BDA LAB REPORT

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USN – 1BM17CS095
BATCH – B3

Q1.)

Perform the following DB operations using MongoDB.

- A. Create a database "Student" with the following attributes Rollno, Age, ContactNo, Email-Id.
- B. Insert appropriate values.
- C. Write query to update Email-Id of a student with rollno 10.
- D. Replace the student name from "ABC" to "FEM" of rollno 11.
- E. Export the created table into local file system.
- F. Drop the table.
- G. Import a given csv dataset from local file system into mongodb collection.

CODE - 1

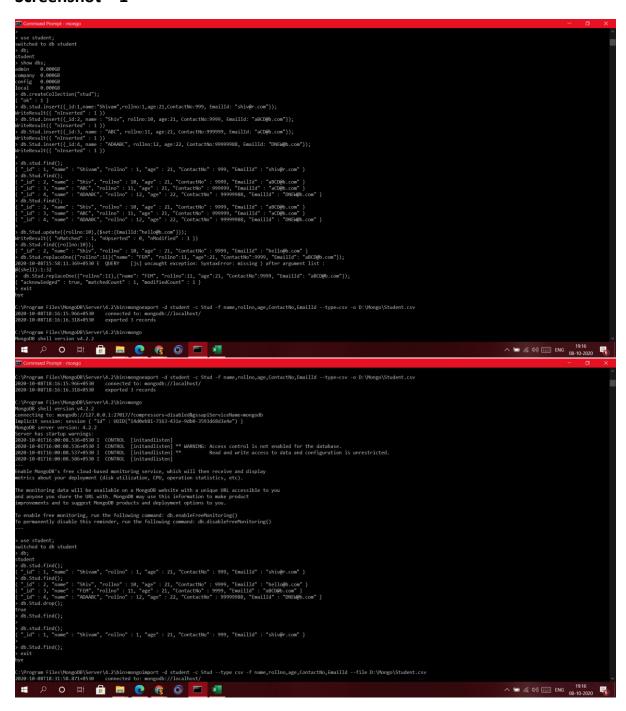
```
> use student;
> db;
> show dbs;

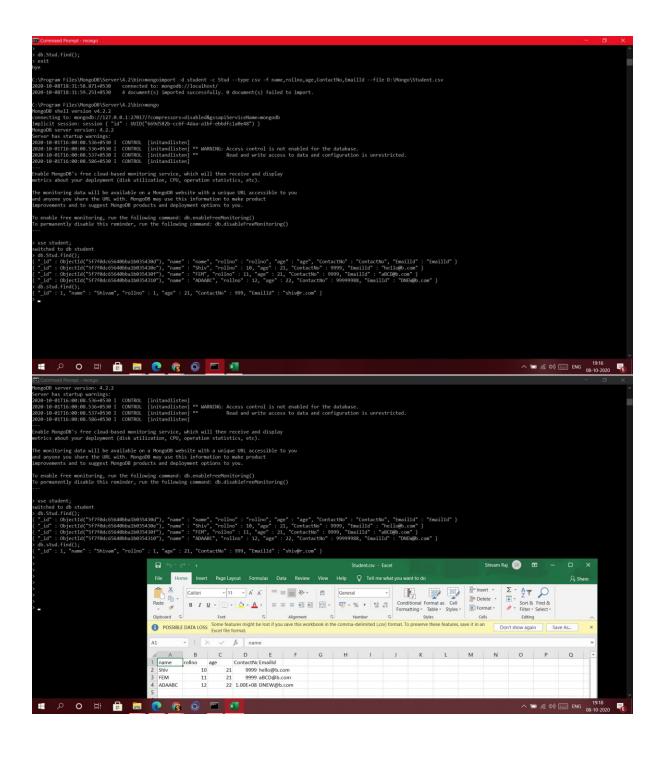
> db.createCollection("Stud");
> db.Stud.insert({_id:1, name : "Shivam", rollno:1, age:21, ContactNo:999, EmailId: "shiv@r.com"});
```

```
> db.Stud.insert({_id:2, name : "Shiv", rollno:10, age:21, ContactNo:9999, EmailId:
"aBCD@b.com"});
> db.Stud.insert({_id:3, name : "ABC", rollno:11, age:21, ContactNo:999999, EmailId:
"aCD@b.com"});
> db.Stud.insert({ id:4, name : "ADAABC", rollno:12, age:22, ContactNo:99999988, EmailId:
"DNEW@b.com"});
> db.Stud.find();
> db.Stud.update({rollno:10},{$set:{EmailId:"hello@b.com"}});
> db.Stud.find({rollno:10});
> db.Stud.replaceOne({"rollno":11},{"name": "FEM", "rollno":11, "age":21,
"ContactNo":9999, "EmailId": "aBCD@b.com"});
> exit
mongoexport -d student -c Stud -f name,rollno,age,ContactNo,EmailId --type=csv -o
F:\Mongo\Student.csv
> use student;
> db;
> db.Stud.drop();
> db.Stud.find();
> exit
mongoimport -d student -c Stud --type csv -f name,rollno,age,ContactNo,EmailId --file
F:\Mongo\Student.csv
> use student;
> db.Stud.find();
```

