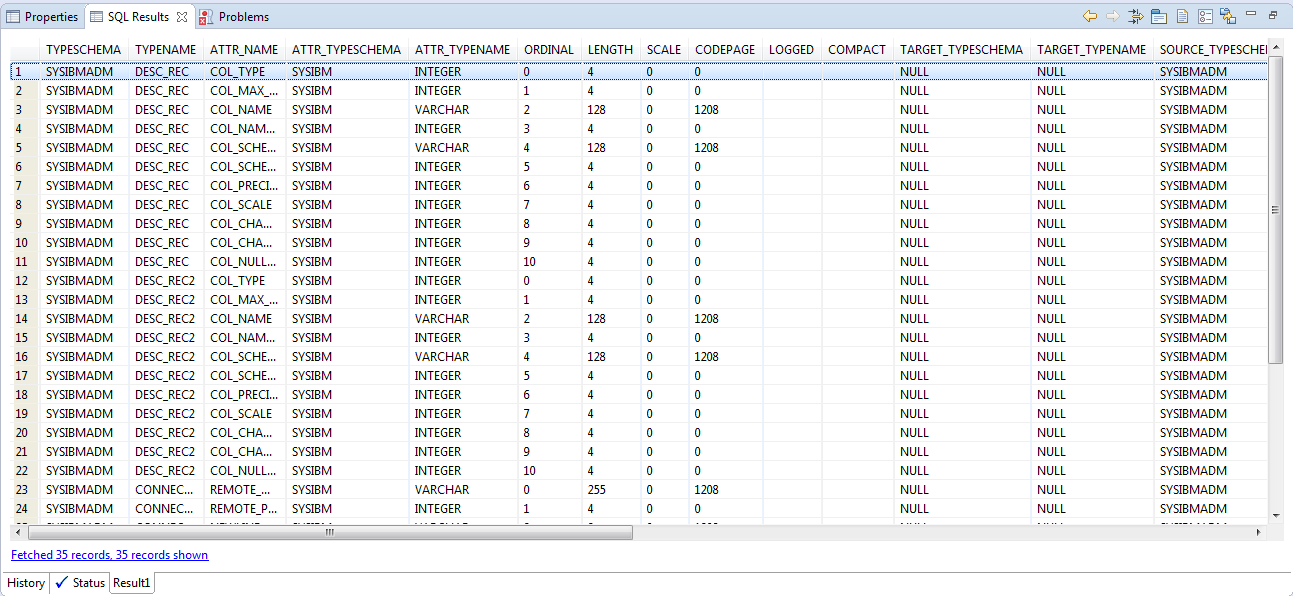
**Linux – SQL Results Column Width Issue**

# Introduction:

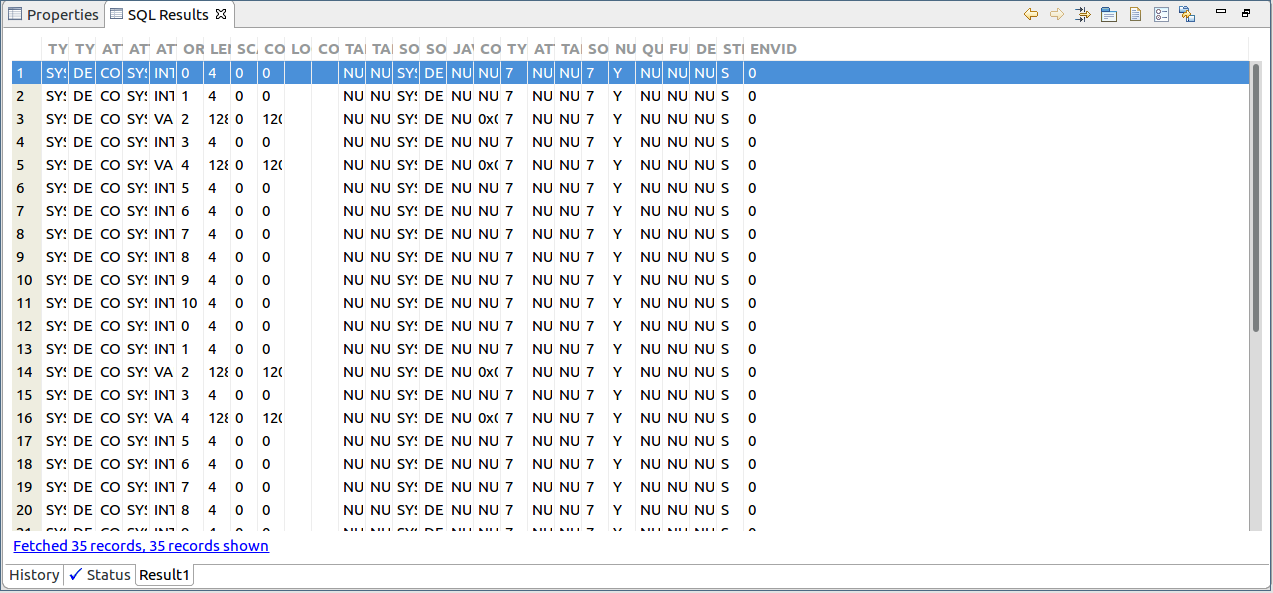
We have upgraded Data Studio with **eclipse version 4.6.3 (Eclipse Neon)**. Data Studio has dependency with many eclipse jars. After upgradation we have observed an issue on **“SQL Results” tab** of eclipse on Linux platform. It was working as expected with older DS version on Linux platform. Also, latest DS is working on Windows platform as expected. There are changes in implementation of setWidth method in org.eclipse.swt.gtk.linux.x86\_64.jar. We suspect that this change warrants some configuration or code change on Eclipse side as well.

