Atitit sql query list array embed sqlite

Atitit hi dev eff topic dsl query coll embed db

Atitit dsl query coll in mem list

# **Spel ognl ..but not fun supportn  ,and group by fun...**

Jdk8 supprt grp fun..but the dsl need complier

# **Add list to embed db ,then use sql query...**

Sqlite ,support json\_extrace  good

Embed mysql ok...but trouble   ,need conn as cs mode

Counchdb  has query dsl,but is json ,some long...abit long..

H2  not support xml,json query fun...giveup..

Db4o  no query dsl

# **Sqlite +dbutil+json udf**

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Github D:\2wksbs\minicodePrj

**package** miniCodePrjPkg;

**import** java.util.List;

**import** java.util.Map;

**import** org.apache.commons.dbutils.QueryRunner;

**import** org.apache.commons.dbutils.handlers.MapListHandler;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.SQLException;

**import** java.sql.Statement;

**import** com.fasterxml.jackson.core.JsonProcessingException;

**import** com.fasterxml.jackson.databind.ObjectMapper;

**import** com.google.common.collect.ImmutableList;

**import** com.google.common.collect.ImmutableMap;

**import** com.google.common.collect.Lists;

**import** com.google.common.collect.Maps;

//import com.wix.mysql.EmbeddedMysql;

//

//import static com.wix.mysql.EmbeddedMysql.anEmbeddedMysql;

//import static com.wix.mysql.ScriptResolver.classPathScript;

//import static com.wix.mysql.distribution.Version.v5\_7\_latest;

**public** **class** DslQueryCollList {

**public** **static** **void** main(String[] args) **throws** Exception {

// apache comm coll cant ,only array is ok..cant json\_object eff

// Map m=Maps.

Map myMap = Maps.*newHashMap*(ImmutableMap.*of*("name", 999999999, "age", 22));

Map myMap2 = Maps.*newHashMap*(ImmutableMap.*of*("name", 8888888, "age", 33));

List li = **new** ImmutableList.Builder().add(myMap).add(myMap2).build();

System.***out***.println(li);

// /db/xx.sql

// EmbeddedMysql mysqld = anEmbeddedMysql(v5\_7\_latest)

//     .addSchema("aschema", classPathScript("iniListCache.sql"))

//     .start();

// this just start..and u need a cliednt as common to conn..looks trouble than

// sqlite

String sql = " json\_extract(jsonfld,'$.age')>30";

List<Map<String, Object>> query = *queryList*(sql, li);

System.***out***.println(query);

// run.query(conn, sql, rsh)

}

**private** **static** List<Map<String, Object>> queryList(String sql\_query, List li)

**throws** ClassNotFoundException, SQLException, JsonProcessingException {

sql\_query="SELECT \* FROM sys\_data where "+sql\_query;

String sql = **null**;

Class.*forName*("org.sqlite.JDBC");

Connection c = DriverManager.*getConnection*("jdbc:sqlite:test.db");

Statement stmt = c.createStatement();

String sql2 = "drop TABLE sys\_data ";

*exeUpdateSafe*(stmt, sql2);

sql2 = "CREATE TABLE sys\_data (jsonfld json  )";

*exeUpdateSafe*(stmt, sql2);

// insert into facts values(json\_object("mascot", "Our mascot is a dolphin name

// sakila"));

//

**for** (Object object : li) {

String jsonstr = **new** ObjectMapper().writeValueAsString(object);

sql = "insert into sys\_data values('" + jsonstr + "');";

// sql = "insert into sys\_data values('{\"id\":\"19\", \"name\":\"Lida\"}');";

*exeUpdateSafe*(stmt, sql);

}

//sql = "SELECT json\_extract(jsonfld,'$.name') as name1 FROM sys\_data limit 1;";

// System.out.println(sql);

QueryRunner run = **new** QueryRunner();

// maphandler scare\_handler

System.***out***.println(sql\_query);

List<Map<String, Object>> query = run.query(c, sql\_query, **new** MapListHandler());

System.***out***.println(query);

List li9=Lists.*newArrayList*();

**for** (Map<String, Object> map : query) {

li9.add(map.get("jsonfld"));

}

**return** li9;

}

**private** **static** **void** exeUpdateSafe(Statement stmt, String sql2) **throws** SQLException {

**try** {

System.***out***.println(sql2);

System.***out***.println(stmt.executeUpdate(sql2));

} **catch** (Exception e) {

e.printStackTrace();

}

}

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String sql = "insert into sys\_data values('{\"id\":\"19\", \"name\":\"Lida\"}');";

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