- i. Create a key space with name students.
- ii. Create a column family with name student_info.
- iii. Insert the values into the table in batch.

```
bescelbruse-Precision-17709:-$ cd cassandra/apache-cassandra-3.11.0/bin
bescelbruse-precision-17709:-yossandra-1760s-be-cassandra-3.11.0/bin$./cqish
Codish 3.0.1 (assandra 3.11.4 | CQL spec 3.4.4 | Native protocol v4]
Use HEP for helb.
club DESCRIBE KYSPACES;

system_schema system system distributed system_traces
system_auth student employee
cqish- DESCRIBE KYSPACES;

students system_auth student employee
system_schema system system_distributed system_traces
cqish- DESCRIBE KYSPACES;

students system_auth student employee
system_schema system system_traces
cqish- DESCRIBE KYSPACES;

students system_auth student employee
system_schema system system_traces
cqish- DESCRIBE KYSPACES;

students System_auth student employee
system_schema system system_traces
cqish- DESCRIBE TABLE students_info (Roll_No int PRIMARY KEY, StudMame text, DateOfJoining timestamp, last_exam_Percent double);
cqish-istudents> DESCRIBE TABLE students_info (Roll_No int PRIMARY KEY, StudMame text, DateOfJoining timestamp, last_exam_Percent double);
cqish-istudents> DESCRIBE TABLE students_info (
roll_no int PRIMARY KEY,
dateof_sching timestamp,
studmare text
NITH bloom_filter_fp_chance = 0.01
AND caching = ('Reys': 'ALL', 'rome_per_partition': 'NONE')
AND compression = ('chunk_length_in_lab': '64', 'class': 'org.apache.cassandra.to.compress.t24Compressor')
AND corp.cete, chance = 1.0
AND org.check_chance = 1.0
AND org.check_chance = 0.1
AND org.crace_scconds = 864800
AND org.crace_scconds = 864800
AND org.crace_scconds = 864800
AND org.crace_scconds = 804800
```

```
CQLsh:students> SELECT Roll_Mo as "USN" from Students_Info;

USN

(4 rows)

(4 rows)

(4 rows)

CQLsh:students> ?

DOCUMENTED LIS. COPY DESCRIBE EMPAND LOGIN SERIAL SOURCE UNICODE

CLEAR CONSISTENCY DESC EXIT HELP PAGING SHOM TRACENG

CQL help topics:

"CQC He
```

```
cqlsh:students> SELECT = FROM students_info WHERE Studkame = 'John';

"The second this manufacture of the second control of the seco
```

```
| Company | Comp
```

```
cqlsh:students UPDATE students info SET language=['Hindi,English'] MERE Roll_nos1;
Introduction: UPDATE students info SET language=(Hindi,English'] MERE Roll_nos1;
Cqlsh:students UPDATE students info SET language=(Hindi,English'] MERE Roll_nos1;
Cqlsh:students SELECT * FROM Students_info;

| 2021-03-24 18:30:00.000000-0000 | ('Chess,Cricket') | ['Hindi,English'] | 89.98 | David
| 2 | 2021-03-24 18:30:00.000000-0000 | ('Goball,Reading') | mill | 87.98 | Smith
| 3 | 2021-03-24 18:30:00.000000-0000 | ('Goball,Reading') | mill | 87.98 | Smith
| 3 | 2021-03-24 18:30:00.000000-0000 | ('Goball,Reading') | mill | 85.16 | Tyer

(3 rows)

(3 rows)

(4 rows)

(5 rows)

(5 rows)

(5 rows)

(5 rows)

(6 rows)

(7 rows)

(8 rous)

(9 rows)

(9 rows)
```

- **2.** Perform the following DB operations using Cassandra.
 - i. Create a keyspace by name Employee.
 - ii. Create a column family by name Employee-Info with attributes Emp_Id Primary Key, Emp_Name, Designation, Date_of_Joining, Salary, Dept_Name.
 - iii. Insert the values into the table in batch.
 - iv. Update Employee name and Department of Emp-Id 121
 - v. Sort the details of Employee records based on salary
 - vi. Alter the schema of the table Employee_Info to add a column Projects which stores a set of Projects done by the corresponding Employee.
 - vii. Update the altered table to add project names.
 - viii. Create a TTL of 15 seconds to display the values of Employees.

```
Terminol +

cqlsh> CREATE KEYSPACE Employee WITH REPLICATION = ('class':'simpleStrategy','replication_factor':1);

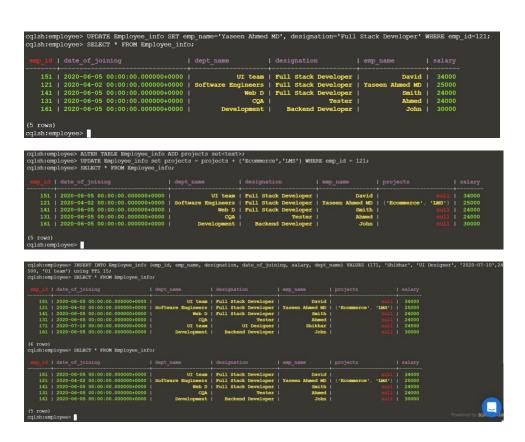
cqlsh> DESCRIBE REYSPACES;

employee system_auth system_schema system_views
system distributed system_traces system_virtual_schema

cqlsh> USE Employee;

cqlsh:employee>
```





