

## Application Modernisation with SCT

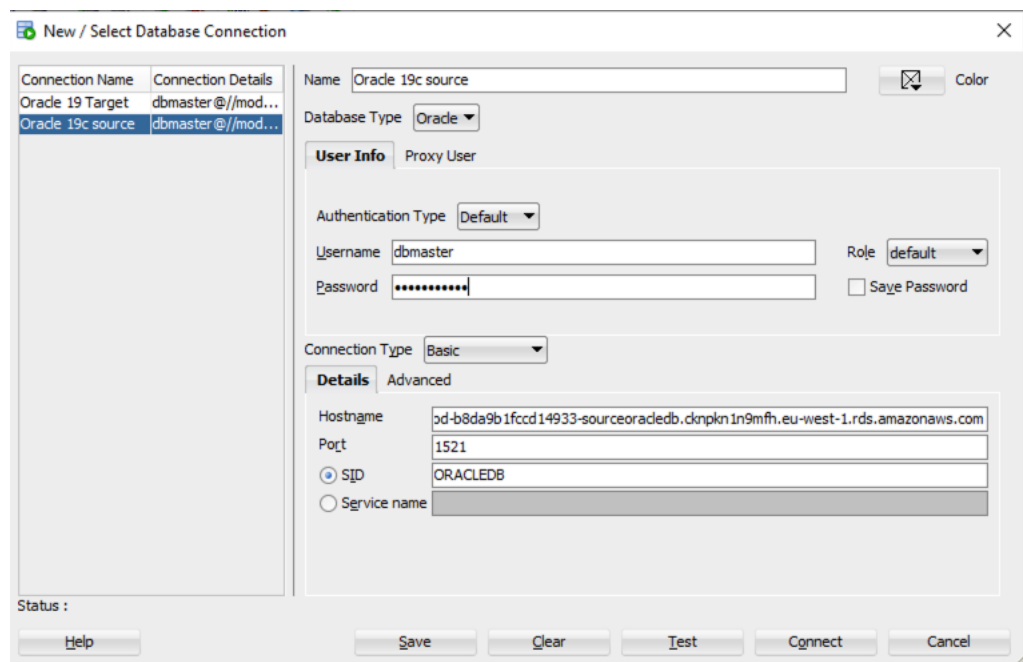
Step 1: Open the Chrome browser, download Amazon Corretto JDK 11 using this link  
- <https://corretto.aws/downloads/latest/amazon-corretto-11-x64-windows-jdk.msi>

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.

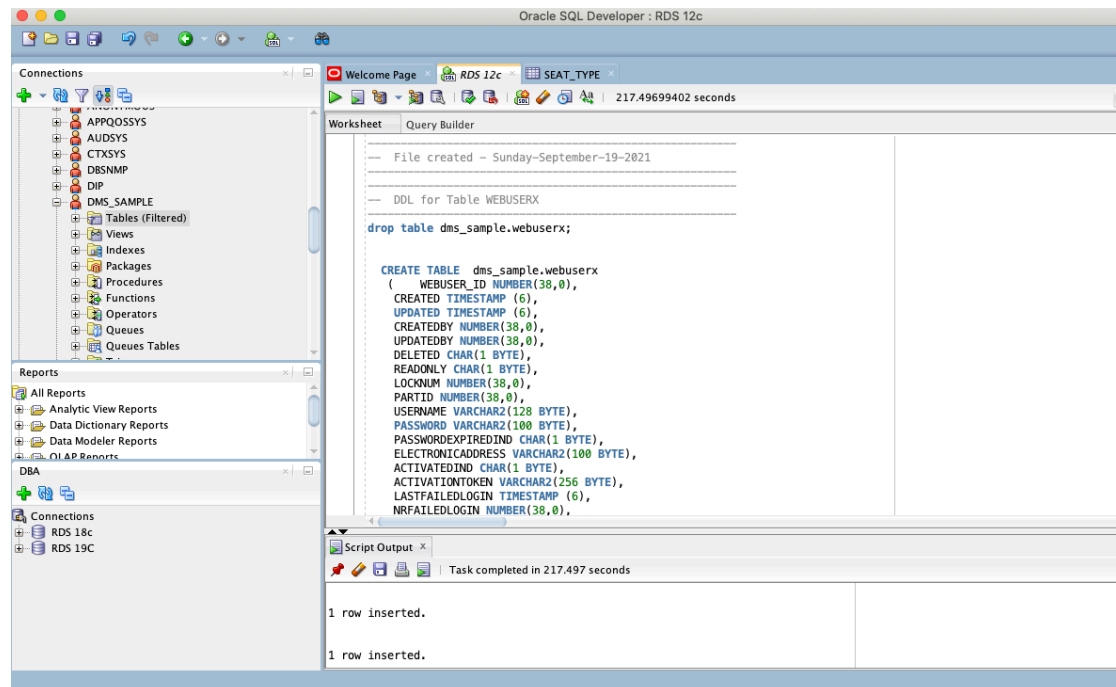


- i. Please find the hostname from the endpoint in your RDS Oracle Source Instance under RDS Console

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.

