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1) Perform following DB operations using cassandra.

1) Create a keyspace by name Employee.

```
CREATE KEYSPACE Employee WITH REPLICATION = {'class':  
'SimpleStrategy', 'replication-factor': 1};
```

2) Create a column family by name Employee-info with attributes Emp-Id, Primary key, Emp-Name, Designation, Date-g-Joining, Salary, Dept-Name.

```
CREATE TABLE Employee-Info (Emp-Id int Primary key,  
Emp-Name text, Designation text, Date-g-Joining timestamp,  
Salary int, Dept-Name text);
```

3) Insert the values into the table in batch.

```
BEGIN BATCH  
INSERT INTO Employee-Info (Emp-Id, Emp-Name, Designation,  
Date-g-Joining, Salary, Dept-Name)  
VALUES (121, 'Rani', 'Software Engineer', '2012-03-12', 80000, 'Devlop')  
INSERT INTO Employee-Info (Emp-Id, Emp-Name, Designation,  
Date-g-Joining, Salary, Dept-Name)  
VALUES (125, 'Riya', 'Test Engineer', '2015-04-20', 60000, 'Testing')  
INSERT INTO Employee-Info (Emp-Id, Emp-Name, Designation,  
Date-g-Joining, Salary, Dept-Name)  
VALUES (205, 'Anjani', 'Manager', '2018-05-13', 80000, 'Production')  
APPLY BATCH;
```



04) Update Employee name and Department of Emp-Id 121.  
UPDATE Employee-Info SET Emp-Name = 'Ruhfa', ~~AND~~  
Dept-Name = 'Marketing' WHERE Emp-Id = 121;

05) Sort the details of Employee records based on salary.

```
SELECT *  
FROM Employee-Info  
WHERE Emp-Id > 121 ORDER BY salary ASC;
```

06) Alter the schema of the table Employee-Info to add a column projects which stores a set of projects done by the corresponding Employee.

```
ALTER TABLE Employee-Info ADD Projects set(text);  
DESCRIBE TABLE Employee-Info;
```

07) Update the altered table to add project names.

```
UPDATE Employee-Info SET Projects = Projects +  
{ 'Attendance Management System', 'Online Quiz' }  
WHERE Emp-Id = 121;
```

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

```
INSERT INTO Employee-Info (Emp-Id, Emp-Name, Designation,  
Date-of-Joining, Salary, Dept-Name)  
VALUES (130, 'Riya', 'SDE', '2018-07-20', 50,000, 'Development')  
SELECT TTL (Designation) FROM Employee-Info WHERE Emp-Id = 130;
```