ "name" : "Quality Cafe & Restaurant" }
{ "name" : "Riverdale Diner" }
{ "name" : "Riverdale Diner" }
{ "name" : "Stort Stop Restaurant" }
}
Type "it" for more
```

Question 5:

```
> db.restaurants.find({"name":{$regex:/Food/}},{"_id":0,"name":1}).pretty()
{ "name" : "Wilken'S Fine Food" }
{ "name" : "Seuda Foods" }
{ "name" : "American Museum Of Natural History Food Court" }
{ "name" : "Pax Wholesome Foods" }
{ "name" : "Pax Wholesome Foods" }
{ "name" : "Pox Wholesome Foods" }
{ "name" : "Fordham Fried Chicken & Sea Food" }
{ "name" : "Downtown Bakery Ii Mexican Food" }
{ "name" : "Columbus Gourmet Food" }
{ "name" : "Food For Thought Library Cafe" }
{ "name" : "Food Mart Deli" }
{ "name" : "Food Mart Deli" }
{ "name" : "Food Merchants" }
{ "name" : "Food Fair Deli & Pizza" }
{ "name" : "Tasty Fast Food" }
{ "name" : "Tasty Fast Food" }
{ "name" : "The Food Hut" }
{ "name" : "Tandoori Food & Bakery" }
{ "name" : "Snack Bar (Located Between A-B Between Fancy Food And Masters)" }
Type "it" for more
}
```

Question 6:

```
> db.restaurants.aggregate([{$match:{"cuisine":"Italian"}},{$group:{_id:"$borough",total:{$sum:1}}},{$sort:{"total":-1}},{$project:{"_id":1,"total":1}}])
{ "_id" : "Manhattan", "total" : 621 }
{ "_id" : "Brooklyn", "total" : 192 }
{ "_id" : "Queens", "total" : 131 }
{ "_id" : "Staten Island", "total" : 73 }
{ "_id" : "Bronx", "total" : 52 }
}
```

Question 7:

```
> db.restaurants.aggregate([{$match:{"cuisine":"Italian"}},{$group:{_id:"$borough",total:{$sum:1}}},{$sort:{"total":-1}},{$project:{"_id":1,"total":1}}])
{ "_id" : "Manhattan", "total" : 621 }
{ "_id" : "Brooklyn", "total" : 192 }
{ "_id" : "Queens", "total" : 131 }
{ "_id" : "Staten Island", "total" : 73 }
{ "_id" : "Bronx", "total" : 52 }
```