

# LAB 1 - BDA

## 1BM18CS079 -Rajath MK

### B2 batch

#### SCREENSHOTS :

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Activities Terminal Mar 22 15:26
bmsce@bmsce-Precision-T1700: ~/cassandra/apache-cassandra-3.11.0/bin

bash: cd: bmsce: No such file or directory
bmsce@bmsce-Precision-T1700:~$ cd cassandra
bmsce@bmsce-Precision-T1700:~/cassandra$ ls
apache-cassandra-3.11.0
bmsce@bmsce-Precision-T1700:~/cassandra$ cd apache-cassandra-3.11.0
bmsce@bmsce-Precision-T1700:~/cassandra/apache-cassandra-3.11.0$ cd bin
bmsce@bmsce-Precision-T1700:~/cassandra/apache-cassandra-3.11.0/bin$ ./cqlsh
Connected to Test Cluster at 127.0.0.1:9042.
[cqlsh 5.0.1 | Cassandra 3.11.4 | CQL spec 3.4.4 | Native protocol v4]
Use HELP for help.
cqlsh> CREATE KEYSPACE students WITH REPLICATION={
... 'class':'SimpleStrategy',
... 'replication_factor'=1};
SyntaxException: line 3:20 mismatched input '=' expecting ':' (...REPLICATION={ 'class':'SimpleStrategy','replication_factor'(...)
cqlsh> CREATE KEYSPACE students WITH REPLICATION={ 'class':'SimpleStrategy', 'replication_factor':1};
AlreadyExists: Keyspace 'students' already exists
cqlsh> CREATE KEYSPACE student WITH REPLICATION={ 'class':'SimpleStrategy', 'replication_factor':1};
cqlsh> DESCRIBE KEYSPACES

students      system_auth  student      system_traces
system_schema system        system_distributed

cqlsh> SELECT *FROM system.schema_keyspaces;
InvalidRequest: Error from server: code=2200 [Invalid query] message="unconfigured table schema_keyspaces"
cqlsh> SELECT * FROM system.schema_keyspaces;
InvalidRequest: Error from server: code=2200 [Invalid query] message="unconfigured table schema_keyspaces"
cqlsh> SELECT* FROM system.schema_keyspaces;
InvalidRequest: Error from server: code=2200 [Invalid query] message="unconfigured table schema_keyspaces"
cqlsh> USE student
...
Incomplete statement at end of file
bmsce@bmsce-Precision-T1700:~/cassandra/apache-cassandra-3.11.0/bin$ CREATE KEYSPACE Students WITH REPLICATION={ 'class':'SimpleStrategy', 'replication-factor':1};
CREATE: command not found
bmsce@bmsce-Precision-T1700:~/cassandra/apache-cassandra-3.11.0/bin$ ./cqlsh
Connected to Test Cluster at 127.0.0.1:9042.
[cqlsh 5.0.1 | Cassandra 3.11.4 | CQL spec 3.4.4 | Native protocol v4]
Use HELP for help.
cqlsh> CREATE KEYSPACE students WITH REPLICATION={ 'class':'SimpleStrategy', 'replication_factor':1};
AlreadyExists: Keyspace 'students' already exists
cqlsh> CREATE KEYSPACE Student WITH REPLICATION={ 'class':'SimpleStrategy', 'replication_factor':1};
AlreadyExists: Keyspace 'student' already exists
cqlsh> CREATE KEYSPACE Students_profile WITH REPLICATION={ 'class':'SimpleStrategy', 'replication_factor':1};
cqlsh> DESCRIBE KEYSPACES;
```

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Activities Terminal Mar 22 15:26
bmsce@bmsce-Precision-T1700: ~/cassandra/apache-cassandra-3.11.0/bin

SyntaxException: line 1:87 mismatched input 'timestamp' expecting ')' (... PRIMARY KEY,StudName text,DateOfJoining [timestamp]...)
cqlsh:students_profile> create table students_profile_Info(RollNo int PRIMARY KEY,StudName text,DateOfJoining timestamp,LastExamPercent double);
cqlsh:students_profile> DESCRIBE TABLES

students_profile_info

cqlsh:students_profile> DESCRIBE TABLE students_info
Column Family 'students_info' not found
cqlsh:students_profile> DESCRIBE TABLE students_profile_info

CREATE TABLE students_profile.students_profile_info (
    rollno int PRIMARY KEY,
    dateofjoining timestamp,
    lastexampercent double,
    studename text
) WITH bloom filter_fp_chance = 0.01
AND caching = {'keys': 'ALL', 'rows_per_partition': 'NONE'}
AND comment = ''
AND compaction = {'class': 'org.apache.cassandra.db.compaction.SizeTieredCompactionStrategy', 'max_threshold': '32', 'min_threshold': '4'}
AND compression = {'chunk_length_in_kb': '64', 'class': 'org.apache.cassandra.io.compress.LZ4Compressor'}
AND crc_check_chance = 1.0
AND dclocal_read_repair_chance = 0.1
AND default_time_to_live = 0
AND gc_grace_seconds = 864000
AND max_index_interval = 2048
AND memtable_flush_period_in_ms = 0
AND min_index_interval = 128
AND read_repair_chance = 0.0
AND speculative_retry = '99PERCENTILE';

cqlsh:students_profile> BEGIN BATCH
... INSERT INTO
... student info(RollNo,StudName,DateOfJoining,LastExamPercent)
... VALUES(1,"Michael Storm",'2012-03-29',69.6)
... INSERT INTO student info
... (RollNo,StudName,DateofJoining,LastExamPercent)VALUES
... (2,'Stephen Fox','2013-02-27',72.5)
... APPLY BATCH
... ;
SyntaxException: line 4:24 no viable alternative at input '(' (...DateOfJoining,LastExamPercent)VALUES(1,["Michael Stor]m",...)
cqlsh:students_profile> BEGIN BATCH INSERT INTO student info(RollNo,StudName,DateOfJoining,LastExamPercent) VALUES(1,"Michael Storm",'2012-03-29',69.6) INSERT INTO s
tudent info (RollNo,StudName,DateofJoining,LastExamPercent)VALUES (2,'Stephen Fox','2013-02-27',72.5) APPLY BATCH;
SyntaxException: line 1:108 no viable alternative at input '(' (...DateofJoining,LastExamPercent)VALUES(1,["Michael Storm]m",...)
```

