CASSANDRA – LAB 2

- 1. In the keyspace named hospital in Cassandra database do the following.
- **a)** Create a user defined datatype named patientinfo with fields height, weight, symptoms.

Ans=

```
cqlsh:hospital> create type patientinfo(height text, weight int, symptoms text);
```

b) Add a new column named info in patient table which has the user defined type patientinfo.

Ans=

```
cqlsh:hospital> alter table patient add info frozen<patientinfo>;
cqlsh:hospital>
```

c) Update the rows in patient table by adding data to info.

d) Update user defined type patientinfo by adding a field named oxylevel.

Ans=

e) Create an index for ptname of table patient.

Ans=

```
cqlsh:hospital> create index ptnameindex on patient(ptname);
```

f) Find the details of a particular patient where ptname is given.

Ans=

```
cqlsh:hospital> select * from patient where ptname='Rushi';
ptid | address | info | phone | ptname

2 | {'Home2': 'Pune'} | {height: '168cm', weight: 68, symptoms: 'Fever', oxylevel: null} | ['9023456789'] | Rushi

(1 rows)
cqlsh:hospital> |
```

g) Drop the index for ptname.

```
cqlsh:hospital> drop index ptnameindex; cqlsh:hospital>
```

h) Create a columnfamily named staff with columns sid, sname, dept and salary where sname is a userdefined type with fields fname and lname.

Ans=

```
cqlsh:hospital> create type names(fname text, lname text);
cqlsh:hospital> create table staff(sid int primary key, sname frozen<names>, dept text, salary int);
cqlsh:hospital>
```

i) Insert some rows into staff table.

Ans=

j) Find the details of a particular staff whose fname and Iname is given using allow filtering option.

k) Rename the fields fname and lname as firstname and lastname.

Ans=

I) Find the maximum salary available in the staff table.