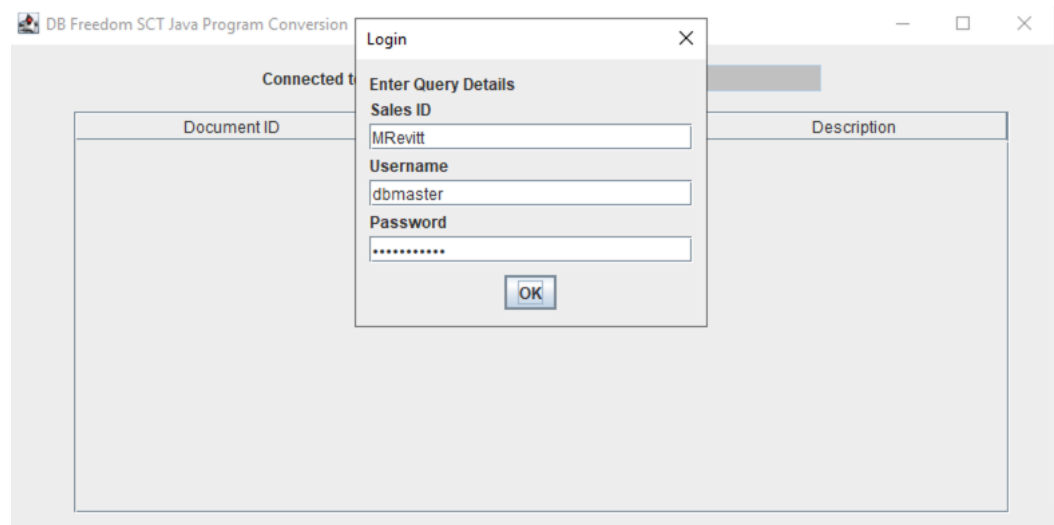
Step 5: Go to C:\Users\Administrator\Desktop\DMS Workshop\JDBC and open the file querySalesDocuments.java with notepad.exe and modify the below line

```
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:

The screenshot shows the same application window, now displaying a table of data. The status bar indicates "Connected to: TARGETDB on Tuesday 21ST Sep 16:49:47".

