Application Modernisation with SCT

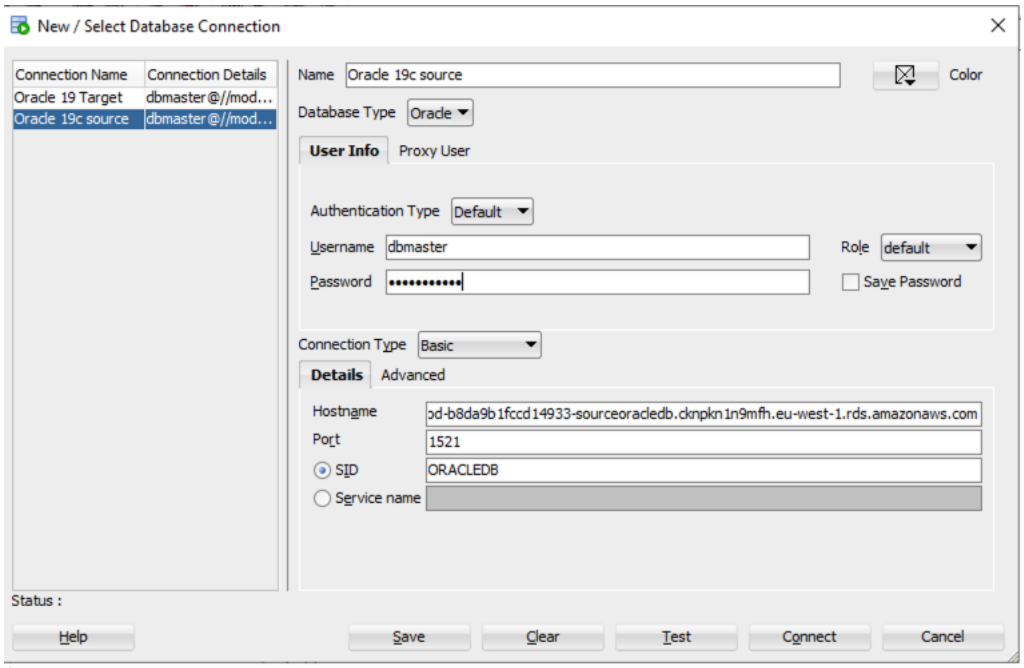
Step 1: Open the Chrome browser, download Amazon Corretto JDK 11 using this link - https://corretto.aws/downloads/latest/amazon-corretto-11-x64-windows-jdk.msi

Step 2: Install the .msi file and just make everything default and install.

Step 3: Download the following files according to the instruction of the presenter (will be provided in the lab) and copy the following files to C:\Users\Administrator\Desktop\DMS Workshop\JDBC

1. webuserx_v3sql
2. document_v3.sql
3. demoQuery.bat
4. querySalesDocuments.java

Step 4 : Open the SQL Developer (there is an icon in window task bar at the bottom)and create a new connection using the RDS Oracle Source Instance.

