

Lab3-BDA

Create lib_info

```
Administrator: cmd - cqlsh
cqlsh:library> create table lib_info(counter_value counter, stud_id int primary key, stud_name text, book_name text, bid int, doi timestamp);
InvalidRequest: Error from server: code=2200 [Invalid query] message="Cannot mix counter and non counter columns in the same table"
cqlsh:library>
```

Using TTL

```
Administrator: cmd - cqlsh
3 | Mech | gm | 2010-02-02 18:30:00.000000+0000 | gary | P1 | 20200
(5 rows)
cqlsh:employee> select * from employee_info;

emp_id | dept_name | designation | doj | emp_name | project | salary
-----|-----|-----|-----|-----|-----|-----
1 | computer | pm | 2020-02-01 18:30:00.000000+0000 | sandy | P1 | 1200
2 | new_dept | sm | 2020-03-26 18:30:00.000000+0000 | andrius | P1 | 2200
4 | null | null | null | null | P1 | null
121 | new_dept2 | hm | 2020-04-11 18:30:00.000000+0000 | newName | P1 | 22000
3 | Mech | gm | 2010-02-02 18:30:00.000000+0000 | gary | P1 | 20200

(5 rows)
cqlsh:employee> insert into employee_info(emp_id, dept_name, designation, doj, emp_name, salary) values (400, 'Info', 'hm', '2020-04-12', 'sydneyaaaaasas', 22000) using ttl 15;
cqlsh:employee> select * from employee_info;

emp_id | dept_name | designation | doj | emp_name | project | salary
-----|-----|-----|-----|-----|-----|-----
1 | computer | pm | 2020-02-01 18:30:00.000000+0000 | sandy | P1 | 1200
2 | new_dept | sm | 2020-03-26 18:30:00.000000+0000 | andrius | P1 | 2200
4 | null | null | null | null | P1 | null
121 | new_dept2 | hm | 2020-04-11 18:30:00.000000+0000 | newName | P1 | 22000
400 | Info | hm | 2020-04-12 18:30:00.000000+0000 | sydneyaaaaasas | null | 22000
3 | Mech | gm | 2010-02-02 18:30:00.000000+0000 | gary | P1 | 20200

(6 rows)
cqlsh:employee> select * from employee_info;

emp_id | dept_name | designation | doj | emp_name | project | salary
-----|-----|-----|-----|-----|-----|-----
1 | computer | pm | 2020-02-01 18:30:00.000000+0000 | sandy | P1 | 1200
2 | new_dept | sm | 2020-03-26 18:30:00.000000+0000 | andrius | P1 | 2200
4 | null | null | null | null | P1 | null
121 | new_dept2 | hm | 2020-04-11 18:30:00.000000+0000 | newName | P1 | 22000
3 | Mech | gm | 2010-02-02 18:30:00.000000+0000 | gary | P1 | 20200

(5 rows)
cqlsh:employee>
```

New entry with emp_id 400 expires after 15 s

```
Administrator: cmd - cqlsh
cqlsh:employee> insert into employee_info(emp_id, dept_name, designation, doj, emp_name, salary) values (4, 'Info', 'hm', '2020-04-12', 'sydney', 22000) using ttl 15;
cqlsh:employee> select * from employee_info;
```

emp_id	dept_name	designation	doj	emp_name	project	salary
1	computer	pm	2020-02-01 18:30:00.000000+0000	sandy	P1	1200
2	new_dept	sm	2020-03-26 18:30:00.000000+0000	andrius	P1	2200
4	null	null		null	P1	null
121	new_dept2	hm	2020-04-11 18:30:00.000000+0000	newName	P1	22000
3	Mech	gm	2010-02-02 18:30:00.000000+0000	gary	P1	20200

(5 rows)

```
cqlsh:employee> select * from employee_info;
```

emp_id	dept_name	designation	doj	emp_name	project	salary
1	computer	pm	2020-02-01 18:30:00.000000+0000	sandy	P1	1200
2	new_dept	sm	2020-03-26 18:30:00.000000+0000	andrius	P1	2200
4	null	null		null	P1	null
121	new_dept2	hm	2020-04-11 18:30:00.000000+0000	newName	P1	22000
3	Mech	gm	2010-02-02 18:30:00.000000+0000	gary	P1	20200

(5 rows)

```
cqlsh:employee> insert into employee_info(emp_id, dept_name, designation, doj, emp_name, salary) values (400, 'Info', 'hm', '2020-04-12', 'sydneyaaaaasas', 22000) using ttl 15;
cqlsh:employee> select * from employee_info;
```

emp_id	dept_name	designation	doj	emp_name	project	salary
1	computer	pm	2020-02-01 18:30:00.000000+0000	sandy	P1	1200
2	new_dept	sm	2020-03-26 18:30:00.000000+0000	andrius	P1	2200
4	null	null		null	P1	null
121	new_dept2	hm	2020-04-11 18:30:00.000000+0000	newName	P1	22000
400	Info	hm	2020-04-11 18:30:00.000000+0000	sydneyaaaaasas	null	22000
3	Mech	gm	2010-02-02 18:30:00.000000+0000	gary	P1	20200

