**NAME: HRITIK SINGH** 

USN:1BM19CS063

**SECTION: 6-B** 

BATCH:1

## **BDA LAB WEEK3 CASSANDRA ASSIGNMENT WITH SCREENSHOTS:**

1. Create a key space by name Employee

2. Create a column family by name Employee-Info with attributes Emp\_Id Primary Key, Emp\_Name, Designation, Date\_of\_Joining, Salary, Dept\_Name

3. Insert the values into the table in batch

```
cqlsh:employee> BEGIN SATCH
          ... DMSERT INTO Employee_Info(cluster_col_emp_id,emp_name,designation,Date_of_Joining,Salary,Dept_Name) VALUES ('nyz',1,'Ravi','MTS','2020-00-24',12000,'TESTING
           ... INSERT INTO Employee Info(cluster_col,emp_id,emp_name,designation,Date_of_loining,Salary,Dept_Name) VALUES ('xyz',2,'Vamshi','MANAGER','2021-03-20',50000,"
EVELOPEMENT');
           ... INSERT INTO Employee_Info(cluster_cnl,emp_id,emp_name,designation,Date_of_loining,Salary,Dept_Name) VALUES ('xyz',121,'Kiran','SDE','2819-04-21',18808, 'PROI
CTION');
           ... INSERT INTO Employee Info(cluster_col,emp_id,emp_name,designation,Date_of_Joining,Salary,Dept_Name) VALUES ('xyz',3,'Ramesh','ANALYST','2828-85-87',28888,'
ALITY');
           ... APPLY BATCH;
qlsh:employee> SELECT*FROM Employee_Info;
cluster_col | salary | date_of_joining
                                                      | dept_name | designation | emp_id | emp_name
       xyz | 50000 | 2021-03-19 18:38:00.000000+0000 | DEVELOPEMENT |
             28888
                     2020-05-06 18:30:00.000000-0000
                                                                           ANALYST
                                                                                         3
       XyZ
                                                             OUALITY
                                                                                                Ramesh
             12000 | 2020-00-23 10:30:00.000000+0000
                                                                                                 Ravi
                                                             TESTING
                                                                              MTS
       Xy2
             18880 | 2819-84-20 18:30:00.000000+0000 |
                                                                               SDE
                                                                                       121
                                                         PRODUCTION
                                                                                                Kiran
4 rous
```

4. Update Employee name and Department of Emp-Id 121

```
colsh:employee> update Employee_Info SET emp_name='karthik',dept_name='Compliance' where cluster_col='xyz' and salary=19888 IF emp_id=121;
 [applied]
     True
cqlsh:employee> SELECT*FROM Employee_Info;
 cluster_col | salary | date_of_joining
                                                                     | designation | emp_id | emp_name | projects
                                                       dept_name
               50000 | 2821-03-19 18:30:00.000000+0000 | DEVELOPEMENT
                                                                                                                  {'AI', 'DS'}
         xyz |
                                                                           MANAGER
                                                                                                Vanshi
               20000
                       2020-05-06 18:30:00.000000+0000
                                                             QUALITY
                                                                           ANALYST
                                                                                                                    {"DEVOPS"}
                                                                                                Ramesh
         xyz.
               12000
                       2828-88-23 18:30:00.000000+0000
                                                              TESTING
         xyz
                                                                                                  Ravi
               18898 | 2019-84-20 18:38:00.000000-0000
                                                          Compliance
                                                                               SDE
                                                                                        121
                                                                                               karthik | {'QUANTUM COMPUTING'}
```

5. Sort the details of Employee records based on salary

:luster_col	salary	date_of_joining	dept_name	designation	emp_id	emp_name	projects
хуг	50000	2021-03-19 18:30:00.0000000+00000	DEVELOPEMENT	MANAGER	2	Vamshi	null
xyz	20000	2020-05-06 18:30:00.000000+0000	QUALITY	ANALYST	3	Ramesh	null
xyz	12000	2020-08-23 18:30:00.0000000+0000	TESTING	MTS	1	Ravi	null
XYZ	10000	2019-04-20 18:30:00.0000000+0000	Finance	SDE	121	Jignesh	null

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.

:luster_col	salary	date_of_joining	dept_name	designation	emp_id	emp_name	projects
			<del> </del>				
XYZ	50000	2021-03-19 18:30:00.000000+0000	DEVELOPEMENT	MANAGER	2	Vamshi	null
XyZ	20000	2020-05-06 18:30:00.000000+0000	QUALITY	ANALYST	3	Ramesh	null
XYZ	12000	2020-08-23 18:30:00.000000+0000	TESTING	MTS	1	Ravi	null
XVZ	10000	2019-04-20 18:30:00.000000+0000	Finance	SDE	121	Jignesh	null

7. Update the altered table to add project names.

```
[applied]
calsh:employee> update Employee_Info SET projects=projects+("AI","D5") where cluster_col="xyz" and salary=50000 IF emp_id=2;
[applied]
     True
calsh:employee> update Employee_Info SET projects=projects+{'DEVOPS'} where cluster_col='xyz' and salary=20000 IF emp_id=3;
[applied]
qlsh:employee> update Employee_Info SET projects=projects+{'QWWNTUM COMPUTING'} where cluster_col='xyz' and salary=10000 IF emp_id=121;
:glsh:employee> SELECT*FROM Employee_Info;
cluster_col | salary | date_of_joining
                                                              | dept_name | designation | emp_id | emp_name | projects
                                                                                                                                   ('AI', 'DS')
{'DEVOPS'}
                50000 | 2021-03-19 18:30:00.000000+0000 |
                                                                DEVELOPEMENT
                                                                                      MANAGER
        xyz
xyz
xyz
                20008 | 2020-05-96 18:30:00.000000+0000
12000 | 2020-08-23 18:30:80.000000+0000
10000 | 2019-04-20 18:30:80.000000+0000
                                                                                      ANALYST
NTS
SDE
                                                                                                             Ramesh
Ravi
Jignesh
                                                                      QUALITY
TESTING
```

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

cluster_col	salary	date_of_joining	dept_name	designation	emp_id	emp_name	projects
хуг	50000	2821-83-19 18:38:88.8888888+8888	DEVELOPEMENT	MANAGER	2	Vanshi	('AI', 'DS')
xyz	20000	2829-85-86 18:38:98.000000+8000	QUALITY	ANALYST	3	Ramesh	('DEVOPS')
xyz	12888	2828-88-23 18:38:88.898889+8998	TESTING	HTS	1	Ravi	{'%L'}
xyz	18888	2819-84-28 18:38:88.8888888+8888	Finance	SDE	121	Jignesh	('QUANTUM COMPUTING')
xyz	1000	2822-64-28 18:38:80.888888+8888	PRODUCTION	SDE	121	Modi	mul!
5 rows) qlsh:employe	e> SELECT	'FROM Employee_Info;					
cluster_col	salary	date_of_joining	dept_name	designation	emp_id	emp_name	projects
xyz	50000	date_of_joining   2821-03-19 18:38:80.800008+0000   2828-85-86 18:38:80.800008+0000	DEVELOPEMENT	MANAGER	2	Vanshi	{'AI', 'DS'
		2821-63-19 18:38:68.88888+8888					