CASSANDRA - LAB 1

Q1. Create a keyspace named hospital with class SimpleStrategy and replication factor 1 in Cassandra database and do the following.

```
cqlsh> create keyspace hospital with replication ={'class':'SimpleStrategy','replication_factor':1};
```

a) Create a columnfamily named patient with columns ptid, ptname, address(map), phone(list).

```
pital> create table patient(ptid int primary key,ptname text,address map<text,text>,phone list<br/>bigint>)
```

b) Create another columnfamily named doctor with columns docid, docname, dept, qualification(set).

cqlsh:hospital> create table doctor(docid int primary key,docname text,dept text,qualificati
on set<text>);

c) Insert some rows into patient and doctor tables as a batch.

```
pital> begin batch
... insert into patient(ptid,ptname,address,phone) values (1,'rama',{'street':'sb road','city':'pune'},[1234
... insert into patient(ptid,ptname,address,phone) values (2,'ruhi',{'street':'koradi road','city':'nagpur'}
]);
... apply batch;
```

d) Change one phone no: with a new one of a particular patient.

e) Remove a phone no: from the list of a particular patient.

f) Update the house no: of a particular patient in the map address.

g) Add a new qualification to the set of a particular doctor.

h) Display docname and dept of all doctors.

```
pital> select docname,dept from doctor;
| dept
+-----
| gynac
| ortho
```

i) Add a new column named email in doctor table.

j) Display all the keyspaces.

```
cqlsh:hospital> desc keyspaces;
hospital system_auth system system_distributed system_traces system_schema
```