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bmsce@bmsce-Precision-T1700:~/cassandra/apache-cassandra-3.11.0/bin$ ./cqlsh
Connected to Test Cluster at 127.0.0.1:9042.
[cqlsh 5.0.1 | Cassandra 3.11.4 | CQL spec 3.4.4 | Native protocol v4]
Use HELP for help.
cqlsh>
cqlsh> BEGIN BATCH INSERT INTO student_profile info(RollNo,StudName,DateOfJoining,LastExamPercent) VALUES(1,"Michael Storm",'2012-03-29',69.6) INSERT INTO students_p
ofile info (RollNo,StudName,DateofJoining,LastExamPercent)VALUES (2,'Stephen Fox','2013-02-27',72.5) APPLY BATCH;
SyntaxException: line 1:116 no viable alternative at input ' (' (...DateofJoining,LastExamPercent) VALUES(1,"Michael Storm",...)
cqlsh>
cqlsh> BEGIN BATCH INSERT INTO students_profile info(RollNo,StudName,DateOfJoining,LastExamPercent) VALUES(1,"Michael Storm",'2012-03-29',69.6) INSERT INTO students_p
ofile info (RollNo,StudName,DateofJoining,LastExamPercent)VALUES (2,'Stephen Fox','2013-02-27',72.5) APPLY BATCH;
SyntaxException: line 1:117 no viable alternative at input ' (' (...DateofJoining,LastExamPercent) VALUES(1,"Michael Storm",...)
cqlsh> BEGIN BATCH INSERT INTO students_profile info(RollNo,StudName,DateOfJoining,LastExamPercent) VALUES(1,"Michael Storm",'2012-03-29',69.6) INSERT INTO students_p
ofile info (RollNo,StudName,DateofJoining,LastExamPercent)VALUES (2,'Stephen Fox','2013-02-27',72.5) APPLY BATCH;
InvalidRequest: Error from server: code=2200 [Invalid query] message="No keyspace has been specified. USE a keyspace, or explicitly specify keyspace.tableName"
cqlsh> USE Students_profile;
cqlsh:students_profile> BEGIN BATCH INSERT INTO students_profile info(RollNo,StudName,DateOfJoining,LastExamPercent) VALUES(1,'Michael Storm','2012-03-29',69.6) INSE
RT INTO students_profile info (RollNo,StudName,DateofJoining,LastExamPercent)VALUES (2,'Stephen Fox','2013-02-27',72.5) APPLY BATCH;
InvalidRequest: Error from server: code=2200 [Invalid query] message="Undefined column name studname"
cqlsh:students_profile> BEGIN BATCH INSERT INTO students_profile info(RollNo,StudName,DateOfJoining,LastExamPercent) VALUES(1,'Michael Storm','2012-03-29',69.6) INSE
RT INTO students_profile info (RollNo,StudName,DateofJoining,LastExamPercent)VALUES (2,'Stephen Fox','2013-02-27',72.5) APPLY BATCH;
cqlsh:students_profile> SELECT* FROM Students_profile_info;

rollno | dateofjoining | lastexampercent | studename
-----|-----|-----|-----
1 | 2012-03-28 18:30:00.000000+0000 | 69.6 | Michael Storm
2 | 2013-02-26 18:30:00.000000+0000 | 72.5 | Stephen Fox