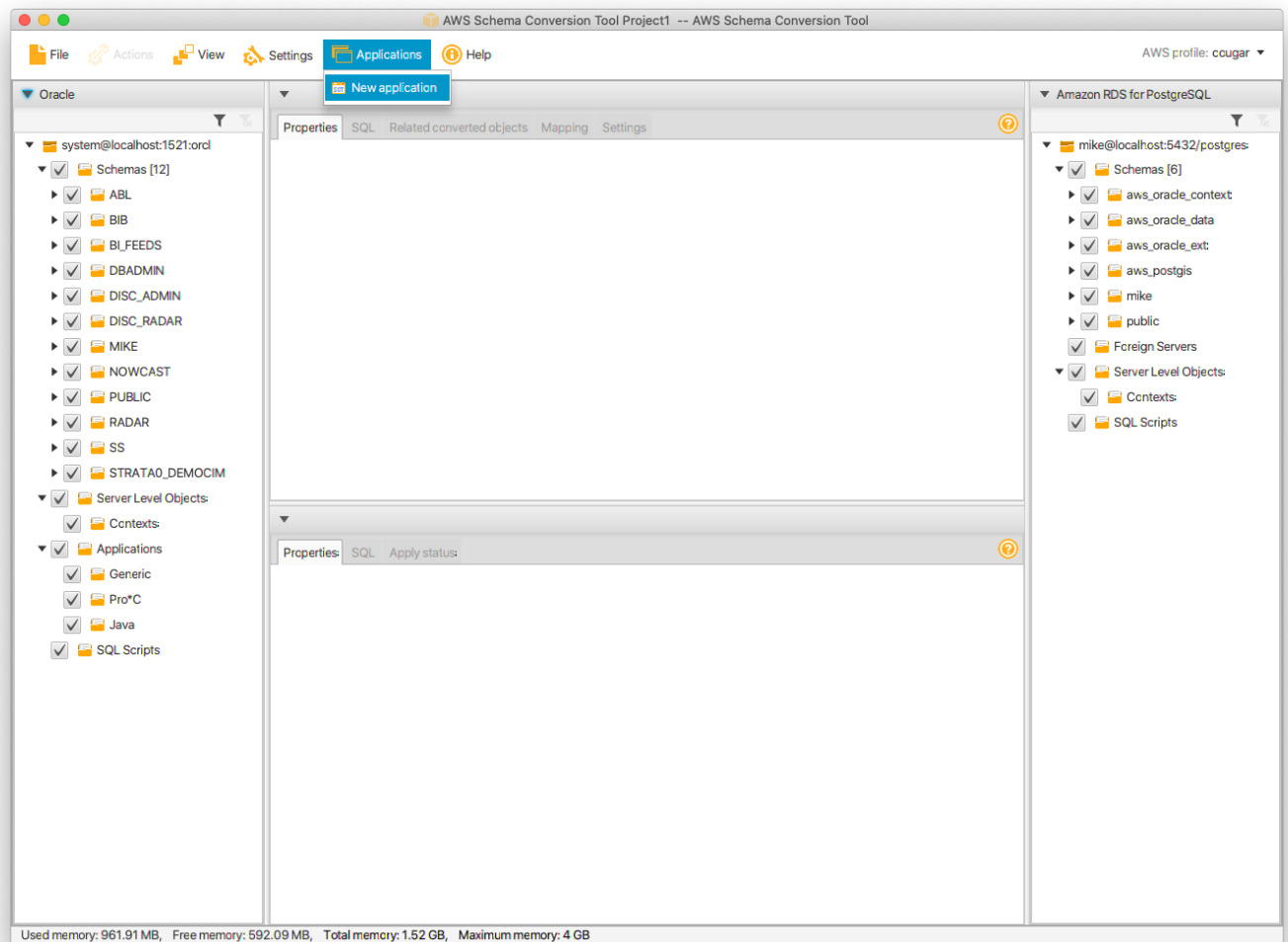
Document ID	Create Date	Description
420647	2015-03-25 12:58:53.728	New Business Letter
420648	2015-03-25 12:58:53.76	Diary Email
420651	2015-03-25 12:58:53.962	Assentis template A_BGPCXPRO
420653	2015-03-25 12:58:53.994	Auto inserted Key Facts: Ageas_PC_P...
420655	2015-03-25 12:58:54.025	Assentis template A_BGPCXCRT
420659	2015-03-25 12:58:54.087	PACK.PDF
420870	2015-03-30 10:03:16.568	New Business Letter
420871	2015-03-30 10:03:16.568	Diary Email
420878	2015-03-30 10:03:16.646	Assentis template A_NUPXCRT
420882	2015-03-30 10:03:16.692	PACK.PDF
420657	2015-03-25 12:58:54.056	Assentis template A_BGPCXSCH
420874	2015-03-30 10:03:16.599	Assentis template A_NUPCXPRO
420876	2015-03-30 10:03:16.614	Auto inserted Key Facts: Aviva_PC_PS1...
420880	2015-03-30 10:03:16.677	Assentis template A_NUPXCXCH
435174	2015-05-01 09:52:42.17	New Business Letter
435175	2015-05-01 09:52:42.185	Diary Email
435178	2015-05-01 09:52:42.357	Assentis template A_BGPCXPRO

- 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

New application conversion project

Enter the name, location and type of the new application conversion project.

