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| **DOCUMENT CQL CASSANDRA** |
| GEM VIỆT NAM |

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# INTRODUCE

Detail CQL command for Cassandra database. We focus into query all, query with condition.

NOTE: Document used for Cassandra 2.2 & later

# DESCRIPTION

Use database cassandra. With table post:

CREATE TABLE post ( author\_id uuid, date\_created timestamp, post\_id uuid, content text, date\_updated timestamp, images set<uuid>, location frozen **<**location>, publicity text, videos set<uuid>, PRIMARY KEY (author\_id, date\_created, post\_id)) WITH CLUSTERING ORDER BY (date\_created DESC,post\_id ASC) AND comment='' AND read\_repair\_chance=0 AND dclocal\_read\_repair\_chance=0.1 AND gc\_grace\_seconds=864000 AND bloom\_filter\_fp\_chance=0.01 AND compaction={ 'class':'org.apache.cassandra.db.compaction.SizeTieredCompactionStrategy', 'max\_threshold':'32', 'min\_threshold':'4' } AND compression={ 'chunk\_length\_in\_kb':'64', 'class':'org.apache.cassandra.io.compress.LZ4Compressor' } AND caching={ 'keys':'ALL', 'rows\_per\_partition':'NONE' } AND default\_time\_to\_live=0 AND id='96e862e1-4ff6-11e6-b09e-319b39196872' AND min\_index\_interval=128 AND max\_index\_interval=2048 AND memtable\_flush\_period\_in\_ms=0 AND speculative\_retry='99PERCENTILE';

With table rank\_by\_year\_and\_name

**CREATE** **TABLE** hocvalam.rank\_by\_year\_and\_name (

race\_year int,

race\_name text,

cyclist\_name text,

rank int,

**PRIMARY** **KEY** ((race\_year, race\_name), rank) );

A – View all:

* CQL command all:

select \* from hocvalam.post

* CQL command with column selected

select images, author\_id from hocvalam.post;

**Note: As Mysql, When Cassandra select column, that column wil be shown**

B - Query with condition

* CQL command where:

select images, author\_id from hocvalam.post where post\_id = caa6cec6-eebb-4fdf-b2cd-6c46a0205abf;

* CQL command where and:

select images, author\_id from hocvalam.post where post\_id = caa6cec6-eebb-4fdf-b2cd-6c46a0205abf AND author\_id=f316527a-b34e-4329-91ce-1935977959a5;

* Result with json when query:

select JSON images, author\_id from hocvalam.post where post\_id = caa6cec6-eebb-4fdf-b2cd-6c46a0205abf;

* CQL command query with limit:

select \* from hocvalam.post LIMIT 2;

Note: Cassandra không có offset

* CQL command query with order by (only supported interger)

select \* from hocvalam.post ORDER BY points ASC;

* CQL command query with condition like

SELECT \* FROM hocvalam.post WHERE content LIKE '%Tôi%';

Trước khi thực hiện các truy vấn sau, tạo keyspace mới và các table trong keyspace này.

* CQL command query where in

**SELECT** \* **FROM** hocvalam.cyclist\_cat\_pts **WHERE** category **IN** ('Time-trial', 'Sprint') **ORDER** **BY** id **DESC**;

* CQL command query using multiple clustering columns

**SELECT** \* **FROM** hocvalam.calendar **WHERE** race\_id **IN** (100, 101, 102) **AND** (race\_start\_date, race\_end\_date) **IN** (('2015-05-09','2015-05-31'),('2015-05-06', '2015-05-31'));