Write-up-1

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	Page
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	db. 3 tad. insert (2 id:1, nome: "3 tivom",
	quolluo: 1, age: 21, contact no: 9999,
	Email Id: 11 8 himon @ 9. com "9);
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ka	"hello@3.com" 99),
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40000	db. stud. Aind();
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Allestone	mongoinfort -d Student -C Stud -f type CSV-f name, rollno, age, ContactNo, Email Id tile D: [mongo] Student: CSV
	name, rolling, age, Contact No, Email Id tile D: mongo
TOOL +	Student cgv
	dlo. stud- find ();





Q2.)

Perform the following DB operations using MongoDB.

- A. Create a collection by name Customers with the following attributes. Cust_id, Acc_Bal, Acc_Type.
- B. Insert at least 5 values into the table.
- C. Write a query to display those records whose total account balance is greater than 1200 of account type 'Z' for each customer id.
- D. Determine Minimum and Maximum account balance for each customer id.
- E. Export the created collection into local file system
- F. Drop the table.
- G. Import a given csv dataset from local file system into mongodb collection.

CODE - 2

```
_id: "$cust_id",
... ...
          min_bal: {$min: "$Acc_bal"},
... ...
          max_bal: {$max: "$Acc_bal"}
.....}
......}
... ... ]);
> db.Customer.find();
> exit
mongoexport -d mynew -c Customer -f cust_id,Acc_bal,Acc_type --type=csv -o
F:\Mongo\Customer.csv
mongo
> use mynew;
> db.Customer.drop();
> db.Customer.find();
> exit
mongoimport -d mynew -c Customer --type csv -f cust_id,Acc_bal,Acc_type --file
F:\Mongo\Customer.csv
mongo
> use mynew;
> db.Customer.find();
```

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	use my new;
	olb,
	db. create Collection ("Customer");
	db. Customer. insert (& cust_id: 1, Acc_bal: 1500,
	Acc-tule: Z/4):
	con caporito fina ().
	db. Customer. find (2 Acc - bal: 2 & gt: 12004,
	Aca_ type: "Z" 4);
	db. Customer. aggregate (E
-	
5,1	\$ group: 2
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-Chashes	min-bal; & f min: " face-bal"9,
action	max_bal: 2 & max: " & Acc_bal"4
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	db. Customer. dsof()
	Olb. Customer. find()
	and the state of t
	mongo import -d mynew -c austomer type cov - t west id, Acc-bal, Acc-type file D: mongo Customer.csv
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	db. lastomer. find O;
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2019 Microsoft Corporation. All rights reserved.
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008 chell version v4. 2.2

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icit session: session ( "id": UUID("9fcdeSc5-5643-4afe-9b45-261b64e99bfe") )

008 server version: 4. 2.2

er has startup warnings:

-10-01116:008-08.336-0938 I CONTROL [initandlisten] ** MARNING: Access control is not enabled for the database.

-10-01116:008-08.3709438 I CONTROL [initandlisten] ** MARNING: Read and write access to data and configuration is unrestricted.

-10-01116:008-08.586-0938 I CONTROL [initandlisten]
         able MongoDB's free cloud-based monitoring service, which will then receive and display trics about your deployment (disk utilization, CPU, operation statistics, etc).
       e monitoring data will be available on a MongoOB website with a unique URL accessible to you
d anyone you share the URL with. MongoOB may use this information to make product
provements and to suggest MongoOB products and deployment options to you.
         enable free monitoring, run the following command: db.enableFreeMonitoring() permanently disable this reminder, run the following command: db.disableFreeMonitoring()
               # db;
# conces
## conces
#
tudent 0.400000

th.createGollection("Customer");