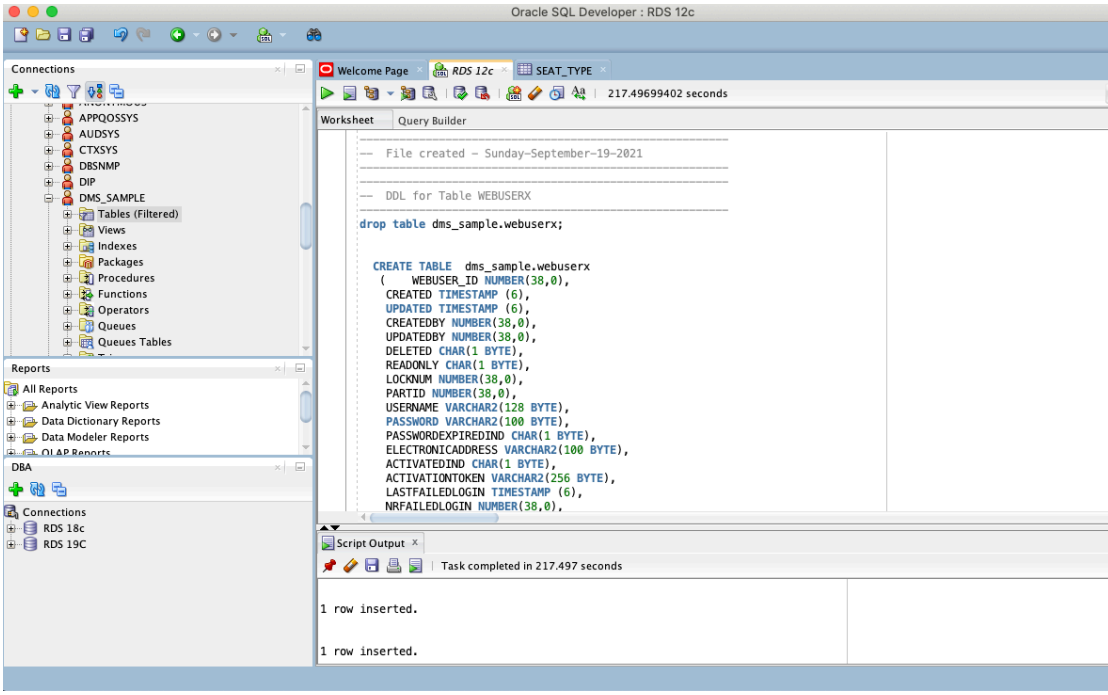


i. Please find the hostname from the endpoint in your RDS Oracle Source Instance under RDS Console

Parameter	Value
Type	SID
Server Name	< SourceOracleEndpoint >

Parameter	Value
Server Port	1521
Oracle SID	ORACLEDB
User Name	dbmaster
Password	dbmaster123

ii. Test the connection and connect.
iii. In the menu Tools, select SQL Worksheet
iv. Copy the content from webuserx_v3.sql and paste in the SQL worksheet and click the 'Run Script' button. You can clear the worksheet after successfully executing the SQL to create and populate the table webuserx



v. Repeat the above step using document_v3.sql to create and populate the table document.

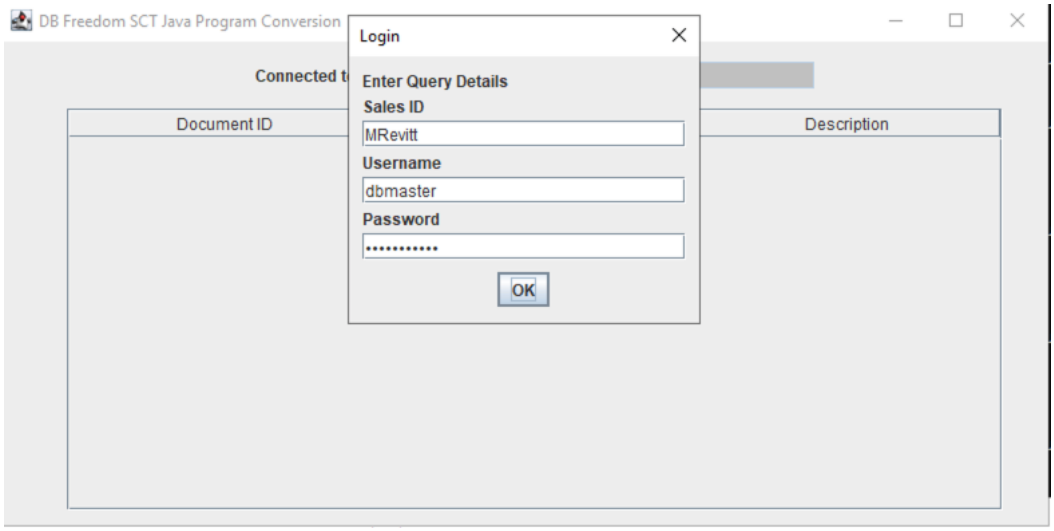
Step 5: Go to C:\Users\Administrator\Desktop\DMS Workshop\JDBC and open the file querySalesDocuments.java with notepad.exe and modify the below line

```
private static String ORAURL = "jdbc:oracle:thin:@//<change to your RDS Oracle source endpoint>:1521/ORACLEDB";
```