Name: Application Conversion Analyze1

Location: C:\Users\Administrator\Desktop\DMS Workshop\JDBC Browse

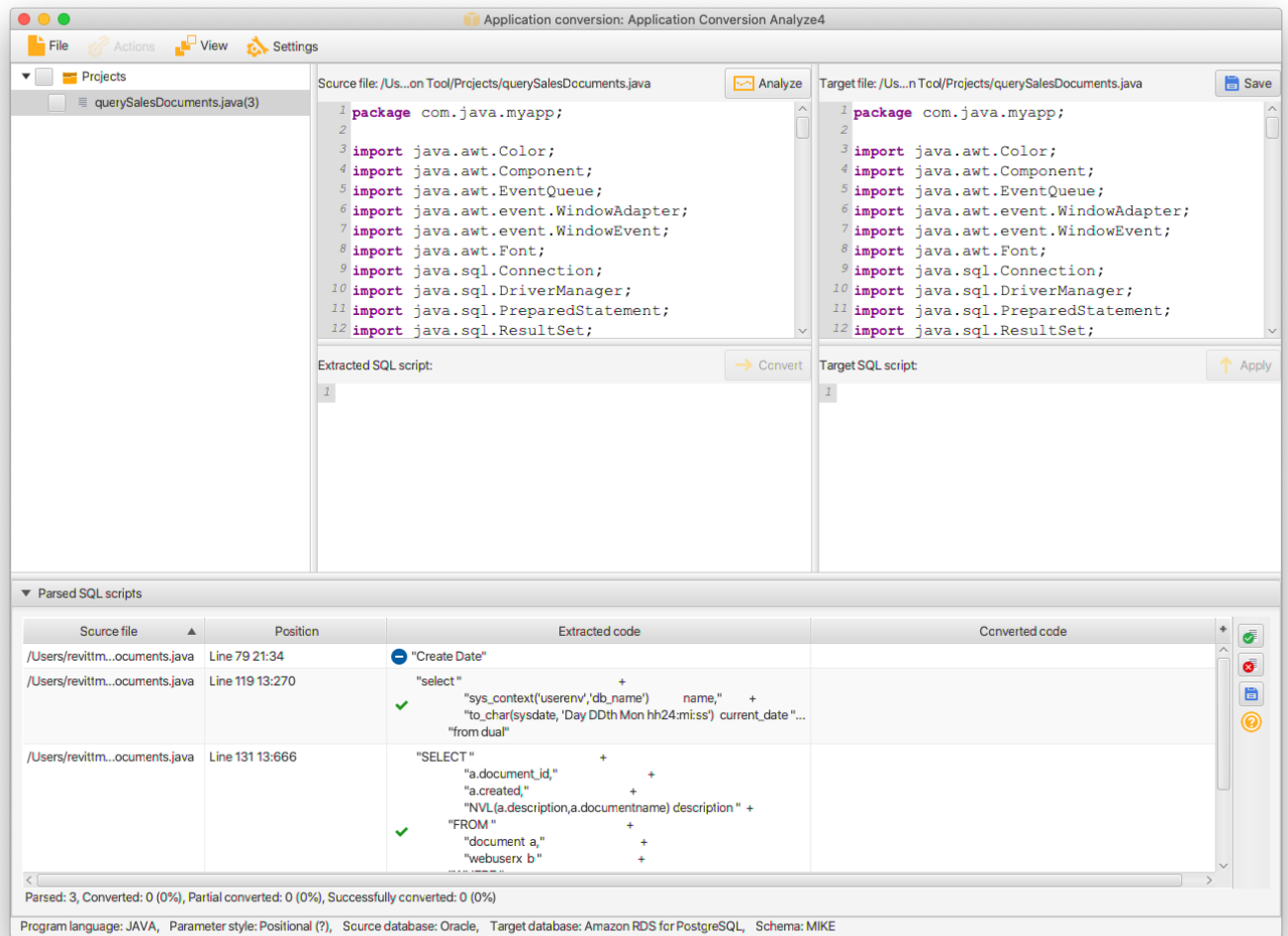
Language: JAVA Target parameter style: Positional (?)