(6 rows)

```
cqlsh:employee> 
```

```
Administrator: cmd - cqlsh
cqlsh:employee> select * from employee_info
... ;
```

emp_id	dept_name	designation	doj	emp_name	project	salary
1	computer	pm	2020-02-01 18:30:00.000000+0000	sandy	null	1200
2	new_dept	sm	2020-03-26 18:30:00.000000+0000	andrius	null	2200
4	Info	hm	2020-04-11 18:30:00.000000+0000	sydney	null	22000
121	new_dept2	hm	2020-04-11 18:30:00.000000+0000	newName	null	22000
3	Mech	gm	2010-02-02 18:30:00.000000+0000	gary	null	20200

(5 rows)

```
cqlsh:employee> update table employee_info set project='P1' where emp_id in(1,2,4,121,3);
SyntaxException: line 1:7 no viable alternative at input 'table' (update [table]...)
cqlsh:employee> update employee_info set project='P1' where emp_id in(1,2,4,121,3);
cqlsh:employee> select * from employee_info;
```

emp_id	dept_name	designation	doj	emp_name	project	salary
1	computer	pm	2020-02-01 18:30:00.000000+0000	sandy	P1	1200
2	new_dept	sm	2020-03-26 18:30:00.000000+0000	andrius	P1	2200
4	Info	hm	2020-04-11 18:30:00.000000+0000	sydney	P1	22000
121	new_dept2	hm	2020-04-11 18:30:00.000000+0000	newName	P1	22000
3	Mech	gm	2010-02-02 18:30:00.000000+0000	gary	P1	20200