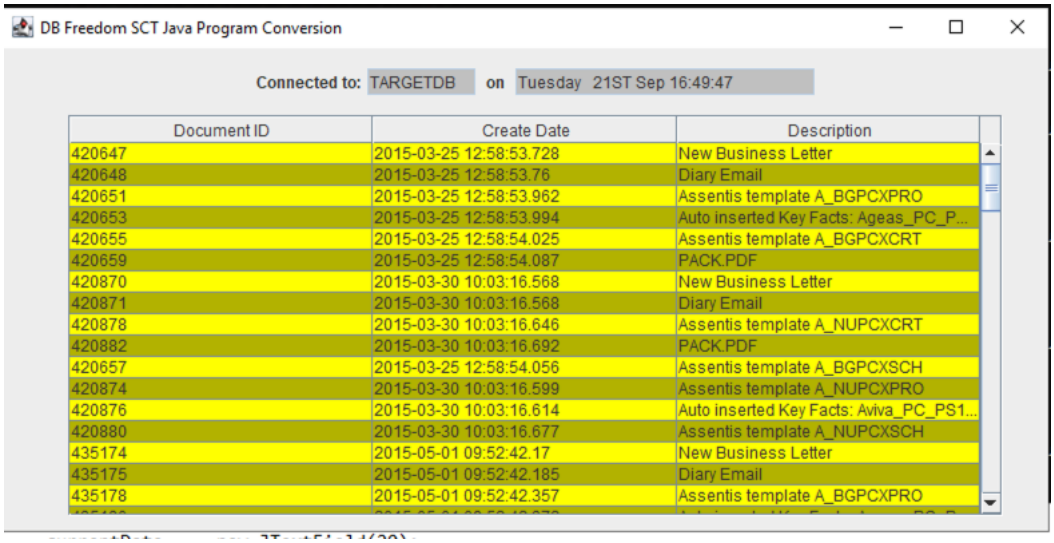
After you save it, **Close** this java file.

Step 6: open a command prompt and

I. cd C:\Users\Administrator\Desktop\DMS Workshop\JDBC
II. Type demoQuery.bat and hit return.
III. You should see a login screen and accept the default values and press ok



