

Microsoft Windows [Version 10.0.22631.3447]
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C:\Users\rendi>cassandra

Detected powershell execution permissions. Running with enhanced startup scripts.

WARNING! Automatic page file configuration detected.
It is recommended that you disable swap when running Cassandra
for performance and stability reasons.

C:\Users\rendi>CompilerOracle: dontinline org/apache/cassandra/db/Columns\$Serializer.deserializeLargeSubset (Lorg/apache/cassandra/io/util/DataInputPlus;Lorg/apache/cassandra/db/Columns;I)Lorg/apache/cassandra/db/Columns;
CompilerOracle: dontinline org/apache/cassandra/db/Columns\$Serializer.serializeLargeSubset (Ljava/util/Collection;ILorg/apache/cassandra/db/Columns;ILorg/apache/cassandra/io/util/DataOutputPlus;)V
CompilerOracle: dontinline org/apache/cassandra/db/Columns\$Serializer.serializeLargeSubsetSize (Ljava/util/Collection;ILorg/apache/cassandra/db/Columns;I)I
CompilerOracle: dontinline org/apache/cassandra/db/commitlog/AbstractCommitLogSegmentManager.advanceAllocatingFrom (Lorg/apache/cassandra/db/commitlog/CommitLogSegment;)V
CompilerOracle: dontinline org/apache/cassandra/db/transform/BaseIterator.tryGetMoreContents ()Z
CompilerOracle: dontinline org/apache/cassandra/db/transform/StoppingTransformation.stop ()V
CompilerOracle: dontinline org/apache/cassandra/db/transform/StoppingTransformation.stopInPartition ()V
CompilerOracle: dontinline org/apache/cassandra/io/util/BufferedDataOutputStreamPlus.doFlush (I)V
CompilerOracle: dontinline org/apache/cassandra/io/util/BufferedDataOutputStreamPlus.writeExcessSlow ()V
CompilerOracle: dontinline org/apache/cassandra/io/util/BufferedDataOutputStreamPlus.writeSlow (JI)V
CompilerOracle: dontinline org/apache/cassandra/io/util/RebufferingInputStream.readPrimitiveSlowly (I)J
CompilerOracle: inline org/apache/cassandra/db/rows/UnfilteredSerializer.serializeRowBody (Lorg/apache/cassandra/db/rows/Row;ILorg/apache/cassandra/db/SerializationHeader;Lorg/apache/cassandra/io/util/DataOutputPlus;)V
CompilerOracle: inline org/apache/cassandra/io/util/Memory.checkBounds (JJ)V
CompilerOracle: inline org/apache/cassandra/io/util/SafeMemory.checkBounds (JJ)V
CompilerOracle: inline org/apache/cassandra/utils/AsymmetricOrdering.selectBoundary (Lorg/apache/cassandra/utils/AsymmetricOrdering/Op;II)I
CompilerOracle: inline org/apache/cassandra/utils/AsymmetricOrdering.strictnessOfLessThan (Lorg/apache/cassandra/utils/AsymmetricOrdering/Op;)I
CompilerOracle: inline org/apache/cassandra/utils/BloomFilter.indexes (Lorg/apache/cassandra/utils/IFilter/FilterKey;)[J
CompilerOracle: inline org/apache/cassandra/utils/BloomFilter.setIndexes (JJIJ[J)V
CompilerOracle: inline org/apache/cassandra/utils/ByteBufferUtil.compare (Ljava/nio/ByteBuffer;[B)I
CompilerOracle: inline org/apache/cassandra/utils/ByteBufferUtil.compare ([BLjava/nio/ByteBuffer;)I
CompilerOracle: inline org/apache/cassandra/utils/ByteBufferUtil.compareUnsigned (Ljava/nio/ByteBuffer;Ljava/nio/ByteBuffer;)I
CompilerOracle: inline org/apache/cassandra/utils/FastByteOperations\$UnsafeOperations.compareTo (Ljava/lang/Object;JILjava/lang/Object;JI)I



Command Prompt - cqlsh



C:\Users\rendi>cqlsh

WARNING: console codepage must be set to cp65001 to support utf-8 encoding on Windows platforms.
If you experience encoding problems, change your console codepage with 'chcp 65001' before starting cqlsh.

Connected to Test Cluster at 127.0.0.1:9042.