"ok": 1 }

db.createGollection("Gust_id:1,Acc_bal:2500,Acc_type:72"));

riteResult(("Ainserted": 1 ))

db.Customer.insert((cust_id:2,Acc_bal:3000,Acc_type:74"));

riteResult(("Ainserted": 1 ))

db.Customer.insert((cust_id:3,Acc_bal:200,Acc_type:74"));

riteResult(("Ainserted": 1 ))

db.Customer.insert((cust_id:3,Acc_bal:2400,Acc_type:74"));

riteResult(("Ainserted": 1 ))

db.Customer.insert((cust_id:4,Acc_bal:2200,Acc_type:72"));

riteResult(("Ainserted": 1 ))

db.Customer.insert((cust_id:4,Acc_bal:2200,Acc_type:72"));

riteResult(("Ainserted": 1 ))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ^ ■ (6, 41) = ENG 20:28
08-10-2020 3
       db.Customer.aggregate([
                                   _id: "$cust_id",
min_bal: {$min: "$Acc_bal"},
max_bal: {$max: "$Acc_bal"}
                                                 mem.find():

(hip-ctd(*577731)cha608fe9f85504c5*), "custid" 1, "Acc_bal" 2590, "Acc_type" : "7"

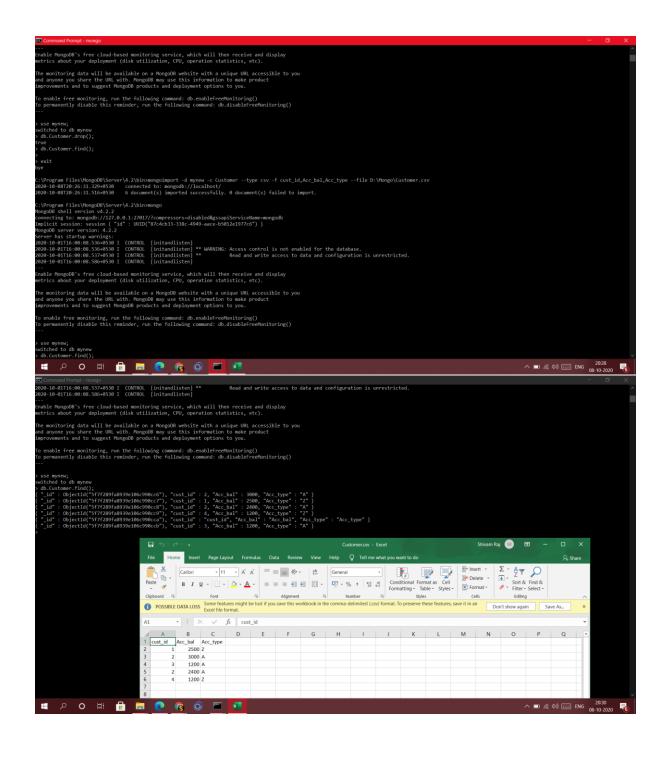
(bip-ctd(*57773350a608fe9f85504c5*), "custid" 1, "Acc_bal" 3800, "Acc_type" : "A"

(bip-ctd(*57773350a608fe9f85504c7), "custid" 1, "Acc_bal 2800, "Acc_type" : "A"

(bip-ctd(*57734660a608fe9f85504c7), "custid" 1, "Acc_bal 1200, "Acc_type" : "A"

(bip-ctd(*5773660a608fe9f85504c9), "custid" 2, "Acc_bal 2400, "Acc_type" : "A"

(bip-ctd(*577360a608fe9f85504c9), "custid" 1, "Acc_bal 1200, "Acc_type" : "A"
     PyProgram files/WenpodWiSerper/A.7bin/sengo
mepodW shell version v4.2.2
mepodw server menodw./1272.0.0.1.72017/compressors=disabledMgssapiServiceName=mongodb
mpdictare version: 4.2.2
mpdictare version: 4.2.2
version startup senrings:
22 erver has startup senrings:
220-10-0110-600:08.3560-0530 I CONTROL [initandlisten] ** MARNING: Access control is not enabled for the database.
220-10-010110-600:08.5760-053 I CONTROL [initandlisten] **
Read and write access to data and configuration is unrestricted.
220-10-01110-600:08.5360-0530 I CONTROL [initandlisten]
```



Perform the following DB operations using Cassandra.

- A. Create a keyspace by name Employee
- B. Create a column family by name Employee-Info with attributes Emp_Id Primary Key, Emp_Name, Designation, Date_of_Joining, Salary, Dept_Name.
- C. Insert the values into the table in batch
- D. Update Employee name and Department of Emp-Id 121.
- E. Sort the details of Employee records based on salary.
- F. Alter the schema of the table Employee_Info to add a column Projects which stores a set of Projects done by the corresponding Employee.
- G. Update the altered table to add project names.
- H. Create a TTL of 15 seconds to display the values of Employees.

CODE - 3

