

WEEK 3

```
cqlsh>
cqlsh> CREATE KEYSPACE Students1 WITH REPLICATION =
... {'class':'SimpleStrategy','replication_factor':1};
cqlsh> DESCRIBE KEYSPACES;

employee  students1  system_auth          system_schema  system_views
students  system    system_distributed    system_traces  system_virtual_schema

cqlsh> SELECT * FROM system.schema_keyspaces;
InvalidRequest: Error from server: code=2200 [Invalid query] message="table schema_keyspaces does not exist"
cqlsh> SELECT * FROM system_schema_keyspaces;
InvalidRequest: Error from server: code=2200 [Invalid query] message="No keyspace has a table named system_schema_keyspaces. You can either
USE a keyspace, or explicitly specify keyspace.tablename"
cqlsh> SELECT * FROM system.Students1;
InvalidRequest: Error from server: code=2200 [Invalid query] message="table students1 does not exist"
cqlsh> SELECT * FROM system.students1;
InvalidRequest: Error from server: code=2200 [Invalid query] message="table students1 does not exist"
cqlsh> USE Students1;
cqlsh:students> CREATE TABLE Students_Info (Roll_No int PRIMARY KEY, StudName text,
... DateOfJoining timestamp, last_exam_Percent double);
cqlsh:students> DESCRIBE TABLES;

students_info
```

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cqlsh:students> DESCRIBE TABLE Students_Info;

CREATE TABLE students.students_info (
  roll_no int PRIMARY KEY,
  dateofjoining timestamp,
  last_exam_percent double,
  studname text
) WITH additional_write_policy = '99p'
  AND bloom_filter_fp_chance = 0.01
  AND caching = {'keys': 'ALL', 'rows_per_partition': 'NONE'}
  AND cdc = false
  AND comment = ''
  AND compaction = {'class': 'org.apache.cassandra.db.compaction.SizeTieredCompactionStrategy', 'max_threshold': '32', 'min_threshold': '4'}
  AND compression = {'chunk_length_in_kb': '16', 'class': 'org.apache.cassandra.io.compress.LZ4Compressor'}
  AND memtable = 'default'
  AND crc_check_chance = 1.0
  AND default_time_to_live = 0
  AND extensions = {}
  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 = 'BLOCKING'
  AND speculative_retry = '99p';
```

```

cqlsh:students> BEGIN BATCH
... INSERT INTO Students_Info(Roll_No, StudName, DateOfJoining, last_exam_Percent)
... VALUES (1,'Asha','2012-03-12',79.9)
... INSERT INTO Students_Info(Roll_No, StudName, DateOfJoining, last_exam_Percent)
... VALUES (2,'Krian','2012-03-12',89.9)
... INSERT INTO Students_Info(Roll_No, StudName, DateOfJoining, last_exam_Percent)
... VALUES (3,'Tarun','2012-03-12',78.9)
... INSERT INTO Students_Info(Roll_No, StudName, DateOfJoining, last_exam_Percent)
... VALUES (4,'Samrth','2012-03-12',90.9)
... INSERT INTO Students_Info(Roll_No, StudName, DateOfJoining, last_exam_Percent)
... VALUES (5,'Smitha','2012-03-12',67.9)
... INSERT INTO Students_Info(Roll_No, StudName, DateOfJoining, last_exam_Percent)
... VALUES (6,'Rohan','2012-03-12',56.9)
... APPLY BATCH;

```

```

cqlsh:students> SELECT * FROM Students_Info;

```

roll_no	dateofjoining	last_exam_percent	studname
5	2012-03-11 18:30:00.000000+0000	67.9	Smitha
1	2012-03-11 18:30:00.000000+0000	79.9	Asha
2	2012-03-11 18:30:00.000000+0000	89.9	Krian
4	2012-03-11 18:30:00.000000+0000	90.9	Samrth
6	2012-03-11 18:30:00.000000+0000	56.9	Rohan
3	2012-03-11 18:30:00.000000+0000	78.9	Tarun

(6 rows)

```

cqlsh:students> SELECT * FROM Students_Info WHERE Roll_No IN (1,2,3)

```

```

...
... select * from students_info where Studname= 'Asha';

```

SyntaxException: line 3:0 mismatched input 'select' expecting EOF (...IN (1,2,3)[select]...)

```

cqlsh:students> SELECT * FROM Students_Info WHERE Roll_No IN (1,2,3);

```

roll_no	dateofjoining	last_exam_percent	studname
1	2012-03-11 18:30:00.000000+0000	79.9	Asha
2	2012-03-11 18:30:00.000000+0000	89.9	Krian
3	2012-03-11 18:30:00.000000+0000	78.9	Tarun

(3 rows)

```

cqlsh:students> select * from students_info where Studname= 'Asha';

```

roll_no	dateofjoining	last_exam_percent	studname
1	2012-03-11 18:30:00.000000+0000	79.9	Asha

(1 rows)

```

cqlsh:students> CREATE INDEX ON Students_Info ( StudName);

```

InvalidRequest: Error from server: code=2200 [Invalid query] message="Index students_info_studname_idx_x_1 is a duplicate of existing index students_info_studname_idx"

```

cqlsh:students> select * from students_info where Studname= 'Asha';

```

```
cqlsh:students> select * from students_info where Studname= 'Asha';
```

roll_no	dateofjoining	last_exam_percent	studname
1	2012-03-11 18:30:00.000000+0000	79.9	Asha

(1 rows)

```
cqlsh:students> select Roll_No, StudName from students_info LIMIT 2;
```

roll_no	studname
5	Smitha
1	Asha

(2 rows)

```
cqlsh:students> Select Roll_No as "USN" from Students_info;
```

Invalid syntax at char 19

```
    Select Roll_No as "USN" from Students_info;
```

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```
cqlsh:students> Select Roll_No as USN from Students_info;
```

usn
5
1
2
4
6
3

```
cqlsh:students> UPDATE students_info SET StudName='David Sheen' WHERE Roll_No=2;
```

```
cqlsh:students> UPDATE students_info SET Roll_No=6 WHERE Roll_No=3
```

```
... ;
```

InvalidRequest: Error from server: code=2200 [Invalid query] message="PRIMARY KEY part roll_no found in SET part"

```
cqlsh:students> UPDATE students_info SET Roll_No=6 WHERE Roll_No=3;
```

InvalidRequest: Error from server: code=2200 [Invalid query] message="PRIMARY KEY part roll_no found in SET part"

```
cqlsh:students> UPDATE students_info SET Roll_No=6 WHERE StudName=Tarun;
```

SyntaxException: line 1:55 no viable alternative at input ';' (...SET Roll_No=6 WHERE StudName=[Tarun];)

```
cqlsh:students> UPDATE students_info SET Roll_No=6 WHERE StudName='Tarun';
```

InvalidRequest: Error from server: code=2200 [Invalid query] message="PRIMARY KEY part roll_no found in SET part"

```
cqlsh:students> DELETE LastExamPercent FROM students_info WHERE Roll_No=2;
```

InvalidRequest: Error from server: code=2200 [Invalid query] message="Undefined column name lastexam percent in table students.students_info"

```
cqlsh:students> DELETE last_exam_Percent FROM students_info WHERE Roll_No=2;
```

```
cqlsh:students> DELETE FROM student_info WHERE Roll_No=2;
```

InvalidRequest: Error from server: code=2200 [Invalid query] message="table student_info does not exist"