

1/11/25

CQ/11/25



PAGE:

DATE:

Working with Cassandra

> Create Keyspace:

```
CREATE KEYSPACE Students WITH REPLICATION  
{ 'class': 'SimpleStrategy', 'replication_factor': 1 };
```

> Describe the existing keyspaces:

```
DESCRIBE KEYSPACES;
```

> Get more details on existing keyspaces:

```
SELECT * FROM system_schema.keyspaces;
```

> Use the Keyspace "Students":

```
USE Students;
```

> To Create table (column family) by name: Students-info:

```
CREATE TABLE Students-info (Roll-No int PRIMARY KEY,  
StudName text, DateOfJoining timestamp, Last_exam_Pct  
double);
```

> Lookup the ~~names~~ ^{all} of the tables in the current Keyspace:

```
DESCRIBE TABLES;
```

> Describe the table information

```
DESCRIBE TABLE Students-info;
```


CRUD Insert:-

BEGIN BATCH

INSERT INTO Students info (Roll No, Stud Name, Date Of Joining, last_exam_percent) VALUES (1, 'Asha', '2018-03-12', 79.9)

APPLY BATCH;

> view data from the table "Students-info"

SELECT * FROM Students-info;

> view data from the "Students-info" where Roll-no Column either have 1 or 2 or 3

SELECT * FROM Students-info WHERE RollNo IN(1,2,3);

> To execute a non primary key - will throw an error
~~select * from Students-info where StudName = 'Asha';~~

> So Create an INDEX on the Column as below:
 To create an INDEX on StudName Column of the Student info column family

CREATE INDEX ON Students Info (StudName);

"Now execute the above command";

> To Specify the Number of rows returned in the output

~~select * from St~~
 select Roll-No, StudName from Students-info LIMIT 2;



> Alias for column:

```
select Roll-No as USN from Students-info;
```

> update

```
UPDATE Students-info SET StudName='David Shreen'  
where Roll-no=2;
```

"on primary key you cannot perform update operation"

> Delete

```
DELETE Last Exam Percent FROM Students-info  
WHERE Roll-No=2;
```

> Delete a Row

```
DELETE FROM Student-info WHERE RollNo=2;
```

Set collection:

```
ALTER TABLE Students-info ADD hobbies set(text);
```

List collection:

```
ALTER TABLE Students-info ADD languages list(text);
```




```
UPDATE student_info  
SET hobbies = hobbies + ' Chess, Table Tennis';  
where Roll-no = 1;
```

```
select * from students_info where RollNo = 1;
```

```
UPDATE Students_info  
SET language = language + [' Hindi , English']  
where Roll No = 1;
```

"Can remove an element from a set using the Subtraction (-) operator."

> USING A Counter :-

```
CREATE TABLE library_book (counter value counter,  
book-name varchar, stud name = 'Big data Analytics' AND  
stud-name = 'jett');
```

> Time to live :-

```
CREATE TABLE userlogin (userid int PRIMARY KEY,  
password text);
```

```
INSERT INTO userlogin (userid, password) VALUES (1,  
'ingy') USING TTL 30;
```

```
SELECT TTL(password) FROM userlogin WHERE userid=1;
```

OK
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