```
cqlsh> CREATE KEYSPACE Employees WITH replication = {'class':'SimpleStrategy','replication_factor':3};
cqlsh> use employees;
cqlsh:employees> CREATE COLUMNFAMILY employee_info(Emp_id INT PRIMARY KEY,
Emp_name VARCHAR, Designation VARCHAR, Date_of_joining VARCHAR, Salary FLOAT,
Dept_name VARCHAR);
```

cqlsh:employees> BEGIN BATCH INSERT INTO employee_info (emp_id , emp_name , designation , date_of_joining , salary , dept_name) values (119,'Shivam','CEO','01/06/2020',10000, 'IT');

... INSERT INTO employee_info (emp_id , emp_name , designation , date_of_joining , salary , dept_name) values (120,'Shivam Raj', 'CFO','01/01/2020',5000,'Finance');

... INSERT INTO employee_info (emp_id , emp_name , designation , date_of_joining , salary , dept_name) values (121,'Shiv', 'HR head','01/04/2020',4000,'SALES');

... INSERT INTO employee_info (emp_id , emp_name , designation , date_of_joining , salary , dept_name) values (122,'Raj','CTO','01/06/2020',10000, 'SALES'); APPLY BATCH;

cqlsh:employees> SELECT * FROM employee_info;

cqlsh:employees> UPDATE employee_info SET emp_name = 'Shiva',dept_name = 'IT' WHERE emp_id = 121;

cqlsh:employees> SELECT * FROM employee_info;

cqlsh:employees> ALTER TABLE employee info ADD PROJECT SET<VARCHAR>;

cqlsh:employees> UPDATE employee_info SET project=project+{'Covid-19','BDA Analysis'} WHERE emp_id=122;

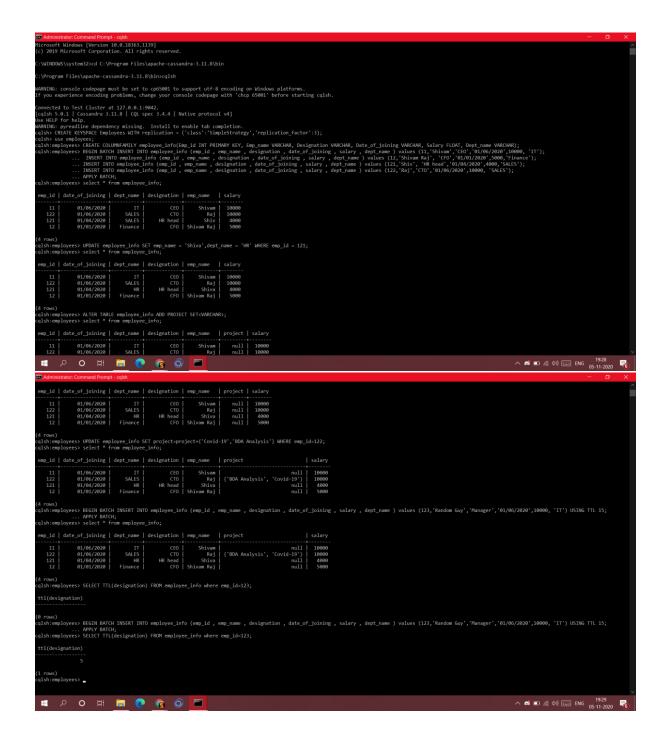
cqlsh:employees> INSERT INTO employee_info (emp_id , emp_name , designation , date_of_joining , salary , dept_name) values (123, 'Random Guy', 'Manager', '01/06/2020', 10000, 'IT') USING TTL 15;

cqlsh:employees> SELECT TTL(designation) FROM employee_info where emp_id=123;

cqlsh:employees> SELECT * FROM employee_info;

cqlsh:employees> SELECT TTL(designation) FROM employee_info where emp_id=123;

Shiram Raj BDA Lab Elassmate 1BM17C3095 B3 Lab - 6 (I) > calsh CREATE KEYSPACE Employees WITH suffication = 2' class': Simple Strategy', replication - tactor'; 34; use employees; CREATE COLUMNFAMILY employee info (Emp-id INT PRIMARY KEY, Emp-nome VARCHAR, Designation VARCHAR, Date- of - joining VARCHAR, 3 along FLOAT , Dept_nome VARCHAR); BELIN BATCH INSERTINTO employee_info (empid, emp-nome, designation, date-of-joining, Salary, dept_nome) values (11, shirom; 'CEO', '01/06/2020', 10000, 'IT'); ... APPLY BATCH: Select of from employee info; UPDATE employee_info SET emp_nome = 'Shiva', dept_name = 'HR' WHERE emp_id = 121; ALTER TABLE employee_info ADD PROJECT SET < VARLHAR>; COVID-19', BDA malysis'S WHERE emp-id=122; Select # from employee_info BEGIN BATCH INSERT INTO employee into (empid, emp-name, designation, date of - joining, salary, dept-name) values (123, 'Rondom 4 my', 'monager', '01/66/2020', 10000, 'IT') USING TIC 15; ... APPLY BATCH; SELECT TTL (designation) FROM employee info where emp-id=123;



Q4.)

Perform the following DB operations using Cassandra.

- A. Create a keyspace by name Library.
- B. Create a column family by name Library-Info with attributes Stud_Id Primary Key, Counter_value of type Counter, Stud_Name, Book-Name, Book-Id, Date of issue.
- C. Insert the values into the table in batch.
- D. Display the details of the table created and increase the value of the counter.
- E. Write a query to show that a student with id 112 has taken a book "BDA" 2 times.
- F. Export the created column to a csv file.
- G. Import a given csv dataset from local file system into Cassandra column family

CODE - 4

