## **CQL-JAVA SURVEY**

## **Create keyspace**

```
http://docs.datastax.com/en/cql/3.0/cql/cql_reference/create_keyspace r.html
CREATE ( KEYSPACE | SCHEMA ) keyspace_name WITH REPLICATION = map AND DURAB
LE_WRITES = ( true | false )
private void createKeyspace(String key) { // create database
              session.execute("CREATE KEYSPACE IF NOT EXISTS WITH replication " +
                        "= {'class':'SimpleStrategy', 'replication_factor':3};");
// put keyspace's name in blank.
Use keyspace
private void useKeySpace(String key) {
              session = cluster.connect(key);
}
Create table in keyspace
http://docs.datastax.com/en/cql/3.0/cql/cql_reference/create_table_r.html
CREATE TABLE keyspace_name.table_name(column_definition,column_definition,...) WITH pro
perty AND property ...
API Example:
private void createTable() {
              String sql = String
                            .format("CREATE TABLE %s.teacher (id bigint PRIMARY KEY,name
text, title text, courses list<br/>bigint>)",
                                          keyspaceName);
              System.out.println(sql);
              CassandraConnection conn = pool.getConnection();
              try {
                     conn.execute(sql);
              } finally {
                     conn.close();
       }
```

```
Alter table
http://docs.datastax.com/en/cql/3.0/cql/cql reference/alter table r.html
ALTER TABLE keyspace_name.table_name instruction
public void alterTableDemo() {
             System.out.println("---Altering table----");
              session.execute("ALTER TABLE demo.songs DROP data");
}
Drop table
http://docs.datastax.com/en/cql/3.0/cql/cql_reference/drop_table_r.html
DROP TABLE keyspace_name.table_name
private void dropTable() {
              String sql = String.format("DROP TABLE %s.teacher", keyspaceName);
              System.out.println(sql);
              CassandraConnection conn = pool.getConnection();
              try {
                    conn.execute(sql);
             } finally {
                    conn.close();
             }
      }
Close
public void close() {
             session.close();
             cluster.close();
}
Insert item
http://docs.datastax.com/en/cql/3.0/cql/cql_reference/insert_r.html
INSERT INTO keyspace_name.table_name ( column_name, column_name...) VALUES (
 value, value ... ) USING option AND option
private void insert(Teacher obj) {
             String sql = String
                            .format("INSERT INTO %s.teacher(id,name,title,courses) VALUES
(?,?,?,?)",
                                          keyspaceName);
              System.out.println(sql);
```

CassandraConnection conn = pool.getConnection();

```
try {
                     PreparedStatement ps = conn.prepare(sql);
                     System.out.println(ps);
                     BoundStatement bs = ps.bind(obj.getId(), obj.getName(), obj.getTitle(),
obj.getCourses());
                     conn.execute(bs);
              } finally {
                     conn.close();
              }
       }
Select data contains xx
http://docs.datastax.com/en/cql/3.0/cql/cql reference/select r.html
SELECT select_expression FROM keyspace_name.table_name WHERE relation AND re
lation ... ORDER BY ( clustering_column ( ASC | DESC )...) LIMIT n ALLOW FIL
TERING
private List<Teacher> selectAll() {
              String sql = String.format("SELECT * FROM %s.teacher", keyspaceName);
              System.out.println(sql);
              CassandraConnection conn = pool.getConnection();
              List<Teacher> result = new ArrayList<Teacher>();
              try {
                     ResultSet rs = conn.execute(sql);
                     for (Row row : rs) {
                            Teacher obj = new Teacher();
                            obj.setId(row.getLong("id"));
                             obj.setName(row.getString("name"));
                             obj.setTitle(row.getString("title"));
                             obj.setCourses(row.getList("courses", Long.class));
                             result.add(obj);
              } finally {
                     conn.close();
              return result;
private List<Teacher> selectById(Long id) {
              if (null == id) {
                     return null;
              String sql = String.format("SELECT * FROM %s.teacher WHERE id = ?",
keyspaceName);
              System.out.println(sql);
```

## Select data where xx

or

```
BoundStatement bindStatement =
session.prepare(
"select * from mykeyspace.tablename where a=? and b=?")
.bind("I", "2");
session.execute(bindStatement);
```

or

PreparedStatement prepareStatement =

```
"selscion.prepare(
"select * from mykeyspace.tablename where a=? and b=?");
BoundStatement bindStatement =
    new BoundStatement(prepareStatement).bind("I", "2");
session.execute(bindStatement);
```

## **Delete item**

http://docs.datastax.com/en/cql/3.0/cql/cql\_reference/delete\_r.html

DELETE column\_name, ... | ( column\_name term ) FROM keyspace\_name.table\_nam e USING TIMESTAMP integer WHERE row\_specification

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