

BIG DATA ANALYTICS

WEEK3 ASSIGNMENT

NAME – KARTHIK S

USN – 1BM19CS070

Activities Firefox Web Browser Apr 25 15:39

Cassandra - karthiks.cs1 x Lab 3 Try It Out: Cassandra Quick Guide x Separate table directori x Cassandra - Quick Guide x +

https://katakoda.com/datastax/courses/cassandra-try-it-out/try-cql

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Terminal +

```
cqlsh> begin batch
... insert into Employee.Employee_Info (emp_id,date_of_joining,dept_name,designation,emp_name,salary) values (121,'2021-06-24','General','Helper','Narine',2000);
... apply batch;
cqlsh> select * from Employee.Employee_Info;
```

emp_id	date_of_joining	dept_name	designation	emp_name	salary
121	2021-06-24 00:00:00.000000+0000	General	Helper	Narine	2000

(1 rows)

```
cqlsh> begin batch
... insert into Employee.Employee_Info (emp_id,date_of_joining,dept_name,designation,emp_name,salary) values (2,'2021-06-04','Sales','Developer','Naresh',12000);
... insert into Employee.Employee_Info (emp_id,date_of_joining,dept_name,designation,emp_name,salary) values (1,'2021-06-03','Deployment','Manager','Karthik',15000);
... apply batch;
cqlsh> select * from Employee.Employee_Info;
```

emp_id	date_of_joining	dept_name	designation	emp_name	salary
1	2021-06-03 00:00:00.000000+0000	Deployment	Manager	Karthik	15000
2	2021-06-04 00:00:00.000000+0000	Sales	Developer	Naresh	12000
121	2021-06-24 00:00:00.000000+0000	General	Helper	Narine	2000

(3 rows)

```
cqlsh> update Employee.Employee_Info SET emp_name='Kushi',dept_name='Testing' where emp_id=121;
cqlsh> select * from Employee.Employee_Info;
```

emp_id	date_of_joining	dept_name	designation	emp_name	salary
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Cassandra - karthiks.cs1 x Lab 3 Try It Out: Cassandra Q... Separate table directori x Cassandra - Quick Guide x +

https://katacoda.com/datastax/courses/cassandra-try-it-out/try-cql

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Terminal +

Your interactive Bash Terminal.

```
$ cqlsh
Connected to Cassandra Cluster at 127.0.0.1:9042.
[cqlsh 5.0.1 | Cassandra 4.0-beta4 | CQL spec 3.4.5 | Native protocol v4]
Use HELP for help.
cqlsh>
cqlsh>
cqlsh> CREATE KEYSPACE Employee WITH replication = ('class':'SimpleStrategy','replication_factor':1);
cqlsh> Describe Keyspaces

employee  system_auth          system_schema  system_views
system    system_distributed  system_traces  system_virtual_schema

cqlsh> describe Employee

CREATE KEYSPACE employee WITH replication = ('class': 'SimpleStrategy', 'replication_factor': '1') AND durable_writes = true;
cqlsh> create table Employee.Employee_info (Emp_Id int Primary key, Emp_Name text, Designation text, Date_of_Joining timestamp,Salary
double,Dept_Name text);
cqlsh> begin batch
... insert into Employee.Employee_info (Emp_id, Emp_Name, Designation,Date_of_Joining,Date_of_Joining, Salary,Dept_Name) values (1
,'John','Manager','2021-09-22',20000,'Development');
... insert into Employee.Employee_info (Emp_id, Emp_Name, Designation,Date_of_Joining,Date_of_Joining, Salary,Dept_Name) values (2
,'Jason','Developer','2021-09-30',30000,'Production')
... insert into Employee.Employee_info (Emp_id, Emp_Name, Designation,Date_of_Joining,Date_of_Joining, Salary,Dept_Name) values (1
21,'Jack','Helper','2021-02-30',40000,'Sales')
... apply batch;
InvalidRequest: Error from server: code=2200 [Invalid query] message="Unmatched column names/values"
cqlsh> select * from Employee.Employee_info;

emp_id | date_of_joining | dept_name | designation | emp_name | salary
```

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Cassandra - karthiks.cs1 x Lab 3 Try It Out: Cassandra Q... Separate table directori x Cassandra - Quick Guide x +