```
cqlsh> CREATE KEYSPACE Library WITH replication = {'class':'SimpleStrategy','replication_factor':3};

cqlsh> use Library;

cqlsh:library> CREATE COLUMNFAMILY library_info(stud_id int, counter_value counter, stud_name VARCHAR, book_name VARCHAR, book_id INT, DOI VARCHAR, PRIMARY KEY(stud_id,stud_name,book_name,book_id,doi));

cqlsh:library> UPDATE library_info set counter_value=counter_value+1 where stud_id=112 and stud_name='Shivam' and book_name='Vedas' and book_id=1 and doi='01/01/2020';

cqlsh:library> UPDATE library_info set counter_value=counter_value+1 where stud_id=112 and stud_name='Shivam' and book_name='ved' and book_id=1 and doi='01/01/2020';

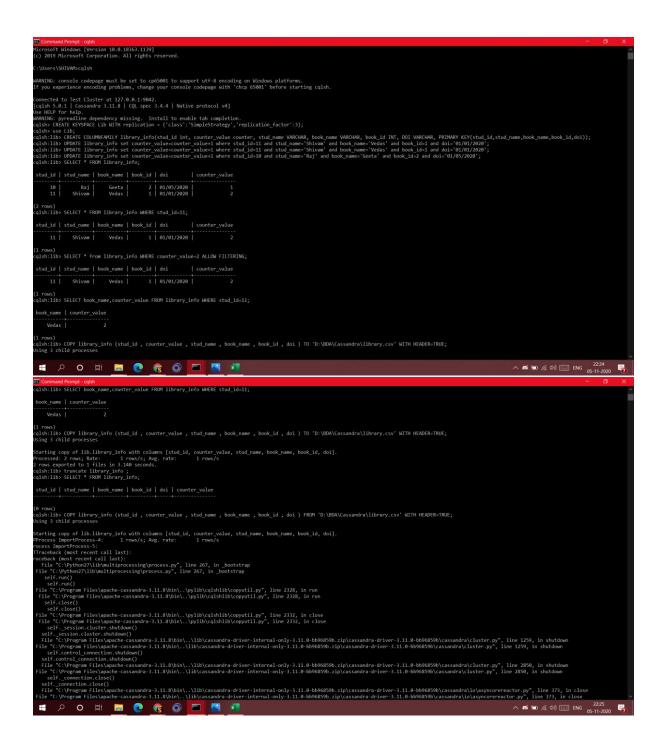
cqlsh:library> UPDATE library_info set counter_value=counter_value+1 where stud_id=113 and stud_name='Raj' and book_name='Geeta' and book_id=2 and doi='01/05/2020';

