Roll No.: _

Amrita Vishwa Vidyapeetham

Amrita School of Engineering, Coimbatore

B.Tech. Degree Examinations – November/December 2021

Eighth Semester(Fast Phase)

Computer Science and Engineering

15CSE334 Big Data Analytics - Lab Assessment

Duration: One hour Maximum Marks: 24

Course Outcomes (COs):

CO	Course Outcomes
CO01	**Understand** fundamental concepts of Big Data and its technologies
CO02	**Apply** concepts of Map Reduce framework for optimization.
CO03	**Analyze** appropriate No SQL database techniques for storing and processing large volumes of structured and unstructured data. .
CO04	**Apply** data analytics solutions using Hadoop ecosystems .
CO05	**Explore** tools for machine learning and reporting .

05/1/2022

Evaluation Rubrics

SNo.	Checkpoints	Marks Allotted
	Hive	
1a)	Loading the dataset and displaying	2
1b) - f)	Queries	5*2 = 10
	MongoDB	
2a)	Loading the Data and Display	2
2b) - f)	Queries	5*2 = 10

SET 1

1. Write Queries in HIVE for **HOSTEL** table given below.

a) Create the table and load the data [12][C004][BTL4]

RoomNo	NoS	Floor	Name
1	4	1	ABC
2	4	1	ABC
3	2	2	ABC
4	2	1	XYZ
5	2	2	XYZ
6	2	2	XYZ

b) Display the total number of students in each hostel

c)Display total number of rooms in each hostel that has less than 3 students

d) Display all hostels that have their name ending with 'C'

e) Display names of hostels that have more than 3 floors

f) Create hostel table using dynamic partition, partition the data using floor variable and insert the data into the table

2. Write Queries in MONGODB for **subject table** given below. [12][CO03][BTL4]

Cid	Name	Dept	Nos	Credit	Lab
1	C++	CSE	60	3	YES
2	OS	CSE	40	3	NO
3	PHY	SCI	35	4	YES
4	CHE	SCI	40	4	YES
5	BIGDATA	CSE	60	4	YES
6	SPM	CSE	60	3	NO
7	MAT	SCI	63	4	NO

a) Create the table and insert records into the table

b) Find the total number of students in each dept.

c) Find courses in CSE that have strength less than 60.

d) Count the total number of 3 credit courses in the table

e) Update record with name CHE, change credit value to 3.

f) List two courses that have minimum no of students.