

Working with cassandra

① Install cassandra on ubuntu

sudo apt update

sudo apt install cassandra

② start and check cassandra status

> sudo systemctl status cassandra

③ Open cassandra shell

> cqlsh

④ create a keyspace.

cqlsh > CREATE KEYSPACE Students WITH
REPLICATION = { 'class' : 'SimpleStrategy',
'replication_factor' : 1 };

⑤ check Available Keyspaces

cqlsh > DESCRIBE ~~keyspaces~~

output :

Students	system-auth	system-schemas	system-view
system	system-distribution	system-traces	system-user-schemas

⑥ use the keyspace.

USE Students;

output : cqlsh > student >

④ Create a Table.

```
CREATE TABLE Students_Info (
  Roll-No int PRIMARY KEY,
  StudentName text,
  DateOfJoining timestamp,
  last-Exam-Percent double
);
```

output: `qqlsh : students`

⑤ Insert Data

```
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, 'Kriam', '2012-03-12', 89.9);
```

```
INSERT INTO Students_Info (Roll-No, StudName,
  DateOfJoining, last-Exam-Percent) VALUES
  (3, 'Tarun', '2012-03-12', 78.9);
```

output: `qqlsh : students`

⑥ Query All Data.

```
SELECT * FROM Students_Info;
```

output: `qqlsh :`

roll-no	StudName	date of joining	last-exam-per
1	Asha	2012-03-12 01:01:01	79.9
2	Kriam	2012-03-12 01:01:01	89.9
3	Tarun	2012-03-12 01:01:01	78.9

(10) Query specific Rows.

SELECT * FROM Students_Info WHERE Roll_No IN (1, 2);

Output:

roll_no	studname	date of join	(cgt - Exam - perc)
1	Asha	2012-03-12 01:01:0	79.9
2	Kiran	2012-03-12 01:01:0	89.9

(11) Query Using Non-Indexed Column

SELECT * FROM Students_Info WHERE StudName = 'Asha';

Output: -

roll_no	studname	date of join	(cgt - Exam - perc)
1	Asha	2012-03-12 01:01:0	79.9

12) Create an Index.

CREATE INDEX ON 'Students_Info' (StudName);

13) Update Data

UPDATE Students_Info SET StudName = 'David Sheeh' WHERE Roll_No = 2;

Output: - cglsh: Students

14) Update primary key.

UPDATE Students_Info SET rollno = 6 WHERE rollno = 2;

15) Delete value

~~DELETE students_info SET StudName = 'David
Sheen' WHERE RollNO = 2;~~

DELETE LastExamPercent FROM students_info
WHERE RollNO = 2;

16) Delete Row

DELETE FROM student_info WHERE RollNO = 2;

17) Set Collection

ALTER TABLE student_info ADD hobbies set
(text)

{ set - order of element no matters
list : order of element matters }

18) UPDATE student_info

SET language = language + ['Hindi', 'English']
WHERE RollNO = 1;

~~18~~
11/11/25