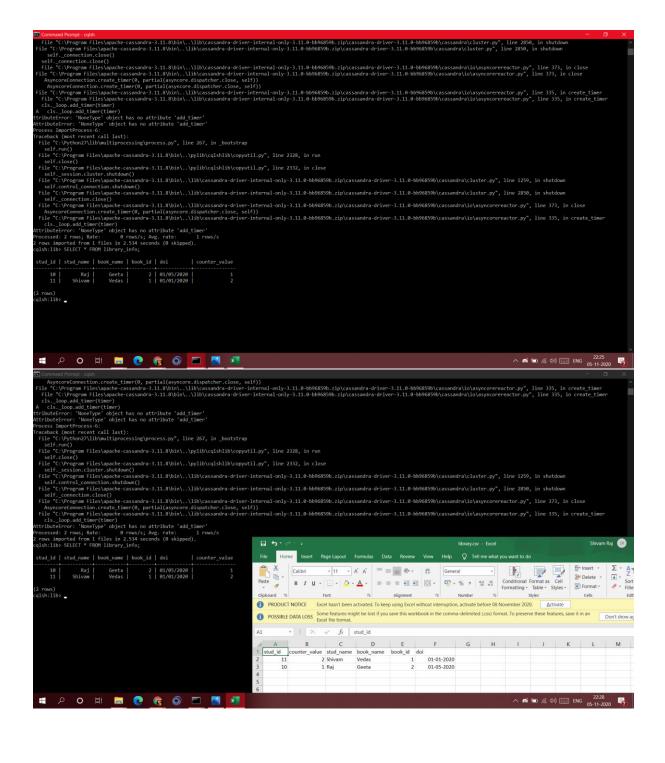
cqlsh:library> SELECT * FROM library_info;

cqlsh:library> SELECT * FROM library_info WHERE stud_id=112;
```

```
cqlsh:library> SELECT book_name,counter_value FROM library_info WHERE stud_id=112; cqlsh:library> COPY library_info (stud_id , counter_value , stud_name , book_name , book_id , doi ) TO 'library.csv' WITH HEADER=TRUE; cqlsh:library> truncate library_info ; cqlsh:library> SELECT * FROM library_info; cqlsh:library> COPY library_info (stud_id , counter_value , stud_name , book_name , book_id , doi ) FROM 'library.csv' WITH HEADER=TRUE; cqlsh:library> SELECT * FROM library_info;
```

	Eliver Pai RDA Into
	Strivon Raj BDA Lab classmate
	1Bm14CS095
	1Bm17csog5 B3 Date Proge Lab-6 (II)
	> cgloh
- bestja	CREATE KEYSPACE Lib WITH replication =
18.14.36	& class: Simple Strategy, replication - Jector: 34.
	ase Lib:
61 100	CREATE COLUMNEAMILY library-info (SXUD-10 int
	counter_value counter, stud_nome VARCHAK, NOOK_now
1771	VARCHAR, LOOK_INT, DOI VARCHAR, PRIMARYREY
	(Stud_id, Stud_nome, look_nome, look_id, doi);
10 160	UPDATE library-info set counter_ value =
e toles	counter_value+1 where stud-id=11 and
0.30/	stud_ name = Shirom and book _ name =
	"Vedas' and book _ id = 1 and doi = '01/01/8020;
	Belect # from library-infor Where stud-id=11;
	The second of th
Skive	COPY library-info (stud-id, counter-value, stud-nome,
. 13	book_id, doi) TO D: BDA Cassandra Library. esr'
TOSTOS	WITH MEADER = TRUE;
	SELECTIVE STATE
15 1	COPY library-info (Stud-id, counter_value, stud-name,
82778	book - nome, book - id, doi) FROM D: 1BDA)
	Cassandra Villrary. CSV WITH HEADER = TRUE;
15 10	MEETA SATER TALERT IN TO BURGLASS AT 13 3 P.
(erace)	Beleet # from library_info;
*	rolus (12.1. Markon hilly , Provoger , and action)
	Using THE LET LARRY BATCH
	to you make matt (menged) It to some





Q5.)

Develop a MapReduce program to count the number of occurrences of words in a given file.

CODE - 5

cd /usr/local/hadoop/sbin start-all.sh

jps

mkdir hadfiles

cd hadfiles

touch wordcountfile.txt

nano wordcountfile.txt

hadoop fs -mkdir/programs

hadoop fs -copyFromLocal/home/hadoop/hadfiles/wordcountfiles.txt/programs/prog1.txt

hadoop jar/home/hdoop/hadfiles/wordcount.jar WordCount/programs/prog1.txt/programs/output

hadoop fs -ls/programs/output

hadoop fs -cat/programs/output2/part-r-00000

stop-all.sh

