Assignment 1

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PRN No-03

Subject-DBMS (NoSql Lab 1)

a)Create a database named pets in MongoDB Shell**.**

```
test> use pets
switched to db pets
```

b) Create a collection named mammals.

```
pets> db.createCollection("mammals")
{ ok: 1 }
```

c) Insert some documents to the mammals collection with fields

petid, name and species. (Using insertOne())

```
pets> db.mammals.insertOne({"petid":1,"name":"loki","species":"dog"})
{
  acknowledged: true,
  insertedId: ObjectId("6516a734dc7dc8d718f9bba0")
}
```

d) Find all the mammals.

```
pets> db.mammals.find()
[
  {
    _id: ObjectId("6516a734dc7dc8d718f9bba0"),
    petid: 1,
    name: 'loki',
    species: 'dog'
  }
]
pets>
```

e) Find all the mammals with "dog" as their species.

```
pets> db.mammals.find({"species":"dog"})
[
  {
    _id: ObjectId("6516a734dc7dc8d718f9bba0"),
    petid: 1,
    name: 'loki',
    species: 'dog'
  }
]
```

f) Create another capped collection named owner with maximum 10 documents.

```
pets> db.createCollection("owner",{capped:true, size:1253, max:10})
{ ok: 1 }
pets> |
```

g) Insert some documents to the owner collection with fields ownerid, name, city,state and contact where contact is an embedded document containing fields email and mobile. (Using insertMany()).

```
TypeError: db.owner.insertMany is not a function
pets> db.owner.insertMany([{"ownerid":1,"name":"abc","city":"mumbai","state"
:"maharashtra","contact":{"email":"abc@gmail.com","mobile":1234567890}},{"ow
nerid":2,"name":"def","city":"bangalore","state":"karnataka","contact":{"ema
il":"def@gmail.com","mobile":8767914203}},{"ownerid":3,"name":"ghi","city":"
Panaji","state":"goa","contact":{"email":"ghi@gmail.com","mobile":9881631924
}}])
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("6516aec2dc7dc8d718f9bba1"),
    '1': ObjectId("6516aec2dc7dc8d718f9bba2"),
    '2': ObjectId("6516aec2dc7dc8d718f9bba3")
  }
}
pets>
```

h) Find all owners residing in a particular city and state.

```
pets> db.owner.find({"city":"mumbai"},{"state":"maharashtra"})
[ { _id: ObjectId("6516aec2dc7dc8d718f9bba1"), state: 'maharashtra' } ]
pets>
```

i)Find a particular owner whose mobile is given.

```
pets> db.owner.find({"contact.mobile":8767914203})
[
  {
    _id: ObjectId("6516aec2dc7dc8d718f9bba2"),
    ownerid: 2,
    name: 'def',
    city: 'bangalore',
    state: 'karnataka',
    contact: { email: 'def@gmail.com', mobile: 8767914203 }
  }
]
pets>
```

j) Find owners whose email or mobile is given.

```
pets> db.owner.find({"contact.mobile":8767914203},{"contact.email":"def@gmai
l.com"})
[
  {
    _id: ObjectId("6516aec2dc7dc8d718f9bba2"),
    contact: { email: 'def@gmail.com' }
  }
]
pets>
```