IV. You should see the data from the java GUI:

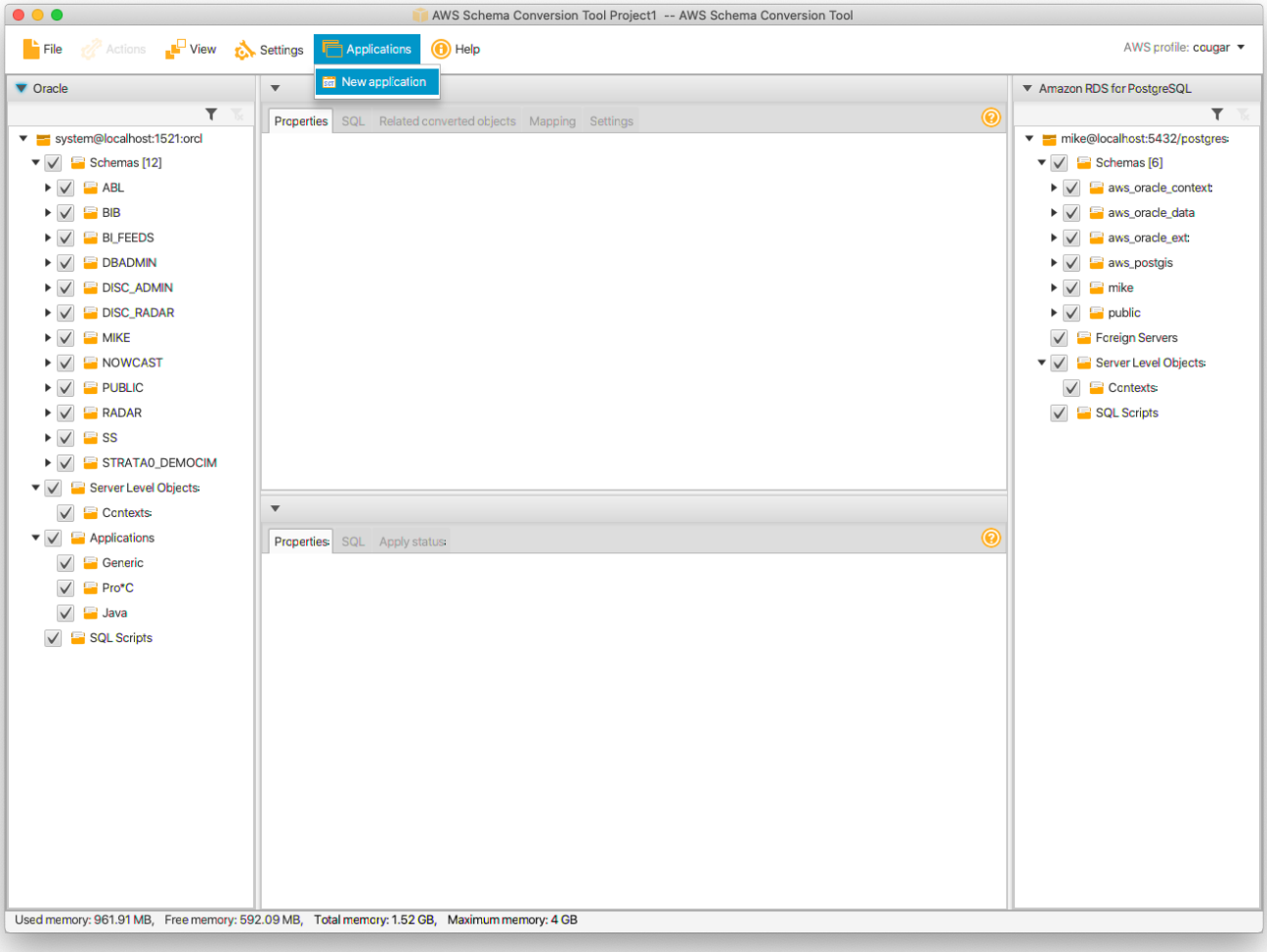


V. Once you can see the data, close the window (you should be back to command prompt).

**** Check with the presenter whether you need to go back to you DMS Lab in https://dms-immersionday.workshop.aws/en/oracle-aurora/data-migration.html)**

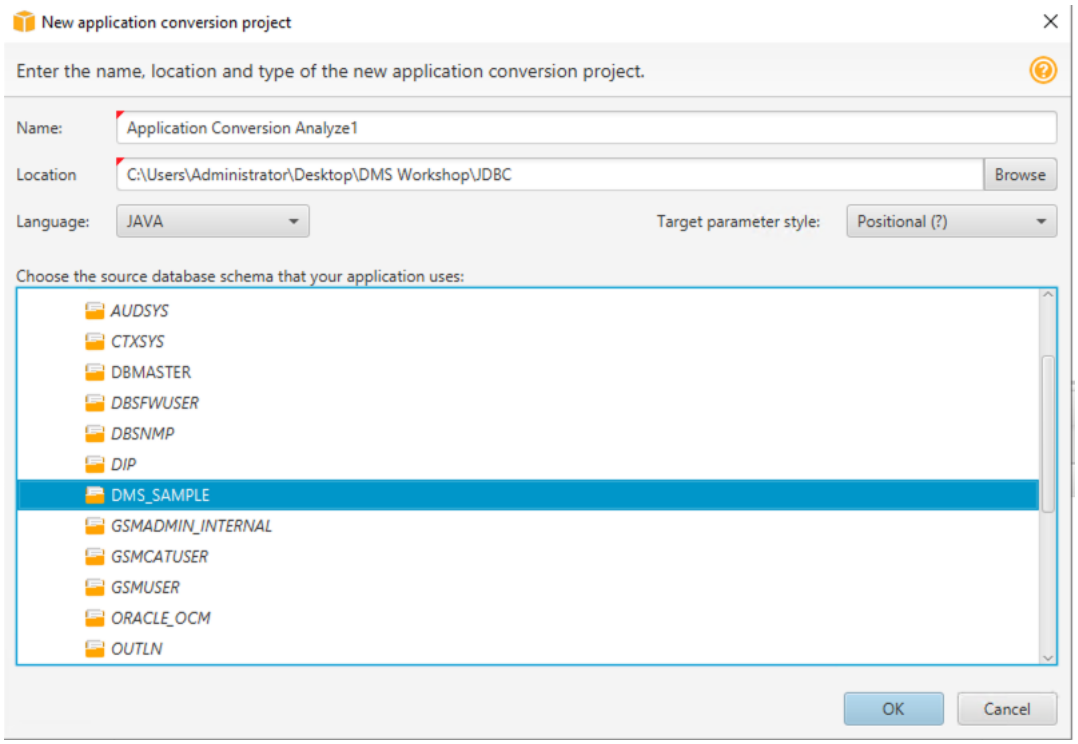
Step 7: Modify Java Program

i. Switch back to SCT and use the same project from your previous SCT lab (Oracle database to Aurora PostgreSQL) and select ‘Application’ from the menu bar and choose ‘New Application’

