

Aluno: **Pedro Fortunato, P3 em Ciência de dados**

Matéria: **tópicos especiais em ciência de dados**

Criando Database em MongoDB e MongoDBCompass, importando dados da tabela “Restaurants”, criando, minerando e manipulando os dados.

```
db.restaurants.insertOne({  
  "address": {  
    "building": "1007",  
    "coord": [-73.856077, 40.848447],  
    "street": "Morris Park Ave",  
    "zipcode": "10462"  
  },  
  "borough": "Bronx",  
  "cuisine": "Bakery",  
  "grades": [  
    {"date": ["$date": 1393864800006), "grade": "A", "score": 2},  
    {"date": ["$date": 1378857600000), "grade": "A", "score": 6},  
    {"date": ["$date": 1358985600000), "grade": "A", "score": 10},  
    {"date": ["$date": 1322006400000), "grade": "A", "score": 9},  
    {"date": {"$date": 1299715200000), "grade": "B", "score": 14}  
  ],  
  "name": "Morris Park Bake Shop",
```

```
"restaurant_id": "30075445"
})
{
  acknowledged: true,
  InsertedId: ObjectId('66075a98e8884ed71e7df4ef')
}
```

```
db.restaurants.insertone({
  "address": {
    "street": "2 Avenue",
    "zipcode": "10075",
    "building": "1480",
    "coord": [-73.9557413, 40.7726266]
  },
  "borough": "Manhattan",
  "cuisine": "Italian",
  "grades" : [
    {
      "date": ISODate("2014-10-01T00:00:00Z"),
      "grade": "A",
      "score": 11
    },
  ],
})
```

```
{
  "date": ISODate("2014-01-16T00:00:00Z"),
  "grade": "B",
  "score": 17
},
1,
"name": "Vella",
"restaurants_id" "41764620"
}))
{
  acknowledged: true,
  insertedId: ObjectId('66875ddde8884ed71e7df4f8')
}
```

```
db.restaurantes.find({})
```

```
db.restaurantes.find({borough: "Manhattan"})
```

```
db.restaurantes.find({"address.zipcode": "10022"})
```

```
db.restaurantes.find({"grades.grade": "B"})
```

```
db.restaurantes.find({"grades.score": {$gt: 30}})
```

```
db.restaurantes.find({"grades.score": {$lt: 10}})
```

```
db.restaurantes.find({$and: [{"cuisine": "Italian"},  
{"address.zipcode": "10075"}]})
```

```
db.restaurantes.find({$or: [{"cuisine": "Italian"},  
{"address.zipcode": "10075"}]})
```