(5 rows)

```
cqlsh:employee> 
```

```
Administrator: cmd - cqlsh
cqlsh:employee> update employee_info set dept_name='new_dept' where emp_id=2;
cqlsh:employee> select * from employee_info
... ;

emp_id | dept_name | designation | doj | emp_name | salary
-----+-----+-----+-----+-----+-----
1 | computer | pm | 2020-02-01 18:30:00.000000+0000 | sandy | 1200
2 | new_dept | sm | 2020-03-26 18:30:00.000000+0000 | andrius | 2200
4 | Info | hm | 2020-04-11 18:30:00.000000+0000 | sydney | 22000
121 | Design | hm | 2020-04-11 18:30:00.000000+0000 | initial | 22000
3 | Mech | gm | 2010-02-02 18:30:00.000000+0000 | gary | 20200

(5 rows)
cqlsh:employee> update employee_info set dept_name='new_dept' where emp_id=121;
cqlsh:employee> select * from employee_info;

emp_id | dept_name | designation | doj | emp_name | salary
-----+-----+-----+-----+-----+-----
1 | computer | pm | 2020-02-01 18:30:00.000000+0000 | sandy | 1200
2 | new_dept | sm | 2020-03-26 18:30:00.000000+0000 | andrius | 2200
4 | Info | hm | 2020-04-11 18:30:00.000000+0000 | sydney | 22000
121 | new_dept | hm | 2020-04-11 18:30:00.000000+0000 | initial | 22000
3 | Mech | gm | 2010-02-02 18:30:00.000000+0000 | gary | 20200

(5 rows)
cqlsh:employee> update employee_info set dept_name='new_dept2' emp_name='newName' where emp_id=121;
SyntaxException: line 1:47 mismatched input 'emp_name' expecting K_WHERE (update employee_info set dept_name='new_dept2' [emp_name]...)
cqlsh:employee> update employee_info set dept_name='new_dept2', emp_name='newName' where emp_id=121;
cqlsh:employee> select * from employee_info;

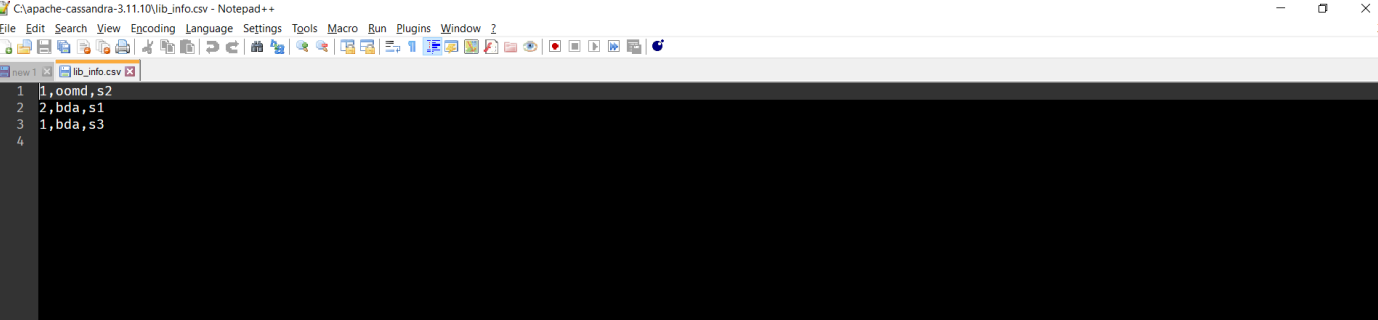
emp_id | dept_name | designation | doj | emp_name | salary
-----+-----+-----+-----+-----+-----
1 | computer | pm | 2020-02-01 18:30:00.000000+0000 | sandy | 1200
2 | new_dept | sm | 2020-03-26 18:30:00.000000+0000 | andrius | 2200
4 | Info | hm | 2020-04-11 18:30:00.000000+0000 | sydney | 22000
121 | new_dept2 | hm | 2020-04-11 18:30:00.000000+0000 | newName | 22000
3 | Mech | gm | 2010-02-02 18:30:00.000000+0000 | gary | 20200

(5 rows)
cqlsh:employee>
```

```
Administrator: cmd - cqlsh
cqlsh:employee> insert into employee_info(emp_id, dept_name, designation, doj, emp_name, salary) values (3, 'Mech', 'gm', '2010-02-31', 'gary', 20200)
... ;
InvalidRequest: Error from server: code=2200 [Invalid query] message="Unable to coerce '2010-02-31' to a formatted date (long)"
cqlsh:employee> insert into employee_info(emp_id, dept_name, designation, doj, emp_name, salary) values (3, 'Mech', 'gm', '2010-02-3', 'gary', 20200)
... ;
cqlsh:employee> begin batch
... insert into employee_info(emp_id, dept_name, designation, doj, emp_name, salary) values (2, 'Auto', 'sm', '2020-03-27', 'andrius', 2200)
... insert into employee_info(emp_id, dept_name, designation, doj, emp_name, salary) values (4, 'Info', 'hm', '2020-04-12', 'sydney', 22000)
... insert into employee_info(emp_id, dept_name, designation, doj, emp_name, salary) values (4, 'Info', 'hm', '2020-04-12', 'sydney', 52000)
... apply batch;
cqlsh:employee> select * from employee_info
... ;

emp_id | dept_name | designation | doj | emp_name | salary
-----+-----+-----+-----+-----+-----
1 | computer | pm | 2020-02-01 18:30:00.000000+0000 | sandy | 1200
2 | Auto | sm | 2020-03-26 18:30:00.000000+0000 | andrius | 2200
4 | Info | hm | 2020-04-11 18:30:00.000000+0000 | sydney | 22000
3 | Mech | gm | 2010-02-02 18:30:00.000000+0000 | gary | 20200

(4 rows)
cqlsh:employee>
```



The screenshot shows a Notepad++ window titled "C:\apache-cassandra-3.11.10\lib_info.csv - Notepad++". The menu bar includes File, Edit, Search, View, Encoding, Language, Settings, Tools, Macro, Run, Plugins, Window, and Help. The toolbar contains various icons for file operations and editing. The active tab is "lib_info.csv". The text area contains the following content:

```
1 |1,oofd,s2
2 |2,bda,s1
3 |1,bda,s3
4
```

```
Administrator: cmd - cqlsh
cqlsh:library> copy lib_info(counter_value, bname, sname) to 'C:\Users\Sumanth\Desktop';
Using 7 child processes
Can't open 'C:\\Users\\Sumanth\\Desktop' for writing: [Errno 13] Permission denied: 'C:\\Users\\Sumanth\\Desktop'
cqlsh:library>
```

```
Administrator: cmd - cqlsh
cqlsh:library> select * from lib_info;

bname | sname | counter_value
-----+-----+-----
oamd  | s2    | 1
bda   | s1    | 2
bda   | s3    | 1

(3 rows)
cqlsh:library> select sname, bname, counter_value from lib_info where sname='s1';
InvalidRequest: Error from server: code=2200 [Invalid query] message="Cannot execute this query as it might involve data filtering and thus may have unpredictable performance. If you want to execute this query despite the performance unpredictability, use ALLOW FILTERING"
cqlsh:library> allow filtering
... ;
SyntaxException: line 1:0 no viable alternative at input 'allow' ([allow]...)
cqlsh:library> select sname, bname, counter_value from lib_info where sname='s1' allow filtering;

sname | bname | counter_value
-----+-----+-----
s1    | bda   | 2

(1 rows)
cqlsh:library>
```