1. Show existing databases.

```
> show dbs;

< DJSCE 160.00 KiB

admin 40.00 KiB

config 108.00 KiB

local 92.00 KiB

newDB 72.00 KiB

studentdb 40.00 KiB

test 216.00 KiB
```

2. Use one the database.

```
> use admin
< 'switched to db admin'
```

3. Show collections in the above database, say example: admin

```
> show collections
< system.version
```

4. Create a new collection say, Employee. (Create as Employee with last 3 digits of SAPID, eg. Employee123)

5. Insert one tuple in the collection as:

6. Insert multiple tuples in the collection as:

7. Display the contents of the collection.

```
> db.Employee123.find();
     _id: ObjectId("66038dcac78b602ec9a44675"),
     Eid: 101,
     Ename: 'Akshay',
     Eaddress: 'Mumbai',
     Emobile: 1234567890
   }
   {
     _id: ObjectId("66038dd8c78b602ec9a44676"),
     Eid: 102,
     Ename: 'Arvind',
     Eaddress: 'Mumbai',
     Emobile: 9870654321
   }
     _id: ObjectId("66038e3dc78b602ec9a44677"),
     Eid: 103,
     Ename: 'Sahil',
     Eaddress: 'Pune',
     Emobile: 8765093214
   }
   {
     _id: ObjectId("66038e3dc78b602ec9a44678"),
     Eid: 104,
     Ename: 'Pranay',
     Eaddress: 'Bangalore',
     Emobile: 74310982365
   }
```

8. Display the contents of the collection with address Pune.

```
> db.Employee123.find({ Eaddress: "Pune" });

< {
    _id: ObjectId("66038e3dc78b602ec9a44677"),
    Eid: 103,
    Ename: 'Sahil',
    Eaddress: 'Pune',
    Emobile: 8765093214
}</pre>
```

9. Update the collection to add new attribute as Esalary in all the tuples.

10. Count the entries with Eaddress as Mumbai.

```
db.Employee123.countDocuments({ Eaddress: "Mumbai" });
```

11. Display the details with Esalary greater than 150000.

12. Display the details with Esalary lesser than 250000.

```
db.Employee123.find({ Esalary: { $1t: 250000 } });
```

13. Display the details with Esalary greater than or equal to 150000.

```
db.Employee123.find({ Esalary: { $gte: 150000 } });

{
        id: ObjectId("66038dcac78b602ec9a44675"),
        Eid: 101,
        Ename: 'Akshay',
        Eaddress: 'Mumbai',
        Emobile: 1234567890,
        Esalary: 250000
}

{
        id: ObjectId("66038dd8c78b602ec9a44676"),
        Eid: 102,
        Ename: 'Arvind',
        Eaddress: 'Mumbai',
        Emobile: 9870654321,
        Esalary: 250000
}
```

14. Display the details with Esalary lesser than or equal to 250000.

15. Display the details where Eaddress is not Mumbai.

```
> db.Employee123.find({ Eaddress: { $ne: "Mumbai" } });

< {
    _id: ObjectId("66038e3dc78b602ec9a44677"),
    Eid: 103,
    Ename: 'Sahil',
    Eaddress: 'Pune',
    Emobile: 8765093214
}

{
    _id: ObjectId("66038e3dc78b602ec9a44678"),
    Eid: 104,
    Ename: 'Pranay',
    Eaddress: 'Bangalore',
    Emobile: 74310982365
}</pre>
```

16. Perform aggregate functions like min(), max(), avg(), sum().

```
> db.Employee123.aggregate([
     { $group: { id: null, minSalary: { $min: "$Esalary" } } }
 1);
< {
     _id: null,
     minSalary: 250000
   }
> db.Employee123.aggregate([
     { $group: { id: null, maxSalary: { $max: "$Esalary" } } }
 1);
< {
     _id: null,
     maxSalary: 250000
> db.Employee123.aggregate([
     { $group: { id: null, avgSalary: { $avg: "$Esalary" } } }
 1);
< {
     _id: null,
     avgSalary: 250000
> db.Employee123.aggregate([
     { $group: { id: null, totalSalary: { $sum: "$Esalary" } } }
 1);
< {
     _id: null,
     totalSalary: 500000
```