

TAJO-220

hyunsik

2013-10-01

# Contents

# Chapter 1

## Root issue TAJO-220

### 1.1 Summary

Implement catalog dump feature

### 1.2 Description

The current catalog does not support backup and restore feature. Catalog dump feature will print out all tables and others included in catalog as Tajo DDL statements (i.e., SQL) via stdout. It can also be stored as a file via shell redirection.

Also, we need a script to call catalog dump feature in a convenient way as follows:

```
1 $ bin/tajo_dump [table name or db name] > tajo_backup.sql
```

### 1.3 Attachments

1. [TAJO-220\\_2.patch](#)
2. [TAJO-220.patch](#)

### 1.4 Commits

1. Commit **b9baf52** by **Hyunsik Choi** (2013-10-04): TAJO-220: Implement catalog dump feature. (hyunsik)

### 1.5 Comments

1. **hyunsik**: I've uploaded the patch. After this patch, users can backup the tajo catalog to a sql dump file as follows:

```
1 $ bin/tajo_dump customer > table_backup.sql
2 $ cat table_backup.sql
3 -- Tajo database dump
4 -- Dump date: 10/04/2013 16:28:03
```

```

5  --
6  --
7  --
8  -- Name: customer; Type: TABLE; Storage: CSV
9  -- Path: file:/home/hyunsik/tpch/customer
10 --
11 CREATE EXTERNAL TABLE customer (c_custkey INT8, c_name TEXT, c_address TEXT,
    c_nationkey INT8, c_phone TEXT, c_acctbal FLOAT8, c_mktsegment TEXT, c_comment
    TEXT) USING CSV LOCATION 'file:/home/hyunsik/tpch/customer';

```

You can also restore the catalog from this sql dump as follows:

```

1  $ bin/tsql -f table_backup.sql

```

If you use an option '-a', tajo\_dump will dump all table DDLs.

```

1  $ bin/tajo_dump -a > all_backup.sql

```

2. **jhkim:** hyunsik,  
When I build the project, there are missing license.
3. **hyunsik:** Thank you for your comments. I've handled the missing license problem.
4. **jhkim:** +1Looks great for me. I've verified 'mvn clean install'.
5. **hyunsik:** Thank you for the review. I've just committed the patch to master branch.
6. **hudson:** FAILURE: Integrated in Tajo-trunk-postcommit #495 (See [<https://builds.apache.org/job/Tajo-trunk-postcommit/495/>])  
TAJO-220: Implement catalog dump feature. (hyunsik) (hyunsik: <https://git-wip-us.apache.org/repos/asf?p=incubator-tajo.git&a=commit&h=b9baf526f59bf668ddd9a80e53afd8360a10a6e8>)  
 \* tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/cli/TajoCli.java  
 \* CHANGES.txt  
 \* tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/client/TajoDump.java  
 \* tajo-core/tajo-core-backend/src/main/java/org/apache/tajo/client/TajoClient.java  
 \* pom.xml  
 \* tajo-catalog/tajo-catalog-common/src/test/java/org/apache/tajo/catalog/TestDDLBuilder.java  
 \* tajo-catalog/tajo-catalog-common/src/main/java/org/apache/tajo/catalog/Options.java  
 \* tajo-core/tajo-core-backend/src/test/results/testBuildDDL.result  
 \* tajo-core/tajo-core-backend/src/main/antlr4/org/apache/tajo/engine/parser/SQLLexer.g4  
 \* tajo-dist/src/main/bin/tajo\_dump  
 \* tajo-catalog/tajo-catalog-common/src/main/java/org/apache/tajo/catalog/DDLBuilder.java  
 \* tajo-dist/src/main/bin/tajo

## 1.6 Pull requests

No pull requests