CS 207: Applied Database Practicum
In-Class Activity 9: Introduction to NoSQL, 8th October, 2018

In this activity, you will be working in MongoDB.

Q1. Open MongoDB and perform the following action:
- i) Create a database *CS207*
- ii) Create a collection *Students* inside the database *CS207* with the attributes given below and Insert all your group member details into the collection *students*:

Attribute Name
ROLL_NO
Name
Age
Semester
GPA (MongoDBArray): CGPA, SGPA,UOM(Unit of measurement)
Hometown

Use GPA as default UOM in the MongoDBArray and enter your current semester.

- iii) Display all the documents inside the collection *students*
- iv) Display only those documents where the CGPA is greater than 8
- v) Update **Hometown** to *Mandi* and **uom** to *GP* for those document whose SGPA is less than 8.5
- vi) Delete the first document whose semester value is 3

BONUS: ONLY if you have done the above steps, then you can try this bonus for an extra point.

Q2. Using Bulkwrite (***In Bulkwrite all the operations are performed in a bulk***) perform the following action:

i) Insert into students the follwoing 2 documents

Attribute Name	Value	Value
ROLL_NO	B15033	B15053
Name	John	Harry
Age	23	29
Semester	5	8
GPA (MongoDBArray): CGPA, SGPA,UOM	CGPA: 7.9, SGPA: 7.95, uom: "Grade point"	CGPA: 9.9, SGPA: 9.95, uom: "Grade point"
Hometown	Kanpur	Lucknow

ii) Change the *Hometown value to Delhi* for **Roll_No: B15053**