

Configuring Oracle Business Intelligence Enterprise Edition Server to Support Teradata Database Query Banding

A Joint Oracle and Teradata White Paper

By: Stephen Kamyszek,
Teradata Corporation

Contributors:
Matt Bedin, Oracle
Alan Fuller, Oracle
Ragnar Edholm, Oracle

TERADATA[®]

ORACLE Gold
Partner

Configuring Oracle Business Intelligence Enterprise Edition Server to Support Teradata Database Query Banding

Introduction

All Oracle Business Intelligence users, by default, use the same database credentials when they login to the database. There are situations where it is beneficial to add user-specific or report-specific information to the query request to enable different priority or simplify debugging of query performance. One way to do so is to use the database feature called query banding. This paper will use the Teradata® Database as the database handling the queries, but the principles are the same for any database that supports query banding functionality.

Step 1. Query Band Configuration for Oracle Business Intelligence Enterprise Edition

Start by adding a new execute before query item. Open the connection pool properties for the Teradata Database.

Click on the “Connection Scripts” tab.

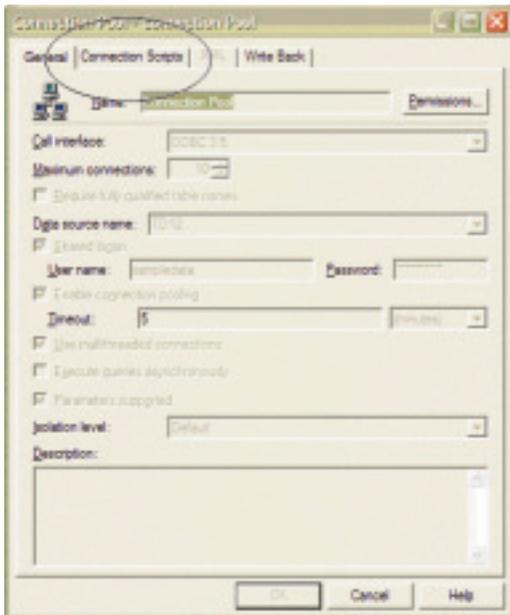


Figure 1.

Expand the “Execute before query” section.



Figure 2.

Click on the “New” button.



Figure 3.

Configuring Oracle Business Intelligence Enterprise Edition Server to Support Teradata Database Query Banding

Now you need to decide what kind of information you want to add. You can add things that Oracle Business Intelligence Enterprise Edition (OBIEE) Server calls ‘request scope’ variables. Read the Oracle BI documentation to determine which ‘request scope’ variables are available for your versions.

In this example we will add a user identifier.

Add the following SQL to the Physical SQL section:

```
set query_band =  
'ApplicationName=OBIEE;ClientUser=valueof(NQ_SESSION.USER);' for session;
```

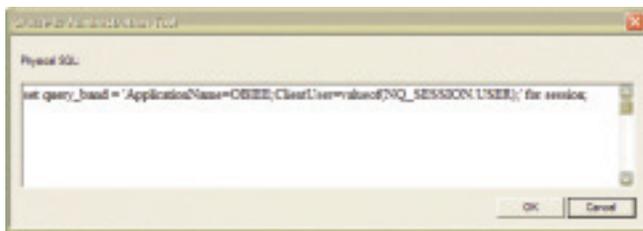


Figure 4.

Click “OK”, and then click “OK” again. Check in the changes if you are working on-line, and save the repository. Reload the metadata for the server via the Answers link or by restarting the OBIEE server.

Step 2. Testing Query Band Configuration

Make sure that you have reloaded the metadata for the server via the Answers link or by restarting the OBIEE server.

Use Oracle BI or SQL Assistant to query the Teradata system and check the Teradata DBQL table.

The DBQL tables should reflect the OBIEE user executing the query.

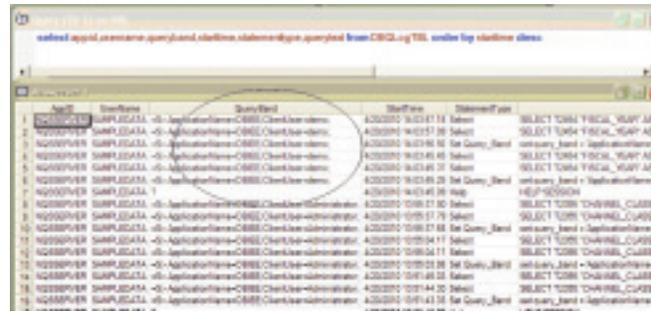


Figure 5.

In Figure 5, the results of the DBQL query show that the OBIEE server logs into the Teradata Database with the user called sampledata. Each OBIEE end-user is then identified with the query that they ran via the query band. The DBQL results show two end users who ran OBIEE answer reports: demo and Administrator.

The query banding must be set for the session. Setting for transaction won't work due to the way that OBIEE sends the SQL to the Teradata Database. Other arguments may be added to the query band.

For more information about Query Banding in the Teradata Database, see the Teradata Orange Books titled “Using Query Banding in Teradata” and “Reserved QueryBand Names.” There are versions of each available for the different versions of the Teradata Database.

Conclusion

Using query banding can help database administrators investigate query performance issues, prioritize important queries, and more. It is not difficult or time consuming to configure Oracle BIEE server to use query banding.

Teradata and the Teradata logo are registered trademarks of Teradata Corporation and/or its affiliates in the U.S. and worldwide. Oracle, JD Edwards, PeopleSoft, and Siebel are registered trademarks of Oracle Corporation and/or its affiliates. Teradata continually improves products as new technologies and components become available. Teradata, therefore, reserves the right to change specifications without prior notice. All features, functions, and operations described herein may not be marketed in all parts of the world. Consult your Teradata representative or Teradata.com for more information.

Copyright © 2011 by Teradata Corporation All Rights Reserved. Produced in U.S.A.