

git_comments:**git_commits:**

1. **summary:** [SPARK-7345][SQL] Spark cannot detect renamed columns using JDBC connector
message: [SPARK-7345][SQL] Spark cannot detect renamed columns using JDBC connector Issue appears when one tries to create DataFrame using `sqlContext.load("jdbc"...)` statement when "dbtable" contains query with renamed columns. If original column is used in SQL query once the resulting DataFrame will contain non-renamed column. If original column is used in SQL query several times with different aliases, `sqlContext.load` will fail. Original implementation of `JDBCRDD.resolveTable` uses `getColumnName` to detect column names in RDD schema. Suggested implementation uses `getColumnLabel` to handle column renames in SQL statement which is aware of SQL "AS" statement. Readings: <http://stackoverflow.com/questions/4271152/getcolumnlabel-vs-getcolumnname> <http://stackoverflow.com/questions/12259829/jdbc-getcolumnname-getcolumnlabel-db2> Official documentation unfortunately a bit misleading in definition of "suggested title" purpose however clearly defines behavior of AS keyword in SQL statement. <http://docs.oracle.com/javase/7/docs/api/java/sql/ResultSetMetaData.html> `getColumnLabel` - Gets the designated column's suggested title for use in printouts and displays. The suggested title is usually specified by the SQL AS clause. If a SQL AS is not specified, the value returned from `getColumnLabel` will be the same as the value returned by the `getColumnName` method. Author: Oleg Sidorkin <oleg.sidorkin@gmail.com> Closes #6032 from osidorkin/master and squashes the following commits: 10fc44b [Oleg Sidorkin] [SPARK-7345][SQL] Regression test for JDBC Suite (resolved scala style test error) 2aaf6f7 [Oleg Sidorkin] [SPARK-7345][SQL] Regression test for JDBC Suite (renamed fields in JDBC query) b7d5b22 [Oleg Sidorkin] [SPARK-7345][SQL] Regression test for JDBC Suite 09559a0 [Oleg Sidorkin] [SPARK-7345][SQL] Spark cannot detect renamed columns using JDBC connector (cherry picked from commit d7a37bc123389fb0828eefb92659c6d9cb3460) Signed-off-by: Reynold Xin <rxin@databricks.com>

github_issues:**github_issues_comments:****github_pulls:**

1. **title:** [SPARK-7345][SQL] Spark cannot detect renamed columns using JDBC connector
body: Issue appears when one tries to create DataFrame using `sqlContext.load("jdbc"...)` statement when "dbtable" contains query with renamed columns. If original column is used in SQL query once the resulting DataFrame will contain non-renamed column. If original column is used in SQL query several times with different aliases, `sqlContext.load` will fail. Original implementation of `JDBCRDD.resolveTable` uses `getColumnName` to detect column names in RDD schema. Suggested implementation uses `getColumnLabel` to handle column renames in SQL statement which is aware of SQL "AS" statement. Readings: <http://stackoverflow.com/questions/4271152/getcolumnlabel-vs-getcolumnname> <http://stackoverflow.com/questions/12259829/jdbc-getcolumnname-getcolumnlabel-db2> Official documentation unfortunately a bit misleading in definition of "suggested title" purpose however clearly defines behavior of AS keyword in SQL statement. <http://docs.oracle.com/javase/7/docs/api/java/sql/ResultSetMetaData.html> `getColumnLabel` - Gets the designated column's suggested title for use in printouts and displays. The suggested title is usually specified by the SQL AS clause. If a SQL AS is not specified, the value returned from `getColumnLabel` will be the same as the value returned by the `getColumnName` method.

github_pulls_comments:

1. Can one of the admins verify this patch?
2. ok to test
3. Merged build triggered.
4. Merged build started.
5. [Test build #32314 has started]
<https://amplab.cs.berkeley.edu/jenkins/job/SparkPullRequestBuilder/32314/consoleFull> for PR 6032 at