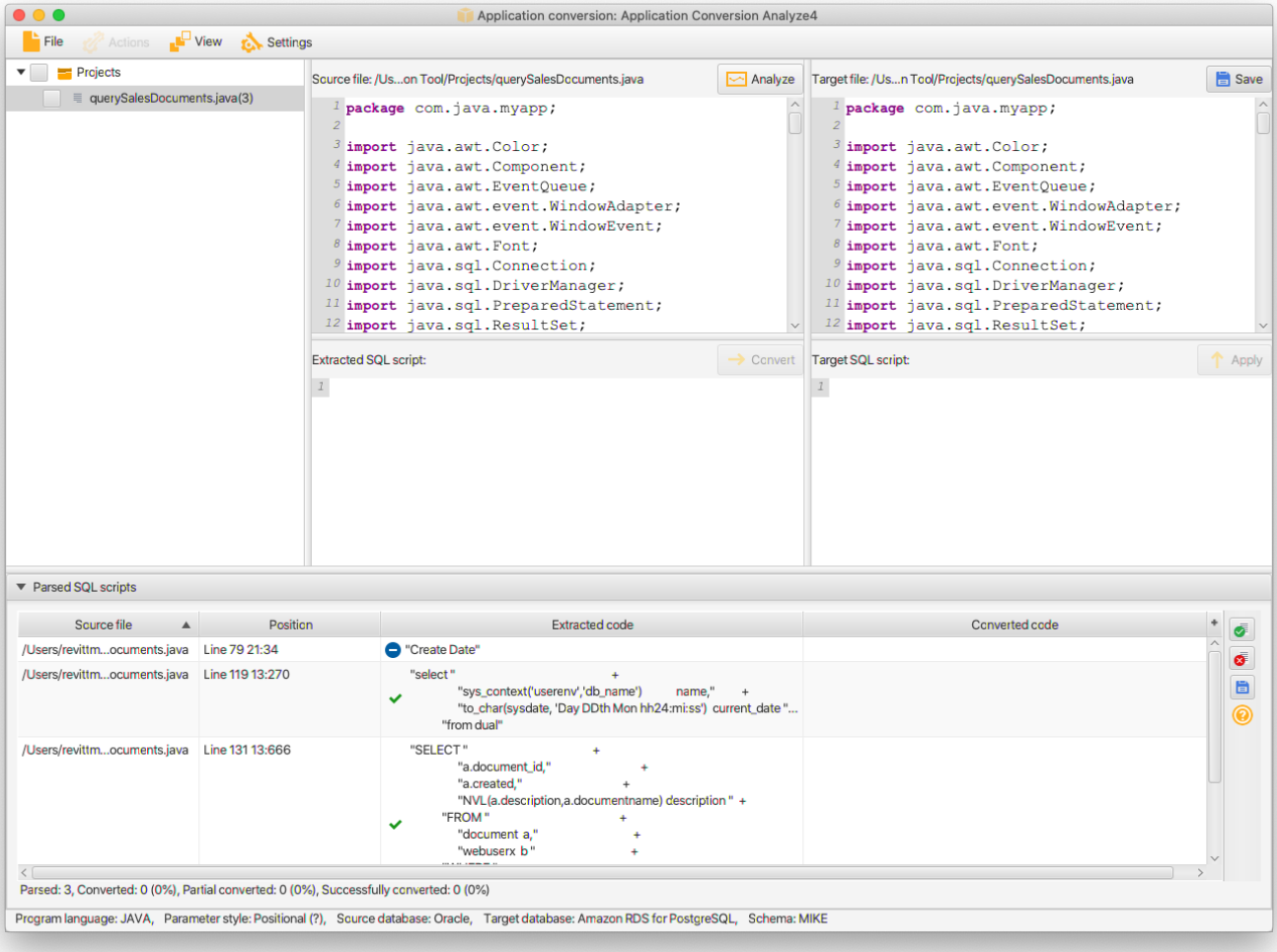


ii. Set the following information and create the project

- Location: C:\Users\Administrator\Desktop\DMS Workshop\JDBC
- Language: JAVA
- Target parameter style: Positional(?)
- Schema: DMS_SAMPLE

