

**1. Give an (non-trivial) example XML document that conforms to the above DTD.**

```
<flightlist>
  <flight number="ABC111" origin="BOS" dest="JFK">
    <passengers date="2024-09-30">
      <passenger name="Alexa Bezos" seat="15B"/>
      <passenger name="Jada Smith" seat="15C"/>
    </passengers>
  </flight>

  <flight number="XYZ222" origin="JFK" dest="SFO">
    <passengers date="2024-09-30">
      <passenger name="Smith Brown" seat="15C"/>
      <passenger name="Clara Dune " seat="15D"/>
    </passengers>
  </flight>
</flightlist>
```

**2a. Give the JSON representation of the object cs125.**

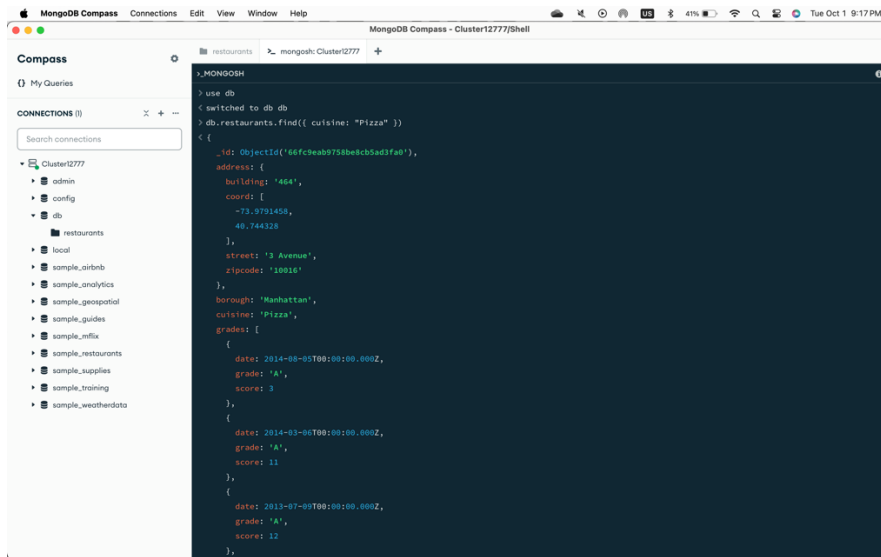
```
{
  "name": "CS 125",
  "enrollment": 500,
  "averageGrade": 3.9
}
```

**2b. Give the JSON representation of the new object cs125.**

```
{
  "name": "CS 125",
  "enrollment": 500,
  "averageGrade": 3.9,
  "instructor": {
    "name": "Geoffrey",
    "age": 38
  },
  "grades": [4, 4, 3]
}
```

**3i. Select all entries in the database WHERE the cuisine is Pizza.**

```
db.restaurants.find({ cuisine: "Pizza" })
```

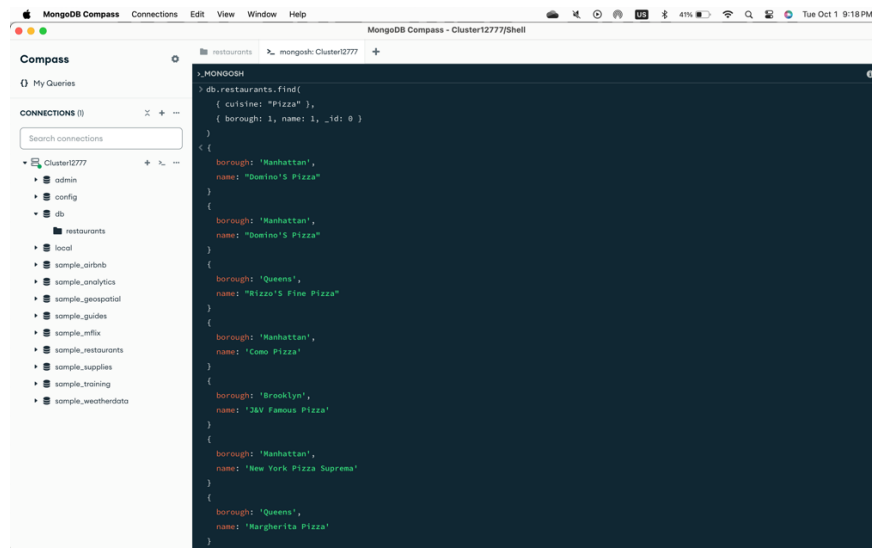


**3ii. Select only the boroughs and name of the restaurant where the cuisine is Pizza. Study how you can avoid displaying the id.**

```

db.restaurants.find(
  { cuisine: "Pizza" },
  { borough: 1, name: 1, _id: 0 }
)

