Non-relational Database: Lab 1

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1   Questions

1. **Find the restaurant ID of "Once Upon A Tart".**

```
db.restaurants.find(
    { name: "Once Upon A Tart" },
    { restaurant_id: 1, _id: 0 }
)
```

2. **Find all restaurants whose name has "Ice Cream" in it, return only the restaurant's ids and names.**

```
db.restaurants.find(
    { name: /Ice Cream/i },
    { restaurant_id: 1, name: 1, _id: 0 }
)
```

3. **Find the names of all restaurants that serve either Chinese or Italian cuisine and are located in the Brooklyn borough.**

```
db.restaurants.find(
    {
        borough: "Brooklyn",
        cuisine: { $in: ["Chinese", "Italian"] }
    },
    { name: 1, _id: 0 }
)
```

4. **Find the list of Restaurants with zip code equal to 11211.**

```
db.restaurants.find(
    { "address.zipcode": "11211" },
    { name: 1, _id: 0 }
)
```

5. Find the restaurants which do not prepare any cuisine of 'Italian' and achieved a grade point 'A' in 2015. The document must be displayed according to the cuisine in descending order. Hint: use sort()

```
db.restaurants.find(
    {
        cuisine: { $ne: "Italian" },
        "grades.grade": "A",
        "grades.date": {$gte: ISODate("2015-01-01"),
                        $lte: ISODate("2015-12-31")}
    }
).sort({ cuisine: -1 })
```

6. Update the "cuisine" field with "Hamburgers (Fast food)" for all restaurants with name "Mcdonald'S".

```
db.restaurants.updateMany(
    { name: /Mcdonald'S/i },
    { $set: { cuisine: "Hamburgers (Fast food)" }}
)
```

7. Add a new grade to "El Nuevo Jb Bakery" at the top of the array.

```
db.restaurants.updateOne(
    { name: "El Nuevo Jb Bakery" },
    { $push: { grades: { $each:
        [{ grade: "A", score: 10, date: new Date()}],
        $position: 0 }}}
)
```