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Terminal +

```
emp_id | date_of_joining | dept_name | designation | emp_name | salary
-----|-----|-----|-----|-----|-----
1      | 2021-06-03 00:00:00.000000+0000 | Deployment | Manager | Karthik | 15000
2      | 2021-06-04 00:00:00.000000+0000 | Sales     | Developer | Naresh | 12000
121    | 2021-06-24 00:00:00.000000+0000 | General   | Helper   | Narine | 2000

(3 rows)
cqlsh> update Employee.Employee_Info SET emp_name='Kushi',dept_name='Testing' where emp_id=121;
cqlsh> select * from Employee.Employee_info;

emp_id | date_of_joining | dept_name | designation | emp_name | salary
-----|-----|-----|-----|-----|-----
1      | 2021-06-03 00:00:00.000000+0000 | Deployment | Manager | Karthik | 15000
2      | 2021-06-04 00:00:00.000000+0000 | Sales     | Developer | Naresh | 12000
121    | 2021-06-24 00:00:00.000000+0000 | Testing   | Helper   | Kushi | 2000

(3 rows)
cqlsh> select * from Employee.Employee_info
...
cqlsh> Alter table Employee.Employee_info add Projects set<text>;
cqlsh> select * from Employee.Employee_info
...
cqlsh> select * from Employee.Employee_info;

emp_id | date_of_joining | dept_name | designation | emp_name | projects | salary
-----|-----|-----|-----|-----|-----|-----
1      | 2021-06-03 00:00:00.000000+0000 | Deployment | Manager | Karthik | null | 15000
2      | 2021-06-04 00:00:00.000000+0000 | Sales     | Developer | Naresh | null | 12000
121    | 2021-06-24 00:00:00.000000+0000 | Testing   | Helper   | Kushi | null | 2000
```

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Cassandra - karthiks.cs Lab 3 Try It Out: Cassandra Quick Guide

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Terminal

```
SyntaxException: line 1:77 mismatched input ')' expecting ')' (...Projects + {'ABC','SAMPLE','XYZ'}) where...
cqlsh> update Employee.Employee_info set Projects = Projects + {'ABC','SAMPLE','XYZ'} where emp_id=1;
cqlsh> select * from Employee.Employee_info;
```

emp_id	date_of_joining	dept_name	designation	emp_name	projects	salary
1	2021-06-03 00:00:00.000000+0000	Deployment	Manager	Karthik	{'ABC', 'SAMPLE', 'XYZ'}	15000
2	2021-06-04 00:00:00.000000+0000	Sales	Developer	Naresh	null	12000
121	2021-06-24 00:00:00.000000+0000	Testing	Helper	Kushi	null	2000

(3 rows)

```
cqlsh> update Employee.Employee_info set Projects = Projects + {'ABC1','SAMPLE1','XYX'} where emp_id=2;
cqlsh> update Employee.Employee_info set Projects = Projects + {'ABC2','SAMPLE2','XYA'} where emp_id=121;
cqlsh> select * from Employee.Employee_info;
```

emp_id	date_of_joining	dept_name	designation	emp_name	projects	salary
1	2021-06-03 00:00:00.000000+0000	Deployment	Manager	Karthik	{'ABC', 'SAMPLE', 'XYZ'}	15000
2	2021-06-04 00:00:00.000000+0000	Sales	Developer	Naresh	{'ABC1', 'SAMPLE1', 'XYX'}	12000
121	2021-06-24 00:00:00.000000+0000	Testing	Helper	Kushi	{'ABC2', 'SAMPLE2', 'XYA'}	2000

(3 rows)

```
cqlsh> Begin batch
...
cqlsh> insert into Employee.Employee_Info (emp_id,date_of_joining,dept_name,designation,emp_name,salary) values (12,'2021-06-04','Sales',
'Developer','Mohan',12000) using TTL 15;
cqlsh> select * from Employee.Employee_info;
```

emp_id	date_of_joining	dept_name	designation	emp_name	projects	salary
1	2021-06-03 00:00:00.000000+0000	Deployment	Manager	Karthik	{'ABC', 'SAMPLE', 'XYZ'}	15000
2	2021-06-04 00:00:00.000000+0000	Sales	Developer	Naresh	{'ABC1', 'SAMPLE1', 'XYX'}	12000
121	2021-06-24 00:00:00.000000+0000	Testing	Helper	Kushi	{'ABC2', 'SAMPLE2', 'XYA'}	2000