```



**3iii. Insert a new restaurant with an address in Philly and cuisine French.**

```

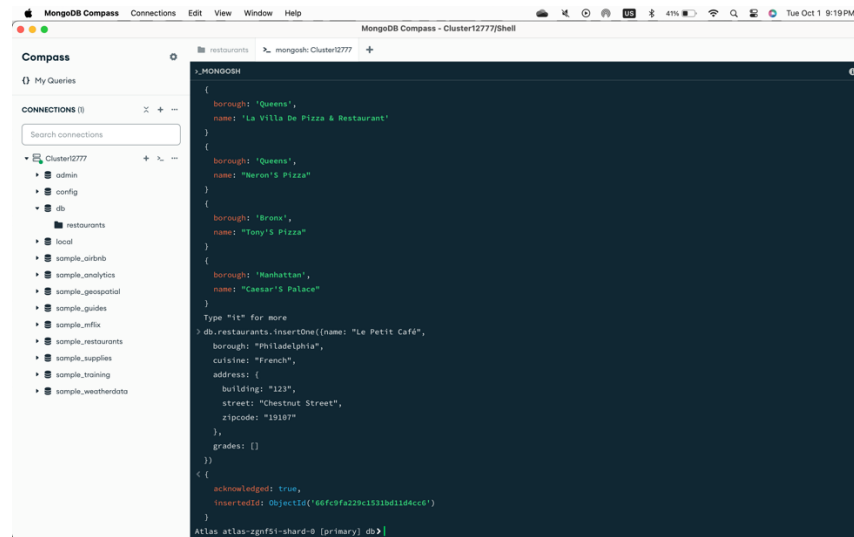
db.restaurants.insertOne({
  name: "Le Petit Café",
  borough: "Philadelphia",
  cuisine: "French",
  address: {
    building: "123",

```

```

    street: "Chestnut Street",
    zipcode: "19107"
  },
  grades: []
})

```

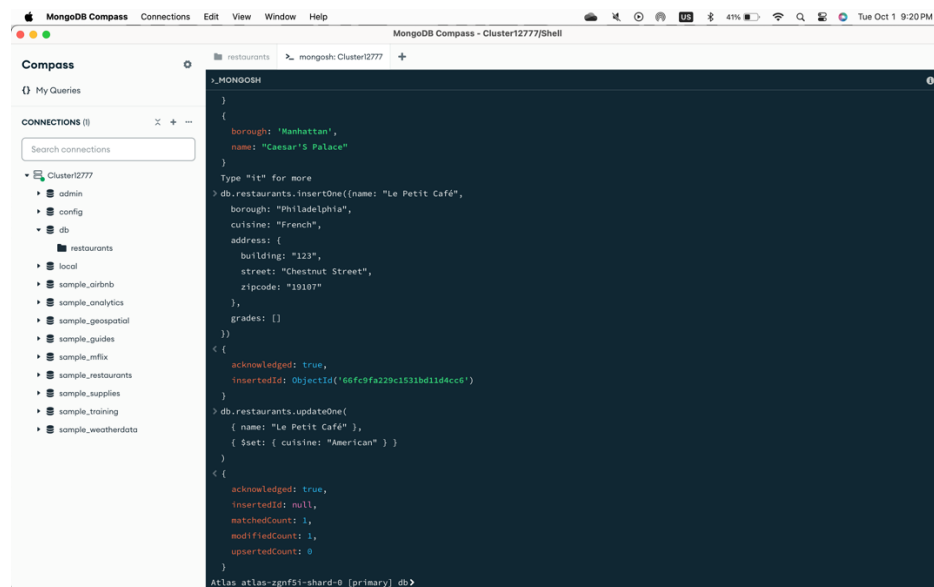


**3iv. Update your new restaurant just inserted. Set the cuisine to "American."**

```

db.restaurants.updateOne(
  { name: "Le Petit Café" },
  { $set: { cuisine: "American" } }
)

```

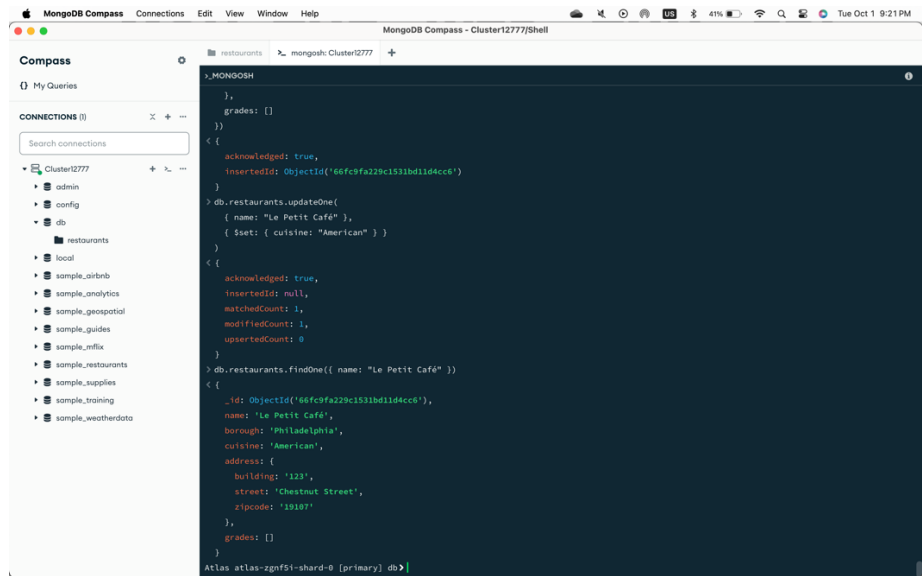


**3v. Select all the details for only the new record you created and updated.**

```

db.restaurants.findOne({ name: "Le Petit Café" })

```



### 3vi. Remove the restaurant you created.

`db.restaurants.deleteOne({ name: "Le Petit Café" })`