# Scenario:

## Data Studio 4.1.2 SQL Results tab



## Data Studio 4.1.3 SQL Results tab



# Investigation

1. We have observed that width of columns needs to be adjusted depending on column header size. In DS 4.1.2, column headers are visible as expected, while in DS 4.1.3, it is not visible.
2. In Data Studio, DB2TableViewer class from com.ibm.datatools.data.extensions jar invokes ExternalResultSetViewer class from org.eclipse.datatools.sqltools.result.ui jar.
3. This class further call ResultSetViewer class from same jar.
4. It calls configTableViewer method which builds columns for table.
5. In this method, **pack method** sizes the frame so that all its contents are at or above their preferred sizes.
6. Pack method is invoked from TableColumn class from org.eclipse.swt.gtk.linux.x86\_64 jar.

DB2TableViewer class

com.ibm.datatools.data.extensions jar

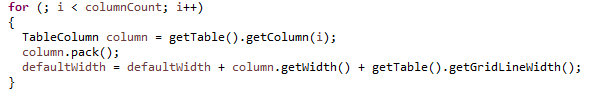
ResultSetViewer class org.eclipse.datatools.sqltools.result.ui jar

ExternalResultSetViewer class

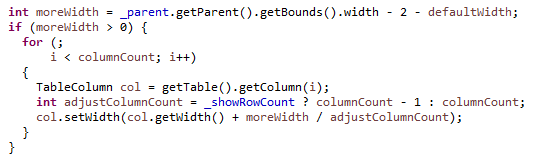
org.eclipse.datatools.sqltools.result.ui jar

TableColumn class org.eclipse.swt.gtk.linux.x86\_64

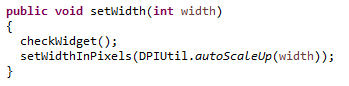
1. In configTableViewer method, initially pack() is called to adjust width for column depending on column header



1. Further depending on parent window, column width is again adjusted using setWidth()



1. In DS 4.1.2 we are using org.eclipse.swt.gtk.linux.x86\_64\_3.103.2.v20150203-1351 version while in DS 4.1.3 we are using org.eclipse.swt.gtk.linux.x86\_64\_3.105.3.v20170228-0512 version.
2. We have observed difference in implementation of pack and setWidth().
3. In org.eclipse.swt.gtk.linux.x86\_64\_3.103, pack method invokes setWidth method.
4. In org.eclipse.swt.gtk.linux.x86\_64\_3.105, pack method invokes setWidthInPixels method.
5. In latest version, setWidth method is implemented in different way,



# Conclusion

We believe that this change in implementation of setWidth method needs to be handled by either org.eclipse.datatools.sqltools.result.ui jar or do we need to do some code changes on Data Studio side because it is disturbing column indentation in SQL Results tab.

As we have recently upgraded Data Studio to neon version, is there any workaround or patch fix to quickly fix this issue.