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Terminal

emp_id	date_of_joining	dept_name	designation	emp_name	projects	salary
1	2021-06-03 00:00:00.000000+0000	Deployment	Manager	Karthik	{'ABC', 'SAMPLE', 'XYZ'}	15000
2	2021-06-04 00:00:00.000000+0000	Sales	Developer	Naresh	{'ABC1', 'SAMPLE1', 'XYX'}	12000
121	2021-06-24 00:00:00.000000+0000	Testing	Helper	Kushi	{'ABC2', 'SAMPLE2', 'XYA'}	2000

(3 rows)

```
cqlsh> Begin batch
...
cqlsh> insert into Employee.Employee_Info (emp_id,date_of_joining,dept_name,designation,emp_name,salary) values (12,'2021-06-04','Sales',
'Developer','Mohan',12000) using TTL 15;
cqlsh> select * from Employee.Employee_info;
```

emp_id	date_of_joining	dept_name	designation	emp_name	projects	salary
1	2021-06-03 00:00:00.000000+0000	Deployment	Manager	Karthik	{'ABC', 'SAMPLE', 'XYZ'}	15000
2	2021-06-04 00:00:00.000000+0000	Sales	Developer	Naresh	{'ABC1', 'SAMPLE1', 'XYX'}	12000
121	2021-06-24 00:00:00.000000+0000	Testing	Helper	Kushi	{'ABC2', 'SAMPLE2', 'XYA'}	2000
12	2021-06-04 00:00:00.000000+0000	Sales	Developer	Mohan	null	12000

(4 rows)

```
cqlsh> select * from Employee.Employee_info;
```

emp_id	date_of_joining	dept_name	designation	emp_name	projects	salary
1	2021-06-03 00:00:00.000000+0000	Deployment	Manager	Karthik	{'ABC', 'SAMPLE', 'XYZ'}	15000
2	2021-06-04 00:00:00.000000+0000	Sales	Developer	Naresh	{'ABC1', 'SAMPLE1', 'XYX'}	12000
121	2021-06-24 00:00:00.000000+0000	Testing	Helper	Kushi	{'ABC2', 'SAMPLE2', 'XYA'}	2000

(3 rows)

```
cqlsh>
```

```
cqlsh> create table Employee.emp(Emp_Id int,Emp_name text,Designation text,Date_Of_Joining timestamp,Salary double,Dept_Name text,primary key(Emp_Id,Salary));
```

```
cqlsh> begin batch
... insert into Employee.emp(emp_id,salary,date_of_joining,dept_name,designation,emp_name)values(1,1500000.50,'2021-06-03','Deployment','Manager','Kusum');
... insert into Employee.emp(emp_id,salary,date_of_joining,dept_name,designation,emp_name)values(2,1100000.50,'2022-05-03','Development','Web Developer','Karan');
... insert into Employee.emp(emp_id,salary,date_of_joining,dept_name,designation,emp_name)values(121,1900000.50,'2022-05-03','R&D','Intern','Kia');
... apply batch;
cqlsh> select * from Employee.emp;
```

emp_id	salary	date_of_joining	dept_name	designation	emp_name
1	1.5e+06	2021-06-03 00:00:00.000000+0000	Deployment	Manager	Kusum
2	1.1e+06	2022-05-03 00:00:00.000000+0000	Development	Web Developer	Karan
121	1.9e+06	2022-05-03 00:00:00.000000+0000	R&D	Intern	Kia

```
(3 rows)
cqlsh> paging off;
Disabled Query paging.
cqlsh> select * from Employee.emp where emp_id in (1,2,121) order by salary;
```

emp_id	salary	date_of_joining	dept_name	designation	emp_name
2	1.1e+06	2022-05-03 00:00:00.000000+0000	Development	Web Developer	Karan
1	1.5e+06	2021-06-03 00:00:00.000000+0000	Deployment	Manager	Kusum
121	1.9e+06	2022-05-03 00:00:00.000000+0000	R&D	Intern	Kia

```
(3 rows)
cqlsh>
```