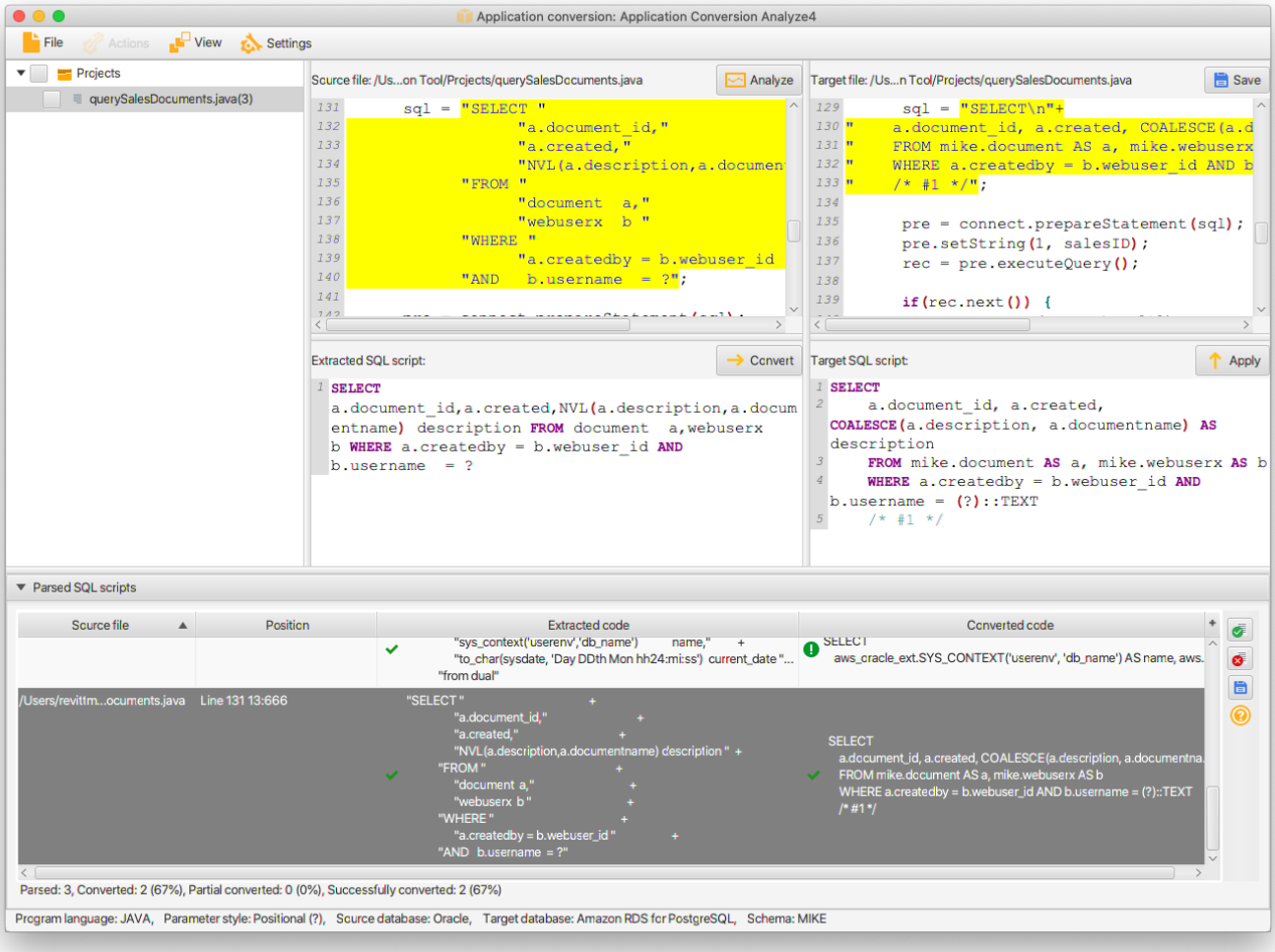


iii. Locate and click on querySalesDocuments.java and then press the **Analyse** button



iv. In the bottom section, **ignore** the first “Create Date” statement and go the next 2 statement

v. Highlight each of the select statements in turn and press the **‘Convert’** button, examine the changed SQL. Then press the ‘**Apply’** button.



vi. Then, press **Save** button on top right to update the java file and you can **close** SCT [**NOTE: make sure you are not opening querySalesDocuments.java in multiple editors like notepad or SCT at the same time**].

Step 8: Go to C:\Users\Administrator\Desktop\DMS Workshop\JDBC and open the file querySalesDocuments.java with notepad.exe and modify the below 2 lines

```
private static String POSTURL = "jdbc:postgresql://<change to your Aurora PostgreSQL Cluster writer endpoint>:5432/AuroraDB";
```

```
private static  String            DBURL         = POSTURL;
```

(optional) Make the following change to the MyForm() function to distinguish the new program

- Change the color from yellow to green as follows

```
        comp.setBackground(row % 2 == 0 ? Color.green : Color.green.darker());
```

Save the java file.

Step 9: Repeat Step 6 to run the Java program again in command prompt.

Congratulations! You have successfully completed the application modernization lab.