```
[/]$ cd /usr/local/hadoop/sbin]
[/usr/local/hadoop/sbin]$ start—all.sh
WARNING: Attempting to start all Apache Hadoop daemons as hdoop in 10 seconds.
WARNING: This is not a recommended production deployment configuration.
WARNING: Use CTRL—C to abort.
Starting namenodes on [localhost]
Starting datanodes
Starting secondary namenodes [DESKTOP—72U025C]
2020—12—08 23:10:37,345 WARN util.NativeCodeLoader: Unable to load native—hadoop library for your platform... using builtin—java clas ses where applicable
Starting resourcemanager
Starting nodemanagers
[/usr/local/hadoop/sbin]$ jps
14546 NameNode
13315 NodeManager
14948 SecondaryNameNode
15159 ResourceManager
119498 DataNode
```

2. Creating file for counting words of

```
[~]$ mkdir hadfiles
[~]$ cd hadfiles
[~/hadfiles]$ touch wordcountfile.txt
[~/hadfiles]$ nano wordcountfile.txt
```

3. Moving file to Hadoop File System

```
[/usr/local/hadoop]$ hadoop fs -mkdir /programs
```

[/usr/local/hadoop]\$ hadoop fs -copyFromLocal /home/hdoop/hadfiles/wordcountfile.txt /programs/prog1.txt

4. Running wordcount.jar, which consists of wordcount\$Map, wordcount\$Reduce, and wordcount classes

[~/hadfiles]\$ hadoop jar /home/hdoop/hadfiles/wordcount.jar WordCount /programs/prog1.txt /programs/output/

5. Output received

6. Stopping Hadoop

```
~/hadfiles
© stop-all.sh
```

Q6.)

For the given file, create a Map Reduce program to

a) Find the average temperature for each year from NCDC data set.

CODE – 6

cd /usr/local/hadoop/sbin start-all.sh jps

hadoop fs -copyFromLocal/home/hadfiles/1901/programs/avgtemp.txt

hadoop fs-ls/programs

hadoop jar/home/hdoop/hadfiles/average.jar AverageDriver/programs/avgtemp.txt/progr

hadoop fs -ls/programs

hadoop fs -cat/programs/output2/part-r-00000

stop-all.sh

1. Starting Hadoop Cluster

```
hdoop@DESKTOP-72U025C /$ cd /usr/local/hadoop/sbin
hdoop@DESKTOP-72U025C /usr/local/hadoop/sbin$ start-all.sh
WARNING: Attempting to start all Apache Hadoop daemons as hdoop in 10 seconds.
WARNING: This is not a recommended production deployment configuration.
WARNING: Use CTRL-C to abort.
Starting namenodes on [localhost]
Starting datamodes
Starting secondary namenodes [DESKTOP-72U025C]
Starting resourcemanager
Starting nodemanagers
       DESKTOP-72U025C /usr/local/hadoop/sbin$ jps
4128 SecondaryNameNode
3906 DataNode
4499 NodeManager
4342 ResourceManager
4859 Jps
3725 NameNode
```

2. Copying Binary file to Hadoop File System as a txt file

```
hdoop@DESKTOP-72U025C ~/hadfiles$ hadoop fs -copyFromLocal /home/hdoop/hadfiles/1901 /programs/avgtemp.txt hdoop@DESKTOP-72U025C ~/hadfiles$ hadoop fs -ls /programs
Found 3 items
-rw-r--r- 1 hdoop supergroup 888190 2020-12-14 15:04 /programs/avgtemp.txt
```

3. Running Average.jar

```
hdoop@DESKTOP-72UD25C -/hadfiles$ hadoop jar /home/hdoop/hadfiles/average.jar AverageDriver /programs/avgtemp.txt /programs/output2
```

4. Checking location of output file

```
hdoop@DESKTOP-72U025C ~/hadfiles$ hadoop fs -ls /programs

Found 4 items
-rw-r--r-- 1 hdoop supergroup 888190 2020-12-14 15:04 /programs/avgtemp.txt
drwxr-xr-x - hdoop supergroup 0 2020-12-08 23:36 /programs/output
drwxr-xr-x - hdoop supergroup 0 2020-12-14 15:07 /programs/output2
-rw-r--r-- 1 hdoop supergroup 92 2020-12-08 23:20 /programs/prog1.txt
```

5. Result

```
hdoop@DESKTOP-72U025C ~/hadfiles$ hadoop fs -cat /programs/output2/part-r-00000 1901 46
```

6. Stopping Hadoop

```
hdoop@DESKTOP-72U025C ~/hadfiles$ stop-all.sh
```

Q7.)

Write Queries in Hive to do the following

- A. Create an external table named with the following attributes -> Empl_ID >Emp_Name -> Designation -> Salary
- B. Load data into table from a given file.
- C. Create a view to Generate a query to retrieve the employee details who earn a salary of more than Rs 30000.
- D. Alter the table to add a column Dept_Id and Generate a query to retrieve the employee details in order by using Dept_Id.
- E. Generate a query to retrieve the number of employees in each department whose salary is greater than 30000
- F. Create another table Department with attributes -> Dept_Id >Dept_name -> Emp_Id 7. Display the cumulative details of each employee along with department details

CODE - 7

A.

```
CREATE DATABASE IF NOT EXISTS lab9 COMMENT 'employee program' WITH DBPROPERTIES ('creator'=ROUNAK);

SHOW DATABASES;

DESCRIBE DATABASE lab9;

USE lab9;

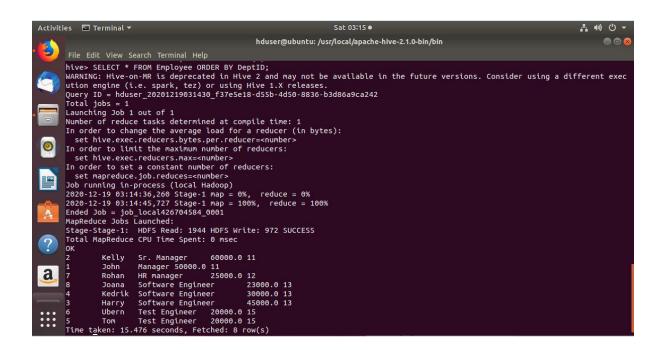
CREATE EXTERNAL TABLE IF NOT EXISTS Employee(EmpID INT,EmpName

STRING,Designation STRING,Salary FLOAT) ROW FORMAT DELIMITED FIELDS TERMINATED

BY '\t';
```

В.

```
TABLE Employee;
SELECT * FROM Employee;
C.
CREATE VIEW emp_30000 AS SELECT * FROM Employee WHERE Salary>30000;
SELECT * FROM emp_30000;
D.
ALTER TABLE Employee ADD COLUMNS(DeptID INT);
LOAD DATA LOCAL INPATH '/home/rounak/Desktop/employeeInputAltered.txt'
OVERWRITE INTO TABLE Employee;
SELECT * FROM Employee;
SELECT * FROM Employee ORDER BY DeptID;
E.
SELECT DeptID,count(*) FROM Employee WHERE Salary>=30000 GROUP BY DeptID;
F.
CREATE EXTERNAL TABLE IF NOT EXISTS Department(Deptid INT, DeptName STRING) ROW
FORMAT DELIMITED FIELDS TERMINATED BY '\t';
LOAD DATA LOCAL INPATH '/home/rounak/Desktop/DepartmentInput.txt' OVERWRITE
INTO TABLE Department;
SELECT * FROM Department;
G.
SELECT a.EmplD,a.EmpName,a.Designation,a.Salary,b.DeptName FROM Employee a
JOIN Department b ON a.DeptID=b.DeptId;
```



```
MapredLocal task succeeded
Launching Job 1 out of 1
Number of reduce tasks is set to 0 since there's no reduce operator
Job running in-process (local Hadoop)
2020-12-19 03:18:13,778 Stage-3 map = 100%, reduce = 0%
Ended Job = job_local1327814845_0003
MapReduce Jobs Launched:
Stage-Stage-3: HDFS Read: 1542 HDFS Write: 546 SUCCESS
Total MapReduce CPU Time Spent: 0 msec

OK
1 John Manager 50000.0 Business Management
2 Kelly Sr. Manager 60000.0 Business Management
3 Harry Software Engineer 45000.0 Development
4 Kedrik Software Engineer 30000.0 Development
5 Tom Test Engineer 20000.0 Testing
6 Ubern Test Engineer 20000.0 Testing
7 Rohan HR manager 25000.0 HR
8 Joana Software Engineer 25000.0 Development
Time taken: 51.043 seconds, Fetched: 8 row(s)
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