

SECTION 1

1 / 2

```
> use my_db
switched to db my_db
> db.dropDatabase()
{ "ok" : 1 }
```

3 / 4

```
> db.createCollection("test")
{ "ok" : 1 }
> db.test.drop()
true
```

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```
> db.my_db.insert({
... title: "Practice",
... description: "my first mongo doc!"
... })
WriteResult({ "nInserted" : 1 })
> db.my_db.find().pretty()
{
  "_id" : ObjectId("607c755849d103d953adf563"),
  "title" : "Practice",
  "description" : "my first mongo doc!"
}
> db.my_db.find()
{ "_id" : ObjectId("607c755849d103d953adf563"), "title" : "Practice", "description" : "my first mongo doc!" }
```

7

```
> db.my_db.update({
... 'title': 'Practice'}, {$set: {'title': 'AHHHHHHHHHH'}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.my_db.find().pretty()
{
  "_id" : ObjectId("607c755849d103d953adf563"),
  "title" : "AHHHHHHHHHH",
  "description" : "my first mongo doc!"
}
```

8

```
> db.my_db.remove({ status: "P"},1)
WriteResult({ "nRemoved" : 0 })
> db.my_db.remove({ status: "P"})
WriteResult({ "nRemoved" : 0 })
>
```

SECTION 2

1

```
> db.restaurants.find().count()  
25359
```

2

```
> db.restaurants.distinct("cuisine").sort()  
[  
  "Afghan",  
  "African",  
  "American",  
  "Armenian",  
  "Asian",  
  "Australian",  
  "Bagels/Pretzels",  
  "Bakery",  
  "Bangladeshi",  
  "Barbecue",  
  "Bottled beverages, including water, sodas, juices, etc.",  
  "Brazilian",  
  "Caf /Coffee/Tea",  
  "Caf /Coffee/Tea",  
  "Cajun",  
  "Californian",  
  "Caribbean",  
  "Chicken",  
  "Chilean",  
  "Chinese",  
  "Chinese/Cuban",  
  "Chinese/Japanese",  
  "Continental",  
  "Creole",  
  "Creole/Cajun",  
  "Czech",  
  "Delicatessen",  
  "Donuts",  
  "Eastern European",  
  "Egyptian",  
  "English",  
  "Ethiopian",  
  "Filipino",  
  "French",  
  "Fruits/Vegetables",  
  "German",  
  "Greek",  
  "Hamburgers",  
  "Hawaiian",  
  "Hotdogs",  
  "Hotdogs/Pretzels",  
  "Ice Cream, Gelato, Yogurt, Ices",  
  "Indian",  
  "Indonesian",  
  "Iranian",  
  "Irish",  
  "Italian",  
  "Japanese",  
  "Jewish/Kosher",  
  "Juice, Smoothies, Fruit Salads",  
  "Korean",  
  "Latin (Cuban, Dominican, Puerto Rican, South & Central American)",  
  "Mediterranean",  
  "Mexican",  
  "Middle Eastern",  
  "Moroccan",  
  "Not Listed/Not Applicable",  
  "Nuts/Confectionary",  
  "Other",  
  "Pakistani",  
  "Pancakes/Waffles",  
  "Peruvian",  
  "Pizza",  
  "Pizza/Italian",  
  "Polish",  
  "Polynesian",  
  "Portuguese",  
  "Russian",  
  "Salads",  
]
```

3

```
> db.restaurants.find({$and : [{cuisine : "Italian" }, {"address.zipcode" : "10023" }]} , {name:1 , _id:0})
{ "name" : "Fiorellos" }
{ "name" : "Gabriel'S Bar & Grill" }
{ "name" : "Il Violino" }
{ "name" : "Pomodoro Ristorante" }
{ "name" : "Arte Cafe" }
{ "name" : "Nick And Toni'S Cafe" }
{ "name" : "Bello Giardino" }
{ "name" : "Cesca" }
{ "name" : "Arte Around The Corner" }
{ "name" : "Riposo 72" }
{ "name" : "Salumeria Rossi Parmacotto" }
{ "name" : "Luce Restaurant & Enoteca" }
{ "name" : "Gina La Fornarina" }
{ "name" : "Lincoln Ristorante" }
{ "name" : "The Leopard At Des Artistes" }
{ "name" : "Pappardella" }
{ "name" : "Joanne Trattoria" }
```

4

```
> db.restaurants.aggregate( [ { "$match" : { "cuisine": "Greek" } }, { "$group": { "_id": { "borough": "$borough" }, "count": { "$sum": 1 } } }, { "$sort": { "count": -1 } } ] )
{ "_id" : { "borough" : "Queens" }, "count" : 58 }
{ "_id" : { "borough" : "Manhattan" }, "count" : 35 }
{ "_id" : { "borough" : "Brooklyn" }, "count" : 14 }
{ "_id" : { "borough" : "Bronx" }, "count" : 4 }
>
```

5

```
> db.restaurants.find( {"name": /. *Pho .*/}, {name: 1, _id: 0} ).pretty()
{ "name" : "Pho Bac Vietnamese Seafood Cuisine" }
{ "name" : "Pho Hoai Bay Ridge" }
{ "name" : "Pho Bang Restaurant" }
{ "name" : "Pho 32 & Shabu" }
{ "name" : "Pho Bang Restaurant" }
{ "name" : "Pho Viet-Nam Restaurant" }
{ "name" : "Pho Bang Restaurant" }
{ "name" : "Pho Grand" }
{ "name" : "Pho Vietnamese Restaurant" }
{ "name" : "Baquette Pho Sure" }
{ "name" : "Pho Hoai Rest" }
{ "name" : "Pho Mac Vietnamese Cuisine" }
{ "name" : "Pho Hoang" }
{ "name" : "Pho Viet" }
{ "name" : "Pho Tay Ho 86 Vietnamese Restaurant" }
{ "name" : "Pho Seng" }
{ "name" : "Pho 32" }
{ "name" : "Pho Vietnam 87 Corporation" }
{ "name" : "Pho Rainbow Inc" }
{ "name" : "Pho Thanh Hoai 1" }
Type "it" for more
> it
{ "name" : "Pho Saigon" }
```

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```
> db.restaurants.aggregate([ { "$match" : { "cuisine": "Mexican" } }, { "$group": { "_id": { "borough": "$borough" },
  "count": { "$sum": 1 } } }, { "$sort": { "count": -1 } } ])
{ "_id" : { "borough" : "Manhattan" }, "count" : 273 }
{ "_id" : { "borough" : "Brooklyn" }, "count" : 212 }
{ "_id" : { "borough" : "Queens" }, "count" : 146 }
{ "_id" : { "borough" : "Bronx" }, "count" : 89 }
{ "_id" : { "borough" : "Staten Island" }, "count" : 33 }
{ "_id" : { "borough" : "Missing" }, "count" : 1 }
>
```

7

```
> db.restaurants.aggregate([ { "$match": { "borough": "Brooklyn", "cuisine": "Italian" } }, { "$unwind": "$grades" },
  { "$group": { "_id": "$name", "sum_score": { "$sum": "$grades.score" } } },
  { "$sort": { "sum_score": -1 } }, { "$limit": 5 } ]).pretty()
{ "_id" : "Joe'S Pizza", "sum_score" : 173 }
{ "_id" : "Anella", "sum_score" : 153 }
{ "_id" : "Tutta Pasta", "sum_score" : 124 }
{ "_id" : "Peppino'S", "sum_score" : 104 }
{ "_id" : "Doc Wine Bar", "sum_score" : 103 }
>
```