9/11/20

BDA LAB-5

Program - I:

1) Create a keyspace by name Employee

```
CREATE KEYSPACE if not exists EMPLOYEE

USE EMPLOYEE
```

2) Create a column family by name Employee-Info with attributes - Emp-Id Primary key, Emp-name, Designation, DOJ, Salary, Dept-name

```
Create COLUMNFAMILY Employee_Info
(
    Emp_Id INT PRIMARY KEY,
    Emp-name VARCHAR,
    Designation VARCHAR,
    Date_of_Joining ~~VARCHAR~~, DATE,
    Salary FLOAT,
    Dept_name VARCHAR
);
```

3. Insert values into the table in batch

```
BEGIN BATCH
Insert into employee-info (Emp-Id, Emp-name, Designation,
Date-of-joining, salary, dept-name) VALUES
(1000, Phoebe, Manager, '2019-12-05', 100000, 'Finance')
Insert into employee-info(Emp-id, Emp-name, Designation
Date-of-joining, salary, dept-name) VALUES
(121, Chandler, Associate, '2019-6-05', 90000, Marketing)
```

APPLY BATCH

4) Update Employee name & Dept of Emp_id 121

```
UPDATE Employee_Info
SET name = 'Marshall', Department = 'Finance'
WHERE Emp_id = 121;
```

5) sort the details of Employee records based on salary.

```
select * from Employee_Info where emp_id in(123)
Order by salary
```

6) Alter the scheme of the table Employee_info add a column Projects which stores a set of Projects done by the corresponding Employee

```
ALTER TABLE Employee_Info
ADD Projects VARCHAR
```

7) Update the altered table to add project names.

```
UPDATE Employee_Info
SET Projects = 'Handwritten digits recognition'
WHERE Emp_id = 1000
```

8) Create a TTL of 15 seconds to display values of Employees

```
insert into Employee_Info(Emp_ID, Name, Doing_DOJ, Salary,
dept_name) values(124, 'Kavitha', 'Manager', '2013-10-02',
60000, 'management') using TTL 15;
select * from Employee_info
```

Program !!

1) Create a keyspace by name Library

```
CREATE KEYSPACE if not exists LIBRARY
USE LIBRARY
```

2) Create a columnfamily by name Library-info with attributes Stud_Id Primary key, counter_value of type counter, stud-name, book_name, book_Id, date Of Iss

```
Create columnfamily LIBRARY_INFO
(
    Stud_Id  PINT Primary Key,
    Counter_Value counter,
    Stud_name VARCHAR,
    book_name VARCHAR,
    book_id  VARCHAR,
    date_of_issue date
);
```

3. Insert data into Table in batch

```
BEGIN BATCH
Insert into library_info (stud_id, counter_value,
stud_name, book_name, book_id, date_of_issue)
VALUES (1, counter_value +1, , stud_name = 'Rocky',
book_name = 'Data Structures', '07/11/2020')
```

4) Write a query to show that a student with id 112 has taken a book "BDA" 2 times.

```
Select * from Library_Info where
Counter_value = 2 ALLOW FILTERING;
```

5) Export the created column to a csv file

```
COPY Library_Info (stud_ID, counter_value, stud_name,
book_name, book_id, DOI) TO '/home/table/res.csv'
with HEADER = TRUE;
```

6) Import a given csv dataset from local file system to cassandra column family.

```
COPY Library_Info (stud_id, counter_value, stud_name,
book_name, book_id, DOI) FROM '/home/table/
res.csv' WITH HEADER=TRUE;
```