PRACTICAL - 7: Working with NoSQL Databases. (MongoDB)

1. Consider the domain of an ecommerce website, opting for mongoDB as their database solution.

```
> db
ParthKukadiya
> db.createCollection("customer");
{ "ok" : 1 }
> show collections
customer
stories
```

2. Run the basic CRUD (Create, Read, Update, Delete) operations for the domain asked using the queries of your choice.

```
> db.customer.insertMany([ {name : 'parth' , surname : 'kukadiya', address : 'ahmedabad', email : '
parthkukadiya@gmail.com'} , {name : 'hina' , surname : 'joshi', address : 'ahmedabad', email : 'hin
ajoshi@gmail.com'} , {name : 'bhoomi' , surname : 'sheth', address : 'ahmedabad', email : 'bhoomis
heth@gmail.com'} , {name : 'shivangi' , surname : 'nayak', address : 'ahmedabad', email : 'shivangi
nayak@gmail.com'} , {name : 'abc' , surname : 'xyz' , address : 'ahmedabad', email : 'abcxyz@gmail.
com'} , {name : 'ab' , surname : 'cd' , address : 'ahmedabad', email : 'abcd@gmail.com'}])
{
        "acknowledged" : true,
        "insertedIds" : [
                ObjectId("60fc27968df50300ebc985c1"),
                ObjectId("60fc27968df50300ebc985c2"),
                ObjectId("60fc27968df50300ebc985c3"),
                ObjectId("60fc27968df50300ebc985c4"),
                ObjectId("60fc27968df50300ebc985c5"),
                ObjectId("60fc27968df50300ebc985c6")
        ]
}
```

```
> db.customer.find().pretty()
{
        "_id" : ObjectId("60fc27968df50300ebc985c1"),
        "name" : "parth",
        "surname" : "kukadiya",
        "address" : "ahmedabad",
        "email" : "parthkukadiya@gmail.com"
}
{
        "_id" : ObjectId("60fc27968df50300ebc985c2"),
        "name" : "hina",
        "surname" : "joshi",
        "address" : "ahmedabad",
        "email" : "hinajoshi@gmail.com"
}
{
        "_id" : ObjectId("60fc27968df50300ebc985c3"),
        "name" : "bhoomi",
        "surname" : "sheth",
        "address" : "ahmedabad",
        "email" : "bhoomisheth@gmail.com"
}
{
        "_id" : ObjectId("60fc27968df50300ebc985c4"),
        "name" : "shivangi",
        "surname" : "nayak",
        "address" : "ahmedabad",
        "email" : "shivanginayak@gmail.com"
}
{
        "_id" : ObjectId("60fc27968df50300ebc985c5"),
        "name" : "abc",
        "surname" : "xyz",
        "address" : "ahmedabad",
        "email" : "abcxyz@gmail.com"
}
{
        "_id" : ObjectId("60fc27968df50300ebc985c6"),
        "name" : "ab",
        "surname" : "cd",
        "address" : "ahmedabad",
        "email" : "abcd@gmail.com"
}
>
```

Update: -

```
> db.customer.update({'name'   : 'hina'} , {$set: {'address' : 'Delhi'}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.customer.find()
{ "_id" : ObjectId("60fc27968df50300ebc985c1"), "name" : "parth", "surname" : "kukadiya", "address"
 : "ahmedabad", "email" : "parthkukadiya@gmail.com" }
{ "_id" : ObjectId("60fc27968df50300ebc985c2"), "name" : "hina", "surname" : "joshi", "address" : "
Delhi", "email" : "hinajoshi@gmail.com" }
{ "_id" : ObjectId("60fc27968df50300ebc985c3"), "name" : "bhoomi", "surname" : "sheth", "address" :
 "ahmedabad", "email" : "bhoomisheth@gmail.com" }
{ "_id" : ObjectId("60fc27968df50300ebc985c4"), "name" : "shivangi", "surname" : "nayak", "address"
 : "ahmedabad", "email" : "shivanginayak@gmail.com" }
{ "_id" : ObjectId("60fc27968df50300ebc985c5"), "name" : "abc", "surname" : "xyz", "address" : "ahm
edabad", "email" : "abcxyz@gmail.com" }
{ "_id" : ObjectId("60fc27968df50300ebc985c6"), "name" : "ab", "surname" : "cd", "address" : "ahmed
abad", "email" : "abcd@gmail.com" }
>
```

Remove: -

```
> db.customer.remove({'name'   : 'ab'})
WriteResult({ "nRemoved" : 1 })
> db.customer.find()
{ "_id" : ObjectId("60fc27968df50300ebc985c1"), "name" : "parth", "surname" : "kukadiya", "address"
 : "ahmedabad", "email" : "parthkukadiya@gmail.com" }
{ "_id" : ObjectId("60fc27968df50300ebc985c2"), "name" : "hina", "surname" : "joshi", "address" : "
Delhi", "email" : "hinajoshi@gmail.com" }
{ "_id" : ObjectId("60fc27968df50300ebc985c3"), "name" : "bhoomi", "surname" : "sheth", "address" :
 "ahmedabad", "email" : "bhoomisheth@gmail.com" }
{ "_id" : ObjectId("60fc27968df50300ebc985c4"), "name" : "shivangi", "surname" : "nayak", "address"
 : "ahmedabad", "email" : "shivanginayak@gmail.com" }
{ "_id" : ObjectId("60fc27968df50300ebc985c5"), "name" : "abc", "surname" : "xyz", "address" : "ahm
edabad", "email" : "abcxyz@gmail.com" }
>
```

3. Run the queries of your choice which are Where Clause Equivalents of RDBMS in MongoDB.

```
> db.customer.find({'name'   : 'parth'})
{ "_id" : ObjectId("60fc27968df50300ebc985c1"), "name" : "parth", "surname" : "kukadiya", "address"
 : "ahmedabad", "email" : "parthkukadiya@gmail.com" }
>
```