

Project based on three collections restaurant, zipcode and yelp dataset.

Restaurant dataset holds the following fields:

```
db.restaurent.findOne()
```

```
{
  "_id" : ObjectId("5a2ae97f4f25d1ae488a9ede"),
  "address" : {
    "building" : "1007",
    "coord" : [
      -73.856077,
      40.848447
    ],
    "street" : "Morris Park Ave",
    "zipcode" : "10462"
  },
  "borough" : "Bronx",
  "cuisine" : "Bakery",
  "grades" : [
    {
      "date" : ISODate("2014-03-03T00:00:00Z"),
      "grade" : "A",
      "score" : 2
    },
    {
      "date" : ISODate("2013-09-11T00:00:00Z"),
      "grade" : "A",
      "score" : 6
    },
    {
      "date" : ISODate("2013-01-24T00:00:00Z"),
      "grade" : "A",
      "score" : 10
    },
    {
      "date" : ISODate("2011-11-23T00:00:00Z"),
      "grade" : "A",
      "score" : 9
    },
    {
      "date" : ISODate("2011-03-10T00:00:00Z"),
```

```

        "grade" : "B",
        "score" : 14
    }
],
"name" : "Morris Park Bake Shop",
"restaurant_id" : "30075445"
}

```

Zipcode dataset holds the following fields:

```

db.zipcode.findOne()
{
  "_id" : "01001",
  "city" : "AGAWAM",
  "loc" : [
    -72.622739,
    42.070206
  ],
  "pop" : 15338,
  "state" : "MA"
}

```

yelp dataset holds the following fields:

```

db.business.findOne()
{
  "business_id": "YDf95gJZaq05wvo7hTQbbQ",
  "name": "Richmond Town Square",
  "neighborhood": "",
  "address": "691 Richmond Rd",
  "city": "AGAWAM",
  "state": " MA ",
  "postal_code": "44143",
  "latitude": 41.5417162,
  "longitude": -81.4931165,
  "stars": 2.0,
  "review_count": 17,
  "is_open": 1,
  "attributes": {
    "RestaurantsPriceRange2": 2,

```

```

        "BusinessParking": {
            "garage": false,
            "street": false,
            "validated": false,
            "lot": true,
            "valet": false
        },
        "BikeParking": true,
        "WheelchairAccessible": true
    },
    "categories": ["Shopping", "Shopping Centers"],
    "hours": {
        "Monday": "10:00-21:00",
        "Tuesday": "10:00-21:00",
        "Friday": "10:00-21:00",
        "Wednesday": "10:00-21:00",
        "Thursday": "10:00-21:00",
        "Sunday": "11:00-18:00",
        "Saturday": "10:00-21:00"
    }
}

```

Using lookup in Mongo to explore three connections:

```

db.zipcode.aggregate([
    {
        $lookup:
        {
            from: "restaurent",
            localField: "_id",
            foreignField: "address.zipcode",
            as: "restaurant_info"
        }
    },
    {
        $lookup:
        {
            from: "business",
            localField: "city",
            foreignField: "city",

```

```

        as: "business_info"
    }
},
{
    $match: { city: " AGAWAM "}
}
]).pretty();

```

Using aggregate pipelines in Mongo to explore same connections:

```

db.zipcode.aggregate([
    {
        $lookup:
        {
            from: "restaurent",
            pipeline: [
                { $project: { _id:0, Restaurant_name: "$name", city: "$city", state:
"$state" }}
            ],
            as: "add_update"
        }
    }
])

```