(2 rows)
cqlsh:students_profile> UPDATE Student Info SET StudName='David Sheen' WHERE RollNo=2;
InvalidRequest: Error from server: code=2200 [Invalid query] message="Undefined table student_info"
cqlsh:students_profile> UPDATE Students_profile info SET StudName='David Sheen' WHERE RollNo=2;
InvalidRequest: Error from server: code=2200 [Invalid query] message="Undefined column name studname"
cqlsh:students_profile> UPDATE Students_profile_info SET studname = 'Name='David Sheen' WHERE RollNo=2;
[2]+ Stopped ./cqlsh
bmsce@bmsce-Precision-T1700:~/cassandra/apache-cassandra-3.11.0/bin$ ./CQLSH
bash: ./CQLSH: No such file or directory
bmsce@bmsce-Precision-T1700:~/cassandra/apache-cassandra-3.11.0/bin$ ./cqlsh
Connected to Test Cluster at 127.0.0.1:9042.
[cqlsh 5.0.1 | Cassandra 3.11.4 | CQL spec 3.4.4 | Native protocol v4]
Use HELP for help.
cqlsh> USE student;
cqlsh:students> USE student_profile;

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[2]+ Stopped ./cqlsh
bmsce@bmsce-Precision-T1700:~/cassandra/apache-cassandra-3.11.0/bin$ ./CQLSH
bash: ./CQLSH: No such file or directory
bmsce@bmsce-Precision-T1700:~/cassandra/apache-cassandra-3.11.0/bin$ ./cqlsh
Connected to Test Cluster at 127.0.0.1:9042.
[cqlsh 5.0.1 | Cassandra 3.11.4 | CQL spec 3.4.4 | Native protocol v4]
Use HELP for help.
cqlsh> USE student;
cqlsh:student> USE student_profile;
InvalidRequest: Error from server: code=2200 [Invalid query] message="Keyspace 'student_profile' does not exist"
cqlsh:student> USE students_profile;
cqlsh:students_profile> UPDATE students_profile info SET studname='David Sheen' WHERE RollNo=2;
cqlsh:students_profile> SELECT FROM Students_profile_info WHERE RollNo in (1,2,3);
SyntaxException: line 1:7 no viable alternative at input 'FROM' (SELECT [FROM]...)
cqlsh:students_profile> SELECT * FROM Students_profile_info WHERE RollNo in (1,2,3);

rollno | dateofjoining | lastexampercent | studename
-----|-----|-----|-----
1 | 2012-03-28 18:30:00.000000+0000 | 69.6 | Michael Storm
2 | 2013-02-26 18:30:00.000000+0000 | 72.5 | David Sheen

(2 rows)
cqlsh:students_profile> CREATE INDEX ON Students_profile_info(studename);
cqlsh:students_profile> SELECT * FROM Students_profile_info WHERE studename='Stephen Fox';

rollno | dateofjoining | lastexampercent | studename
-----|-----|-----|-----

(0 rows)
cqlsh:students_profile> CREATE INDEX ON Students_profile_info(LastExamPercent);
cqlsh:students_profile> SELECT RollNo,LastExamPercent FROM Students_profile_info LIMIT 2;

rollno | lastexampercent
-----|-----
1 | 69.6
2 | 72.5

(2 rows)
cqlsh:students_profile> SELECT RollNo,StudName AS 'Name' FROM Students_profile_info;
SyntaxException: line 1:26 no viable alternative at input 'Name' (SELECT RollNo,StudName AS ['Nam]...)
cqlsh:students_profile> SELECT RollNo,StudName AS 'Name' FROM Students_profile_info;
SyntaxException: line 1:27 no viable alternative at input 'Name' (SELECT RollNo,StudName AS ['Nam]...)
cqlsh:students_profile> SELECT RollNo,StudName AS "Name" FROM Students_profile_info;

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Activities Terminal Mar 22 15:28 bmsce@bmsce-Precision-T1700: ~/cassandra/apache-cassandra-3.11.0/bin

cqlsh> USE student;
cqlsh:student> USE student_profile;
InvalidRequest: Error from server: code=2200 [Invalid query] message='Keyspace 'student_profile' does not exist'
cqlsh:students_profile> USE students_profile;
cqlsh:students_profile> UPDATE students_profile info SET studenname='David Sheen' WHERE RollNo=2;
cqlsh:students_profile> SELECT FROM Students_profile info WHERE RollNo in (1,2,3);
SyntaxException: line 1:7 no viable alternative at input 'FROM' (SELECT FROM);
cqlsh:students_profile> SELECT * FROM Students_profile_info WHERE RollNo in (1,2,3);

