Semester-IX

Essentials of Big Data Analytics

Practical List: 01
Problem Definition

Create a database named "bmiit2024".
After creating database, create the following collections with the given columns and insert given documents in it:

Students(enro, fname, lname, city, gender, contactno, dob)

After the creation of all the collections, insert 10 documents.

enro	Fname	lname	City	gender	contactno	dob
4	Isha	Motiyani	Surat	F	9874563210	12/09/2000
102	Anish	Patel	Valsad	M	9632587410	06/01/2001
103	Kalp	Shah	Baroda	M	9630125874	13/10/2000
104	Yash	Bhakta	Mumbai	M	9987452103	08/05/2001
84	Aparana	Mukherjee	Surat	F	8563247890	26/06/2001
8	Arjun	Poduval	Vapi	M	8965230147	01/05/2001
105	Riya	Agrawal	Navsari	F	6985321470	02/09/2000
79	Monis	Khan	Bardoli	M	7895231053	23/11/2000
106	Abhishek	Choksi	Surat	M	6985327410	18/07/2001
49	Om	Patel	Valsad	M	9985632100	15/05/2001

Perform the following operation on the collection:
1. Display all the documents of the collection.
2. Show only the first name and last name of all the students.
3. Display the list of unique cities of the students.
4. Retrieve the student's date of birth along with the student first name and last name.
5. Get all the details of students whose city is "Surat".
6. Arrange all the documents of students in ascending order using "enro" number.
7. Show the details of just the first five documents of the students.
8. Display only the details of last three documents of the students.
9. View the list of male students whose city is "Valsad".
10. Display all the documents in descending order.
11. Display the list of first four students whose city is "Valsad" in order.
12. Update the contact number and date of birth of "Monis" to "6852987530" and "06/01/1999" respectively.
13. Find only the date of birth of "Om".
14. Insert the document (100, Rohit, Mehera, Mumbai, 24/03/2003) in the collection.
15. Display the list of male students whose last name is "Patel".
16. Insert the document (35, Priyank, Mistry, Anand, 18/06/2000, 9000800001) in the collection.
17. Show all the details of student whose enrollment number is "102".
18. Display the list of students whose gender in "NULL" or 0.
19. Complete all details of students, if any document of student the document is

incomplete.

20. Remove all the details of students whose city is "Vapi".
21. Display the next five students after skipping first five which are in the collection.
22. List the names of all the students having 'a' as the second letter in their names.
23. List the clients who stay in a city, whose first letter is 'M'.
24. Count number of students in the collection.
25. Make the collection empty.