Ankit kesar 1BM18CS150

- 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.

```
Interesting the Company of the Compa
```

```
| Part |
```

```
CQLSH:STUDENTS SELECT Roll_No as "USN" from Students_Info;

USN

(4 rows)

(2 c)

(3 c)

(4 rows)

CQLSH:Students> ?

Documented shell commands:

CAPPILEE CLS COPY DESCRIBE EMPAND LOGIN SERIAL SURCE UNICODE

CLEAR CONSISTENCY DESC EXIT HELP PAGING SHOW TRACING

CQL help topics:

ACCRECATION CONSISTENCY DESC EXIT HELP PAGING SHOW TRACING

CQL help topics:

ACCRECATION CONSISTENCY DESC EXIT HELP PAGING SHOW TRACING

CQL help topics:

ACCRECATION CONSISTENCY DESC EXIT HELP PAGING SHOW TRACING

CREATE_NEAR THAT ALL TEXT THAT ALL TEX
```

```
cqlsh:students SELECT * FROM students_info MHERE Studhame = 'John';

profilements to the from broad control co
```

- **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.

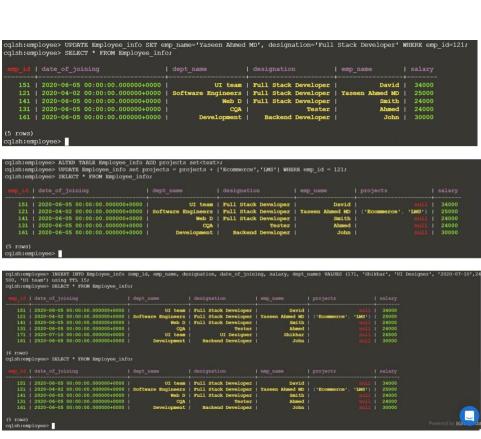
```
Terminol +

cqish> CREATE KEYSPACE Reployee WITH REFLICATION = ('class':'simpleStrategy','replication_factor':1);

cqish> DESCRIBE REYSPACES;

system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system_system
```





- **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

```
cqlshrilbrary- UPCATE Library_info set counter_value = counter_value + 1 WHERE Stud_id = 101 AND Stud_name = 'Md Yaseen' AND Book_name = 'ML' AND Book_id = 1001 AND date_of_issue = '2021-01-202' AND Stud_name = 'Arbar Abmed' AND Book_name = 'ML' AND Book_id = 1003 AND date_of_issue = '3021-01-202' AND Stud_name = 'Arbar Abmed' AND Book_name = 'ML' AND Book_id = 1003 AND date_of_issue = '3021-01-201' AND Rook_id = 1003 AND date_of_issue = '2021-01-201' AND Rook_id = '2021-01-201' AND Rook_id = 1003 AND date_of_issue = '2021-01-201' AND Rook_id = '20
```

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"
}
```

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"}

8. Drop Student

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

9. Import from exported file mongoimport

--db testdb --collection StudentC:\Users \Desktop\Student.json