5. Sort the details of Employee records based on salary

6. Alter the schema of the table Employee Info to add a column Projects which stores a set of Projects done by the corresponding Employee.

7. Update the altered table to add project names.

8. Create a TTL of 15 seconds to display the values of Employees

Perform the following DB operations using Cassandra.

Create a keyspace by name Library

```
cqlsh> CREATE KEYSPACE IF NOT EXISTS Library WITH replication = {'class': 'SimpleStrategy', 'replication_factor': 1}; cqlsh> use Library;
```

2. 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

3. Insert the values into the table in batch

```
cqlsh:library> UPDATE Library_Info SET Counter_value = Counter_value + 1
... HHERE Stud_Id = 111 AND Stud_Name = 'John' AND Book_Name = 'Introduction to Cassandra' AND Book_Id = 'CASS181' AND Date_of_issue = '2824-05-07';

cqlsh:library> select * from Library_Info;

stud_id | book_id | stud_name | book_name | date_of_issue | counter_value

111 | CASS101 | John | Introduction to Cassandra | 2024-05-06 18:30:00.00000040000 | 1

(1 rows)

cqlsh:library> Update Library_Info Set counter_value = counter_value+1 where Stud_Id = 112, Stud_Name = 'Riya', Book_Name = 'BDA', Book_Id='BDA01', Date_of_issue='2024-06-07';

vntat/scorption: library_Info Set Counter_value = Counter_value+1 where Stud_Id = 112, Stud_Name = 'Riya', AND Book_Name = 'BDA', AND Book_Id='BDA01', Date_of_issue='2024-06-07';

vntat/scorption: library_Info SET Counter_value = Counter_value + 1 where Stud_Id = 112 AND Stud_Name = 'Riya', AND Book_Name = 'BDA', AND Book_Id='BDA01', Date_of_issue='2024-06-09';

cqlsh:library> UPDATE Library_Info SET Counter_value = Counter_value + 1 where Stud_Id = 113 AND Stud_Name = 'Name: Name: Name:
```

4. Display the details of the table created and increase the value of the counter

5. Write a query to show that a student with id 112 has taken a book "BDA" 2 time

6. Export the created column to a csv file

```
(I Tows)
cqlsh:library> copy Library_info (Stud_Id,Book_Id,Stud_Name,Book_Name,Date_of_issue,Counter_value) TO '/home/bmscecse/Library_info
csv';
Using 16 child processes

Starting copy of library.library_info with columns [stud_id, book_id, stud_name, book_name, date_of_issue, counter_value].
Processed: 4 rows; Rate: 56 rows/s; Avg. rate: 56 rows/s
4 rows exported to 1 files in 0.090 seconds.
cqlsh:library>
cqlsh:library> select * from Library_info;
```

7. Import a given csv dataset from local file system into Cassandra column family

```
bmscecse@bmscecse-HP-Elite-Tower-800-G9-... ×
                                                                                                                                                                                                                                                                                                                                                                                                                               bmscecse@bmscecse-HP-Elite-Tower-800-G9-...
                   141 | 2022-02-17 18:30:00.000000+0000 |
131 | 2020-01-16 18:30:00.000000+0000 |
                                                                                                                                                                                                                                                   IT | Analyst |
IT | Developer |
                                                                                                                                                                                                                                                                                                                                                           Priya | 50000
Riya | 40000
(5 rows)

cqlsh:employee> drop table employee_info;

cqlsh:employee> CREATE TABLE Employee_Info(Emp_id int ,Emp_Name text, Designation text, Date_of_Joining timestamp, Salary double, D

ept_Name text, PRIMARY KEY(Emp_id,Salary));

cqlsh:employee> Begin batch

insert into Employee_Info(Emp_id,Emp_Name,Designation, Date_of_Joining, Salary,Dept_Name)
                                                       yee> Begin batch
... insert into Employee_Info(Emp_id,Emp_Name,Designation, Date_of_Joining, Salary,Dept_Name)
... VALUES (111,'John','Manager','2010-02-27',80000.0,'IT')
... insert into Employee_Info(Emp_id,Emp_Name,Designation, Date_of_Joining, Salary,Dept_Name)
... VALUES (121,'James','Developer','2019-06-27',60000.0,'IT')
... insert into Employee_Info(Emp_id,Emp_Name,Designation, Date_of_Joining, Salary,Dept_Name)
... VALUES (131,'Riya','Developer','2020-01-17',40000.0,'IT')
... insert into Employee_Info(Emp_id,Emp_Name,Designation, Date_of_Joining, Salary,Dept_Name)
... VALUES (141,'Priya','Analyst','2022-02-18',50000.0,'IT')
... insert into Employee_Info(Emp_id,Emp_Name,Designation, Date_of_Joining, Salary,Dept_Name)
... VALUES (151,'Davaid','Analyst','2012-02-18',70000.0,'IT')
... APPLY BATCH;
DATCH:
DA
                                                            ... APPLY BATCH;
  cqlsh:employee> select * from Employee_info where emp_id in (111,121,131,141,151) order by salary desc;
                                                                                                                                                                                                                                                                                                                           Manager |
Analyst |
Developer |
Analyst |
Payeloper |
                  111 | 80000 | 2010-02-26 18:30:00.000000+0000 | 151 | 70000 | 2012-02-17 18:30:00.000000+0000 | 121 | 60000 | 2019-06-26 18:30:00.000000+0000 | 141 | 50000 | 2022-02-17 18:30:00.000000+0000 | 131 | 40000 | 2020-01-16 18:30:00.000000+0000 |
                                                                                                                                                                                                                                                                                           IT |
IT |
IT |
IT |
                                                                                                                                                                                                                                                                                                                                                                                                       James
Priya
    (5 rows)
  cqlsh:employee>
```