Department of Computer Engineering Academic Term: July-November 2023

Rubrics for Lab Experiments

Class : B.E. Computer Subject Name :BDA

Semester: VII Subject Code:

Practical No:	6	
Title:	Write a command to perform insert, create, update and delete Cassandra (NoSQL) database.	
Date of Performance:	17-8-23	
Roll No:	9427	
Name of the Student:	Name of the Student: Atharva Prashant Pawar	

Evaluation:

Performance Indicator	Below average	Average	Good	Excellent	Marks
On time Submission (2)	Not submitted(0)	Submitted after deadline (1)	Early or on time submission(2)	-	
Test cases and output (4)	Incorrect output (1)	The expected output is verified only a for few test cases (2)	The expected output is Verified for all test cases but is not presentable (3)	Expected output is obtained for all test cases. Presentable and easy to follow (4)	
Coding efficiency (2)	The code is not structured at all (0)	The code is structured but not efficient (1)	The code is structured and efficient. (2)	-	
Knowledge(2)	Basic concepts not clear (0)	Understood the basic concepts (1)	Could explain the concept with suitable example (1.5)	Could relate the theory with real world application(2)	
Total					

Aim: Write a command to perform insert, create, update and delete Cassandra (NoSQL) database

- Understand NoSQL databases architecture
- Understand commands to create database using cassendra
- Understand commands to insaert data using cassendra
- Understand commands to update data using cassendra
- Understand commands to delete data using cassendra Steps for creating database:

Using Docker run Cassandra commands:

Commands for simple database creation:

- 1. Sudo apt install docker.io
- 2.sudo docker pull Cassandra:latest
- 3. sudo docker run -d --name cassandra-node -p 9042:9042 cassandra

(note: 9042 port reserverd for Cassandra)

- 4.sudo docker exec -it cassandra-node bash
- 5.cqlsh (note: cqlsh->Cassandra query language shell)
- 6.create keyspace test with replication={'class': 'SimpleStrategy',

'replication_factor':1};

(note:keyspace means database,here name of database is test)

7.use test;

- 8. create table student(s_id int primary key,s_name text,s_city text);
- 9. insert into student(s_id,s_name,s_city)values(1,'ABCD','Mumbai');
- 9. insert into student(s_id,s_name,s_city)values(2,'PQRS','Punei');
- 10.select * from student;

Create and Insert Operation:

Update Operation:

Delete Operation:

	Athania Poashoomt Pauxer (9427) BE comps- A
	BDA Postlap-6
A 4	What is map & what is restuces in Hadoop
=>	The MapPeducer programming model is divided into a phones.
0	map Phase:
	It takes a set of 1/p data & produces a set of
	Palance dia ta Lauf valle Drug.
	trapper function is sep responsible for reading the supply of data applitting Printo key-value pairs & applying the data applying the said Dair
	a user defined transformation to each pair.
(2	Reduce Phase:
	Takes of from map phase & groups the key / vale
	points by key. The orducer function is then responsition for combining the values associated with each key
	fore combining the viewes associated
	l producing es times ofp.
Q2.	mention what deemons nun on a master node &
	slave nodes?
⇒·	Master Node: Name Node, secondary Namewoole,
	Job tracker, Resource manager.
	Slave Node: Data Node, Node Manager,
	Task Trackers,
	FOR EDUCATIONAL USE