- **3.** Perform the following DB operations using Cassandra.
 - i. Create a keyspace by name Library.
 - ii. 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.
 - iii. Insert the values into the table in batch.
 - iv. Display the details of the table created and increase the value of the counter.
 - v. Write a query to show that a student with id 112 has taken a book "BDA" 2 times.
 - vi. Export the created column to a csv file.
 - vii. Import a given csv dataset from local file system into Cassandra column family

Shalini P 1BM19CS406

1. Create a new collection

use Student

2. Insert a value

```
db.Student.insert({
   "Name" : "Akash",
   "RollNo:" : 1,
   "Age" : 21,
   "ContactNo" : "7894561230",
   "EmailId": "akasha@gmail.com"
})
```

3. Insert multiple values at once

```
var MyStudents = [
 {
    "Name": "Akshay",
    "RollNo:": 2,
    "Age": 22,
   "ContactNo": "8945612370",
    "EmailId": "akshay@gmail.com"
 },
 {
    "Name": "Anand",
    "RollNo:": 3,
    "Age": 21,
    "ContactNo": "1234567890",
   "EmailId": "anand@gmail.com"
 },
   "Name": "Ayesha",
    "RollNo:": 4,
    "Age": 20,
    "ContactNo": "5289631470",
   "EmailId": "ayesha@gmail.com"
 },
   "Name": "Vinay",
    "RollNo:": 5,
    "Age": 18,
    "ContactNo": "4561237890",
```

```
"EmailId": "vinay@gmail.com"
 },
1
db.Student.insert(MyStudents);
4. Print all current values
db.getCollection('Student').find({}).forEach(printjson)
{
   "_id": ObjectId("606ad5a6e581cc0b904470a5"),
   "Name": "Akash",
   "RollNo:": 1,
   "Age": 21,
   "ContactNo": "7894561230",
   "EmailId": "akasha@gmail.com"
  "_id": ObjectId("606ad60fe581cc0b904470a6"),
  "Name": "Akshay",
    "RollNo:": 2,
    "Age": 22,
    "ContactNo": "8945612370",
    "EmailId": "akshay@gmail.com"
}
  "_id": ObjectId("606ad60fe581cc0b904470a7"),
  "Name": "Anand",
    "RollNo:": 3,
    "Age": 21,
    "ContactNo": "1234567890",
    "EmailId": "anand@gmail.com"
}
  "_id": ObjectId("606ad60fe581cc0b904470a8"),
  "Name": "Ayesha",
    "RollNo:": 4,
    "Age": 20,
    "ContactNo": "5289631470",
    "EmailId": "ayesha@gmail.com"
}
```

```
"_id": ObjectId("606ad60fe581cc0b904470a9"),
  "Name": "Vinay",
   "RollNo:": 10,
   "Age": 18,
   "ContactNo": "4561237890",
   "EmailId": "vinay@gmail.com"
}
5. Update RollNo of a student
db.Student.update(
{"RollNo:": 10},
{$set: { "EmailId" : "updated@gmail.com"}});
db.getCollection('Student').find({"RollNo:":10}).forEach(printjson)
{
  "_id": ObjectId("606ad60fe581cc0b904470a9"),
  "Name": "Vinay",
   "RollNo:": 10,
   "Age": 18,
   "ContactNo": "4561237890",
   "EmailId": "updated@gmail.com"
}
6. Update Name of a student
db.Student.update(
{"Name": "Akshay"},
{$set: { "Name" : "Avanthika"}});
db.getCollection('Student').find({"Name" : "Avanthika"}).forEach(printjson)
  "_id": ObjectId("606ad5a6e581cc0b904470a5"),
  "Name": "Avanthika",
  "RollNo:" : 2,
   "Age": 22,
   "ContactNo": "8945612370",
   "EmailId": "akshay@gmail.com"
}
```

Shalini P 1BM19CS406

```
7. Export to json mongoexport --db testdb --collection Student --out C:\Users\ Desktop\Student.json  

{"_id" : ObjectId("606ad5a6e581cc0b904470a5"),"Name" : "Akash","RollNo:" : 1,"Age" : 21,"ContactNo" : "7894561230","EmailId": "akasha@gmail.com"}  

{"_id" : ObjectId("606ad5a6e581cc0b904470a5"),"Name" : "Avanthika","RollNo:" : 2,"Age" : 22,"ContactNo" : "8945612370","EmailId": "akshay@gmail.com"}  

{"_id" : ObjectId("606ad60fe581cc0b904470a7"),"Name" : "Anand","RollNo:" : 3,"Age" : 21,"ContactNo" : "1234567890","EmailId" : "anand@gmail.com"}  

{"_id" : ObjectId("606ad60fe581cc0b904470a8"),"Name" : "Ayesha","RollNo:" : 4,"Age" : 20,"ContactNo" : "5289631470","EmailId" : "ayesha@gmail.com"}  

{"_id" : ObjectId("606ad60fe581cc0b904470a9"),"Name" : "Vinay","RollNo:" : 10,"Age" : 18,"ContactNo" : "4561237890","EmailId" : "updated@gmail.com"}
```

9. Import from exported file

db.getCollection('Student').drop()

mongoimport --db testdb --collection Student C:\Users \Desktop\Student.json