- commit [09559a0`]
(<https://github.com/apache/spark/commit/09559a0b3eebaabd3bb896cb3f8ca5e4ca835bc>).
6. Thanks for fixing this! Would it be possible to add a regression test to `JDBCSuite`?
 7. Will do.
 8. [Test build #32314 has finished]
(<https://amplab.cs.berkeley.edu/jenkins/job/SparkPullRequestBuilder/32314/consoleFull>) for PR 6032 at commit [09559a0`]
(<https://github.com/apache/spark/commit/09559a0b3eebaabd3bb896cb3f8ca5e4ca835bc>). - This patch ****passes all tests****. - This patch merges cleanly. - This patch adds no public classes.
 9. Merged build finished. Test PASSED.
 10. Test PASSED. Refer to this link for build results (access rights to CI server needed):
<https://amplab.cs.berkeley.edu/jenkins/job/SparkPullRequestBuilder/32314/> Test PASSED.
 11. Merged build triggered.
 12. Merged build started.
 13. [Test build #32324 has started]
(<https://amplab.cs.berkeley.edu/jenkins/job/SparkPullRequestBuilder/32324/consoleFull>) for PR 6032 at commit [b7d5b22`]
(<https://github.com/apache/spark/commit/b7d5b22e1539ea7398a53d5e609b65e2d8c1ba0f>).
 14. Merged build triggered.
 15. Merged build started.
 16. [Test build #32325 has started]
(<https://amplab.cs.berkeley.edu/jenkins/job/SparkPullRequestBuilder/32325/consoleFull>) for PR 6032 at commit [2aaf6f7`]
(<https://github.com/apache/spark/commit/2aaf6f7f4cf15085e237dbde8760b0f429205f38>).
 17. [Test build #32325 has finished]
(<https://amplab.cs.berkeley.edu/jenkins/job/SparkPullRequestBuilder/32325/consoleFull>) for PR 6032 at commit [2aaf6f7`]
(<https://github.com/apache/spark/commit/2aaf6f7f4cf15085e237dbde8760b0f429205f38>). - This patch ****fails Scala style tests****. - This patch merges cleanly. - This patch adds no public classes.
 18. Merged build finished. Test FAILED.
 19. Test FAILED. Refer to this link for build results (access rights to CI server needed):
<https://amplab.cs.berkeley.edu/jenkins/job/SparkPullRequestBuilder/32325/> Test FAILED.
 20. Merged build triggered.
 21. Merged build started.
 22. [Test build #32326 has started]
(<https://amplab.cs.berkeley.edu/jenkins/job/SparkPullRequestBuilder/32326/consoleFull>) for PR 6032 at commit [10fc44b`]
(<https://github.com/apache/spark/commit/10fc44bab608719388f45a524ce68d7875e75811>).
 23. [Test build #32324 has finished]
(<https://amplab.cs.berkeley.edu/jenkins/job/SparkPullRequestBuilder/32324/consoleFull>) for PR 6032 at commit [b7d5b22`]
(<https://github.com/apache/spark/commit/b7d5b22e1539ea7398a53d5e609b65e2d8c1ba0f>). - This patch ****passes all tests****. - This patch merges cleanly. - This patch adds no public classes.
 24. Merged build finished. Test PASSED.
 25. Test PASSED. Refer to this link for build results (access rights to CI server needed):
<https://amplab.cs.berkeley.edu/jenkins/job/SparkPullRequestBuilder/32324/> Test PASSED.
 26. [Test build #32326 has finished]
(<https://amplab.cs.berkeley.edu/jenkins/job/SparkPullRequestBuilder/32326/consoleFull>) for PR 6032 at commit [10fc44b`]
(<https://github.com/apache/spark/commit/10fc44bab608719388f45a524ce68d7875e75811>). - This patch ****passes all tests****. - This patch merges cleanly. - This patch adds no public classes.
 27. Merged build finished. Test PASSED.
 28. Test PASSED. Refer to this link for build results (access rights to CI server needed):
<https://amplab.cs.berkeley.edu/jenkins/job/SparkPullRequestBuilder/32326/> Test PASSED.
 29. Thanks. I'm merging this in master, branch-1.4, and branch-1.3.

github_pulls_reviews:

jira_issues:

jira_issues_comments: