ICP

CQL SCREENSHOTS

- **Key space creation:** key space is created with the following command

```
cqlsh> create keyspace CS with replication={'class':'SimpleStrategy', 'replication_factor':1};
cqlsh> USE CS;CREATE TABLE employee (empno int,ename text,jobtitle text,hiredate date,salary int,annual_salary int,dept_name text,dept_no int,PRIMARY KEY(empno, jo
btitle, hiredate));COPY employee (empno, ename,jobtitle,hiredate,salary,annual_salary,dept_name,dept_no) FROM 'C:\Users\haris\Downloads\data.csv' WITH HEADER=True
AND DELIMITER='|';
Using 7 child processes
```

- **Table creation**: A employeess table is created with the command shown In the following screenshot

```
(0 rows)
cqlsh:cs> USE CS;CREATE TABLE employeess (empno int,ename text,jobtitle text,hiredate date,salary int,annual_salary int,dept_name text,dept_no int,PRIMARY KEY(empn
o));
cqlsh:cs> select * from employeess;

 empno | annual_salary | dept_name | dept_no | ename | hiredate | jobtitle | salary
-------+---------------+-----------+---------+-------+----------+----------+-------
```

1.List the empno,ename,jobtitle,and hiredate of employee from the employee table.

Employee table data insertion: Data is inserted into the table using the insert command

```
cqlsh:cs> INSERT INTO employeess (empno,annual_salary,dept_name,dept_no,ename,hiredate,jobtitle,salary) VALUES(1,72000,'cse',22,'stevens','1980-12-17','clerk',600)
;
cqlsh:cs> select * from employeess;

 empno | annual_salary | dept_name | dept_no | ename   | hiredate   | jobtitle | salary
-------+---------------+-----------+---------+---------+------------+----------+-------
     1 |         72000 |       cse |      22 | stevens | 1980-12-17 |    clerk |    600

(1 rows)
cqlsh:cs> INSERT INTO employeess (empno,annual_salary,dept_name,dept_no,ename,hiredate,jobtitle,salary) VALUES(2,6000,'ece',42,'johns',1995-05-12,'manager',100);
SyntaxException: line 1:129 mismatched input '-05' expecting ')' (...,6000,'ece',42,'johns',1995[-05]-12...)
cqlsh:cs> INSERT INTO employeess (empno,annual_salary,dept_name,dept_no,ename,hiredate,jobtitle,salary) VALUES(2,6000,'ece',42,'johns','1995-05-12','manager',100);

cqlsh:cs> INSERT INTO employeess (empno,annual_salary,dept_name,dept_no,ename,hiredate,jobtitle,salary) VALUES(3,68000,'mech',12,'smith','2000-06-14','clerk',500);

cqlsh:cs> select * from employeess;

 empno | annual_salary | dept_name | dept_no | ename   | hiredate   | jobtitle | salary
-------+---------------+-----------+---------+---------+------------+----------+-------
     1 |         72000 |       cse |      22 | stevens | 1980-12-17 |    clerk |    600
     2 |          6000 |       ece |      42 |   johns | 1995-05-12 |  manager |    100
     3 |         68000 |      mech |      12 |   smith | 2000-06-14 |    clerk |    500

(3 rows)
cqlsh:cs> INSERT INTO employeess (empno,annual_salary,dept_name,dept_no,ename,hiredate,jobtitle,salary) VALUES(4,88000,'eee',21,'james','1987-07-16','manager',500)
;
cqlsh:cs> select * from employeess;

 empno | annual_salary | dept_name | dept_no | ename   | hiredate   | jobtitle | salary
-------+---------------+-----------+---------+---------+------------+----------+-------
     1 |         72000 |       cse |      22 | stevens | 1980-12-17 |    clerk |    600
     2 |          6000 |       ece |      42 |   johns | 1995-05-12 |  manager |    100
     4 |         88000 |       eee |      21 |   james | 1987-07-16 |  manager |    500
     3 |         68000 |      mech |      12 |   smith | 2000-06-14 |    clerk |    500

(4 rows)
cqlsh:cs> select * from employeess;
```

2. List the name,salary of the employees who are clerks.

Name and salary of the employees who are clerks are listed below using the following command

```
cqlsh:cs> select ename,salary from employeess where jobtitle='clerk' ALLOW FILTERING;

 ename   | salary
---------+--------
 stevens |    600
   smith |    500

(2 rows)
```

3. List the name,job,salary of every employee joined on 'december 17,1980'

The following command in the screenshot is used to list the name, job, salary of employee who joined on December 17,1980.

```
cqlsh:cs> select ename,jobtitle,salary from employeess where hiredate='1980-12-17' ALLOW FILTERING;

 ename  | jobtitle | salary
--------+----------+--------
 stevens |   clerk |    600

(1 rows)
```

4. List name and annual salary of all the employees

The following command is used to list the name and annual salary of employees

```
cqlsh:cs> select ename,annual_salary from employeess ALLOW FILTERING;

 ename   | annual_salary
---------+---------------
 stevens |         72000
   johns |          6000
   james |         88000
   smith |         68000

(4 rows)
```

5. List the department name & deptno for departments having deptno.>=20

Department name and number having department number greater than 20 are listed using the following command

```
cqlsh:cs> select dept_name,dept_no from employeess where dept_no>=20 allow filtering;

 dept_name | dept_no
-----------+---------
       cse |      22
       ece |      42
       eee |      21
```

6. Display employees' names, salary and manager values of those employees whose salary is 500 from EMP table using SELECT statement.

Employees name, salary who are managers and salary is equal to 500 are listed using the following command

```
cqlsh:cs> select ename,salary from employeess where salary = 500 and jobtitle='manager' allow filtering;

 ename | salary
-------+--------
 james |    500
```

Submitted by

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