Choose the source database schema that your application uses:

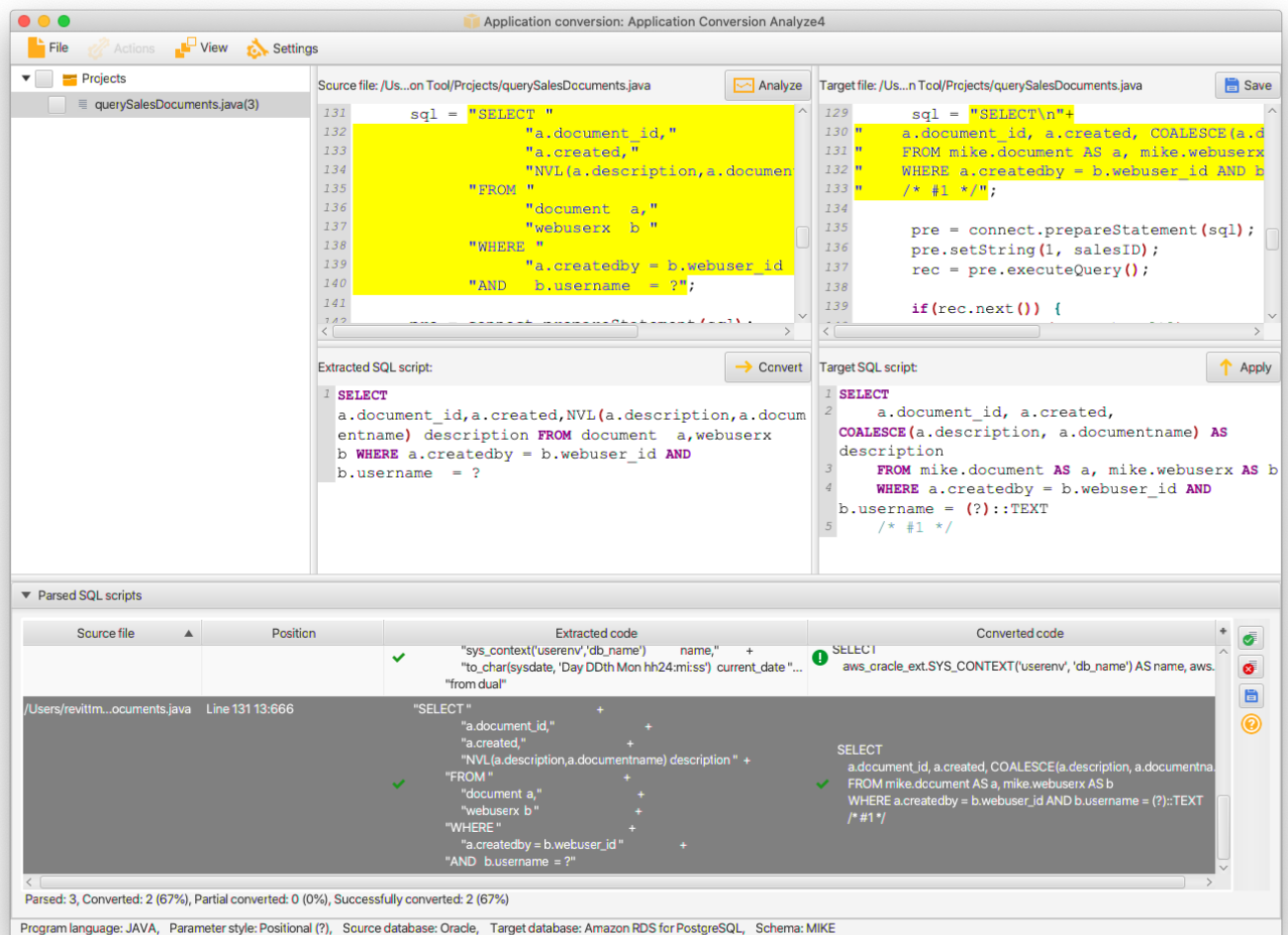
- AUDSYS
- CTXSYS
- DBMASTER
- DBSFUSER
- DBSNMP
- DIP
- DMS\_SAMPLE**
- GSMADMIN\_INTERNAL
- GSMCATUSER
- GSMUSER
- ORACLE\_OCM
- OUTLN

OK Cancel

- 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.**