rollno | dateofjoining | lastexampercent | studenname
-----+-----+-----+-----
1 | 2012-03-28 18:30:00.000000+0000 | 69.6 | Michael Storm
2 | 2013-02-26 18:30:00.000000+0000 | 72.5 | David Sheen
(2 rows)
cqlsh:students_profile> CREATE INDEX ON Students_profile info(studenname);
cqlsh:students_profile> SELECT * FROM Students_profile_info WHERE studenname='Stephen Fox';

rollno | dateofjoining | lastexampercent | studenname
-----+-----+-----+-----
(0 rows)
cqlsh:students_profile> CREATE INDEX ON Students_profile info(LastExamPercent);
cqlsh:students_profile> SELECT RollNo,LastExamPercent FROM Students_profile_info LIMIT 2;

rollno | lastexampercent
-----+-----
1 | 69.6
2 | 72.5
(2 rows)
cqlsh:students_profile> SELECT RollNo,StudName AS 'Name' FROM Students_profile_info;
SyntaxException: line 1:26 no viable alternative at input 'Name' (SELECT RollNo,StudName AS ['Nam]...)
cqlsh:students_profile> SELECT RollNo,StudName AS 'Name' FROM Students_profile_info;
SyntaxException: line 1:27 no viable alternative at input 'Name' (SELECT RollNo,StudName AS ['Nam]...)
cqlsh:students_profile> SELECT RollNo,StudName AS "Name" FROM Students_profile_info;

rollno | Name
-----+-----
1 | Michael Storm
2 | David Sheen
(2 rows)
cqlsh:students_profile> UPDATE Student_profile info SET Studenname="Samaira",LastExamPercent=85.7 WHERE RollNo=2;
```

```
Activities Terminal Mar 22 15:28 bmsce@bmsce-Precision-T1700: ~/cassandra/apache-cassandra-3.11.0/bin

1 | Michael Storm
2 | David Sheen
(2 rows)
cqlsh:students_profile> UPDATE Student_profile_info SET Studenname="Samaira",LastExamPercent=85.7 WHERE RollNo=2;
SyntaxException: line 1:51 no viable alternative at input '.' (UPDATE Student_profile_info SET Studenname=["Samair]a"),...)
cqlsh:students_profile> UPDATE Student_profile_info SET Studenname="Samaira", LastExamPercent=85.7 WHERE RollNo=2;
SyntaxException: line 1:51 no viable alternative at input '.' (UPDATE Student_profile_info SET Studenname=["Samair]a"),...)
cqlsh:students_profile> UPDATE Student_profile_info SET Studenname="Samaira" WHERE RollNo=2;
SyntaxException: line 1:52 no viable alternative at input 'WHERE' (UPDATE Student_profile_info SET Studenname=["Samair]a" WHERE...)
cqlsh:students_profile> UPDATE Students_profile info SET Studenname="Samaira",LastExamPercent=85.7 WHERE RollNo=2;
SyntaxException: line 1:52 no viable alternative at input '.' (UPDATE Students_profile_info SET Studenname=["Samair]a"),...)
cqlsh:students_profile> UPDATE Students_profile info SET Studenname="Samaira" WHERE RollNo=2;
SyntaxException: line 1:54 no viable alternative at input 'WHERE' (UPDATE Students_profile_info SET Studenname=["Samair]a" WHERE...)
cqlsh:students_profile> UPDATE Students_profile info SET Studenname="Samaira" WHERE RollNo=2;
SyntaxException: line 1:53 no viable alternative at input 'WHERE' (UPDATE Students_profile_info SET Studenname=["Samair]a" WHERE...)
cqlsh:students_profile> UPDATE Students_profile_info SET Studenname="Samaira",LastExamPercent=85.7 WHERE RollNo=2;
InvalidRequest: Error from server: code=2200 [Invalid query] message='Undefined column name lasteampercent'
cqlsh:students_profile> UPDATE students_profile_info SET Studenname="Samaira",LastExamPercent=85.7 WHERE RollNo=2;
cqlsh:students_profile> SELECT RollNo,Studenname,LastExamPercent FROM students_profile_info where RollNo=2;

rollno | studenname | lastexampercent
-----+-----+-----
2 | Samaira | 85.7
(1 rows)
cqlsh:students_profile> DELETE LastExamPercent FROM students_profile_info WHERE RollNo=2;
cqlsh:students_profile> SELECT * FROM students_profile_info where RollNo=2;

rollno | dateofjoining | lastexampercent | studenname
-----+-----+-----+-----
2 | 2013-02-26 18:30:00.000000+0000 | null | Samaira
(1 rows)
cqlsh:students_profile> DELETE FROM students_profile_info WHERE RollNo=2;
cqlsh:students_profile> SELECT* FROM students_profile_info where RollNo=2;

rollno | dateofjoining | lastexampercent | studenname
-----+-----+-----+-----
(0 rows)
cqlsh:students_profile>
```