LAB-8 :

Part – A :

1. Create a new database named “Darshan”.

➔ use Darshan

2. Create another new database named “DIET”.

➔ use DIET

3. List all databases.

➔ show databases

4. Check the current database. (db -> returns databaseName)

➔ use DIET

➔ db

5. Drop “DIET” database.

➔ use DIET

➔ db.dropDatabase()

6. Create a collection named “Student” in the “Darshan” database.

➔ use Darshan

➔ db.createCellection(“Student”)

7. Create a collection named “Department” in the “Darshan” database.

➔ db.createCollection(“Department”)

8. List all collections in the “Darshan” database.

➔ show collections

9. Insert a single document using insertOne into “Department” collection. (Dname:’CE’, HOD:’Patel’)

➔ db.Department.insertOne({ Dname : ‘CE’ , HOD : ‘Patel’})

10. Insert two document using insertMany into “Department” collection. (Dname:’IT’ and Dname:’ICT’)

➔ db.Department.insertMany([{Dname:’IT’},{Dname:’ICT’}])

11. Drop a collection named “Department” from the “Darshan” database.

➔ db.Department.drop()

12. Insert a single document using insertOne into “Student” collection. (Fields are Name, City, Branch, Semester, Age) Insert your own data.

➔ db.Student.insertOne({Name : ’Krisha’ , City: ’Rajkot’ , Branch : ‘CSE’ ,
Semester : 4 , Age : 18 })

13. Insert three documents using insertMany into “Student” collection. (Fields are Name, City, Branch, Semester, Age) Insert your three friend’s data.

➔ db.Student.insertOne([{Name : ‘Stu1’ , City : ‘City1 , Branch : ‘Branch1’ , Semester : 1 , Age : 11} , {Name : ‘Stu2’ , City : ‘City2’ , Branch : ‘Branch2’ , Semester : 2 , Age : 12} , {Name : ‘Stu3’ , City : ‘City3’ , Branch : ‘Branch3’ , Semester : 3 , Age : 13}])

14. Check whether “Student” collection exists or not.

➔ db.getCollectionNames().includes(“Student”)

15. Check the stats of “Student” collection.

➔ db.Student.stats()

16. Drop the “Student” collection.

➔ db.Student.drop()

17. Create a collection named “Deposit”.

➔ db.createCollection(“Deposit”)

18. Insert following data in to “Deposit” collection.

➔ db.Deposit.insertMany([

{ ACTNO: 101, CNAME: 'ANIL', BNAME: 'VRCE', AMOUNT: 1000.00, CITY: 'RAJKOT' },

{ ACTNO: 102, CNAME: 'SUNIL', BNAME: 'AJNI', AMOUNT: 5000.00, CITY: 'SURAT' },

{ ACTNO: 103, CNAME: 'MEHUL', BNAME: 'KAROLBAGH', AMOUNT: 3500.00, CITY: 'BARODA' },

{ ACTNO: 104, CNAME: 'MADHURI', BNAME: 'CHANDI', AMOUNT: 1200.00, CITY: 'AHMEDABAD' },

{ ACTNO: 105, CNAME: 'PRMOD', BNAME: 'M.G. ROAD', AMOUNT: 3000.00, CITY: 'SURAT' },

{ ACTNO: 106, CNAME: 'SANDIP', BNAME: 'ANDHERI', AMOUNT: 2000.00, CITY: 'RAJKOT' },

{ ACTNO: 107, CNAME: 'SHIVANI', BNAME: 'VIRAR', AMOUNT: 1000.00, CITY: 'SURAT' },

{ ACTNO: 108, CNAME: 'KRANTI', BNAME: 'NEHRU PLACE', AMOUNT: 5000.00, CITY: 'RAJKOT' }

])

19. Display all the documents of “Deposit” collection.

➔ db.Deposit.find()

20. Drop the “Deposit” collection.

➔ db.Deposit.drop()

Part – B :

1. Create a new database named “Computer”.

➔ use Computer

2. Create a collection named “Faculty” in the “Computer” database.

➔ db.createCollection(“Faculty”)

3. Insert a below document using insertOne into “Faculty” collection.

➔ db.Faculty.insertOne({ FID : 1 , NAME : ‘ANIL’ , BNAME : ‘CE’ , SALARY : 10000 , JDATE : ‘1995-03-01’ })

4. Insert below documents using insertMany into “Faculty” collection.

➔ db.Faculty.insertMany([

{ FID: 2, FNAME: 'SUNIL', BNAME: 'CE', SALARY: 50000, JDATE: ‘1996-01-04’},

{ FID: 3, FNAME: 'MEHUL', BNAME: 'IT', SALARY: 35000, JDATE: '1995-11-17' },

{ FID: 4, FNAME: 'MADHURI', BNAME: 'IT', SALARY: 12000, JDATE: '1995-12-17' },

{ FID: 5, FNAME: 'PRMOD', BNAME: 'CE', SALARY: 30000, JDATE: '1996-03-27' },

{ FID: 6, FNAME: 'SANDIP', BNAME: 'CE', SALARY: 20000, JDATE: '1996-03-31' },

{ FID: 7, FNAME: 'SHIVANI', BNAME: 'CE', SALARY: 10000, JDATE: '1995-09-05' },

{ FID: 8, FNAME: 'KRANTI', BNAME: 'IT', SALARY: 50000, JDATE: '1995-07-02' }

])

5. Display all the documents of “Faculty” collection.

➔ db.Faculty.find()

6. Drop the “Faculty” collection.

➔ db.Faculty.drop()

7. Drop the “Computer” database.

➔ db.dropDatabase()

Part – C : (Perform following operation using UI)

1. Create a new database named “Computer”.

➔ use Computer

2. Create a collection named “Faculty” in the “Computer” database.

➔ db.createCollection(“Faculty”)

3. Insert a below documents into “Faculty” collection.

➔ db.Faculty.insertMany([
{FID : 1 , FNAME : ‘ANIL’ , BNAME : ‘CE’ , SALARY : 10000 , JDATE : ‘1995-03-01’} ,
{FID : 2 , FNAME : ‘SUNIL’ , BNAME : ‘CE’ , SALARY : 50000 , JDATE : ‘1996-01-04’} ,
{FID : 3 , FNAME : ‘MEHUL’ , BNAME : ‘IT’ , SALARY : 35000 , JDATE : ‘1995-11-17’} ,
{FID : 4 , FNAME : ‘MADHURI’ , BNAME : ‘IT’ , SALARY : 12000 , JDATE : ‘1995-12-17’} ,
{FID : 5 , FNAME : ‘PRAMOD’ , BNAME : ‘CE’ , SALARY : 30000 , JDATE : ‘1996-03-27’} ,
{FID : 6 , FNAME : ‘SUNDIP’ , BNAME : ‘CE’ , SALARY : 20000 , JDATE : ‘1996-03-31’} ,
{FID : 7 , FNAME : ‘SHIVANI’ , BNAME : ‘CE’ , SALARY : 10000 , JDATE : ‘1995-09-05’} ,
{FID : 8 , FNAME : ‘KRANTI’ , BNAME : ‘IT’ , SALARY : 50000 , JDATE : ‘1995-07-02’}
])

4. Display all the documents of “Faculty” collection.

➔ db.Faculty.find()

5. Drop the “Faculty” collection.

➔ db.Faculty.drop()

6. Drop the “Computer” database.

➔ db.dropDatabase()