[cqlsh 5.0.1 | Cassandra 3.11.4 | CQL spec 3.4.4 | Native protocol v4]

Use HELP for help.

cqlsh> |

```
cqlsh> CREATE KEYSPACE IF NOT EXISTS university
      . . . WITH replication = {'class': 'SimpleStrategy', 'replication_factor': 1};
```

```
cqlsh> CREATE TABLE IF NOT EXISTS university.students (  
    ...     student_id INT PRIMARY KEY,  
    ...     name TEXT,  
    ...     age INT,  
    ...     major TEXT  
    ... );
```

```
cqlsh> CREATE TABLE IF NOT EXISTS university.professors (  
...     professor_id INT PRIMARY KEY,  
...     name TEXT,  
...     department TEXT  
... );
```

```
cqlsh>  
cqlsh> CREATE TABLE IF NOT EXISTS university.courses (  
...     course_id INT PRIMARY KEY,  
...     name TEXT,  
...     professor_id INT,  
...     department TEXT  
... );
```

```
cqlsh>  
cqlsh> CREATE TABLE IF NOT EXISTS university.departments (  
...     department_id INT PRIMARY KEY,  
...     name TEXT,  
...     head_professor_id INT  
... );
```

```
cqlsh>  
cqlsh> CREATE TABLE IF NOT EXISTS university.grades (  
...     student_id INT,  
...     course_id INT,  
...     grade TEXT,  
...     PRIMARY KEY (student_id, course_id)  
... );
```

```
cqlsh> DESCRIBE KEYSPACES;
```

university	system	system_traces
system_auth	system_distributed	system_schema

```
cqlsh> USE university;
```

```
cqlsh:university> DESCRIBE TABLES;
```

students	professors	grades	departments	courses
----------	------------	--------	-------------	---------

```
cqlsh:university> DESCRIBE TABLE students;
```

```
CREATE TABLE university.students (  
    student_id int PRIMARY KEY,  
    age int,  
    major text,  
    name text  
) WITH bloom_filter_fp_chance = 0.01  
    AND caching = {'keys': 'ALL', 'rows_per_partition': 'NONE'}  
    AND comment = ''  
    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 crc_check_chance = 1.0  
    AND dclocal_read_repair_chance = 0.1  
    AND default_time_to_live = 0  
    AND gc_grace_seconds = 864000  
    AND max_index_interval = 2048  
    AND memtable_flush_period_in_ms = 0  
    AND min_index_interval = 128  
    AND read_repair_chance = 0.0  
    AND speculative_retry = '99PERCENTILE';
```

```
cqlsh:university> INSERT INTO university.students (student_id, name, age, major) VALUES (1, 'John Doe', 22, 'Computer Science');
cqlsh:university> INSERT INTO university.students (student_id, name, age, major) VALUES (2, 'Jane Smith', 21, 'Engineering');
cqlsh:university> INSERT INTO university.students (student_id, name, age, major) VALUES (3, 'Alice Johnson', 23, 'Mathematics');
```



```
cqlsh:university> cqlsh:university> SELECT * FROM university.students WHERE student_id = 1;
```

student_id	age	major	name
1	22	Computer Science	John Doe

```
(1 rows)
```

```
cqlsh:university> CREATE TABLE IF NOT EXISTS university.sessions (  
    ...     session_id UUID PRIMARY KEY,  
    ...     start_time TIMEUUID,  
    ...     end_time TIMEUUID,  
    ...     description TEXT  
    ... );
```

```
cqlsh:university> SELECT * FROM university.students;
```

student_id	age	major	name
1	22	Computer Science	John Doe
2	21	Engineering	Jane Smith
3	23	Mathematics	Alice Johnson

```
(3 rows)
```

```
cqlsh:university> UPDATE university.students SET age = 25 WHERE student_id = 1;
cqlsh:university> UPDATE university.students SET major = 'Computer Engineering' WHERE student_id = 2;
cqlsh:university> UPDATE university.students SET name = 'Rendika Nurhartanto Suharto' WHERE student_id = 3;
cqlsh:university> SELECT * FROM university.students;
```

student_id	age	major	name
1	25	Computer Science	John Doe
2	21	Computer Engineering	Jane Smith
3	23	Mathematics	Rendika Nurhartanto Suharto

(3 rows)