TAJO-2186

hyunsik

2017-12-03

Contents

Chapter 1

Root issue TAJO-2186

1.1 Summary

 ${\it TestResultSet.testDateTimeType\ fails\ in\ UTC\ timezone}$

1.2 Description

Please see this travis log. TestResultSet.testDateTimeType failed. I looked into this issue. I found that this test fails if the timezone is UTC. You can reproduce as follows:

```
$ cd tajo-jdbc
$ export TZ=UTC
$ mvn test
...
2017-12-03 10:05:09,386 INFO: org.apache.tajo.catalog.store.DerbyStore (shutdown(75))
- Shutdown database
Results :
Failed tests:
  TestResultSet.testDateTimeType:243 expected: java.sql.Time<23:00:00> but
was: java.sql.Time<23:00:00>
```

1.3 Attachments

No attachments

1.4 Comments

1. hyunsik: Please see some part of testDateTimeType test

```
// assert with timezone
2
         // Current timezone + 1 hour
4
         TimeZone tz = TimeZone.getDefault();
         tz.setRawOffset(tz.getRawOffset() + (int) TimeUnit.HOURS.toMillis(1));
10
11
         Calendar cal = Calendar.getInstance(tz);
12
13
         assertEquals(tz.getRawOffset(), cal.getTimeZone().getRawOffset());
14
16
17
         {\tt assertEquals(Time.valueOf("23:00:00"), res.getTime(1, cal)); // <---- Here}
```

See the last line. A Time object contains a calander object, and the calanedar object is used for equals(). $\{\{Time.valueOf()\}\}\$ internally uses Timezone.getDefault(), but $\{\{res.getTime()\}\}$ uses a timezone derived from a given calendar object. That's why it causes this failure in some timezone.

2. jhkim: Thanks for your prepare work

{{Time}} class extends {{Date}} class, so it should consider a date.

I'll fix invalid unit case

3. hyunsik: [~jhkim] Thank you for taking this issue.