Working with Cassandra

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

Describe the existing Keyspaces:

SELECT * FROM system.schema_keyspaces

use the keyspace "Students":

USE Students;

To create table (column family) by name Student_Info:

CREATE TABLE Students_Info (Roll_No int PRIMARY KEY, StudName text, DateOffoining timestamp, last_exam_Percent double);

Lookup the names of all tables in the current keyspaces DESCRIBE TABLES;

Describe the table information

DESCRIBE TABLE <Table_Name>;

CRUD

Insert:

IBEON NATCH
INSERT INTO Studens, InfoRoll No., StudNume, DateOffoining, last_exam_Percent)
VALUES (1/Asha/2012-03-12/79.9)
INSERT INTO Students, InfoRoll No., StudNume, DateOffoining, last_exam_Percent)
VALUES (1/Asha/2012-03-12/39.9)
INSERT INTO Students, InfoRoll No., StudNume, DateOffoining, last_exam_Percent)
VALUES (1/Asha/2012-03-12/39.9)
INSERT INTO Students, InfoRoll No., StudNume, DateOffoining, last_exam_Percent)
VALUES (1/Asha/2012-03-12/39.9)
INSERT INTO Students, InfoRoll No., StudNume, DateOffoining, last_exam_Percent)
VALUES (1/Asha/2012-03-12/3-7)

SELECT * FROM Students_Info;

View data from the table "Students_Info" where RoolNo column either has a value 1 or 2 or 3

SELECT * FROM Students_Info WHERE Roll_No 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 Students_Info column family

CREATE INDEX ON Students_Info (StudName);

Now execute the query based on the INDEXED Column: select * from students_info where Studname= 'Asha';

To specify the number of rows retured in the output select Roll_No, StudName from students_info LIMIT 2;

Alias for Column:

Select Roll_No as "USN" from Students_info

UPDATE students info SET StudName='David Sheen' WHERE RollNo=2;

UPDATE students_info SET rollno=6 WHERE rollno=3;

DELETE DELETE LastExamPercent FROM students_info WHERE RollNo=2;

Delete a Row DELETE FROM student_info WHERE RollNo=2;

Set Collection
A column of type set consists of unordered unique values. However, when the column is queried, it returns, it returns the values in sorted order. For example, for text values, it sorts in alphabetical order

ALTER TABLE students_info ADD hobbies set<text>

List Collection
When the order of elements matter, one should go for a list collection
ALTER TABLE students_info ADD language list<text>;

UPDATE students_info SET hobbies=hobbies+{'Chess,Table Tennis'} WHERE RollNo=1;

SELECt * from students_info WHERE RollNo=1;

UPDATE students_info SET langusge=language+[Hindi,English'] WHERE RollNo=1;

Note: You can remove an element from a set using the subtraction(-) operator

USING A COUNTER

A counter is a special column that is changed in increments. For example, we may need a counter column to count the number of times a particular book is issued from the library bythe student.

CREATE TABLE library_book(counter_value counter, book_name varchar, stud_name varchar, PRIMARY KEY(book_name,stud_name));

Load data into the counter column

UPDATE library_book SET counetr value=couner_vale+1 WHERE book_name='Big data Analytics' AND stud_name='fect';

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

INSERT INTO userlogin(userid, password) VALUES (L'infv') USING TTL 30: SELECT TTL(password) FROM userlogin WHERE userid=1;

IMPORT and EXPORT

 $COPY\ elearning lists (id, course_order, course_id, course owner, title)\ TO\ 'd: \ 'elearning lists. csv';$

 $COPY\ elearning lists (id, course_order, course_id, course owner, title)\ FROM\ 'd: \ 'elearning lists, csv';$

COPY persons(id,fname,Inmae)FROM STDIN;

Export to STDOUT

COPY elearninglists(id,course_order, course_id,courseowner,title) TO STDOUT;

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