How to Connect SAS to an Oracle View*

NOTE: These instructions assume that you already have a RIX username and password and have installed the Oracle Client software.

This document provides instructions on how to access an Oracle database using either a SAS/ACCESS Interface to Oracle or a SAS/ACCESS Interface to ODBC. To find out which products are currently license at your site, submit the following code from within SAS:

```
proc setinit noalias;
run;
```

Based on the licensing information provided in the SAS log, choose one of the available methods to access your Oracle data.

**SAS/ACCESS Interface to Oracle**

**Software Requirements:**

- Verify that the SAS/ACCESS Interface to Oracle is installed on your machine.
  - Browse to !SASROOT\Access\Sasexe and verify existence of sasioora.dll.
- Verify that the SAS/ACCESS Interface to Oracle is licensed.
  - Submit PROC SETINIT code from above example. “SAS/ACC – ORACLE” should appear in the SAS log.
- For additional information on system requirements for the SAS/ACCESS Interface to Oracle product please refer to the system requirements at http://support.sas.com/installcenter.

Once you have met the above software requirements, you can connect to an Oracle database from SAS by using one of the following methods:

**LIBNAME statement using the ORACLE engine (provides direct and dynamic access to the Oracle data).** The libname statement is used to create a library reference, or libref, for a SAS catalog.

The syntax is:

```
libname mylib oracle dbprompt=yes defer=no path='XE' schema='SCHEMA';
```

Note: The values highlighted in grey should be edited for your project.

After running this line of code the ORACLE Engine will prompt for User and Password.
Note: The values for user=, password=, and path= are specific to Oracle. The path= statement is the Oracle alias name that is defined in the Oracle TNSNAMES.ORA file. For BRIC this will usually be 'XE.'

The SQL Procedure Pass-Through Facility enables you to pass Oracle SQL statements to an Oracle database for processing.

```
proc sql;
    connect to oracle(user=scott password=tiger path=XE);
    create table test1 as
    select * from connection to Oracle
    (select * from SCHEMA.VIEW);
    quit;
```

Note: The values highlighted in grey should be edited for your username, password and project data.

**SAS/ACCESS Interface to ODBC**

The SAS/ACCESS Interface to ODBC software provides an interface between SAS and any ODBC-compliant application.

Software Requirements:

- Verify that the SAS/ACCESS Interface to ODBC is installed on your machine.
  - Browse to !SASROOT\Access\Sasexe and verify existence of sasioodb.dll.
- Verify that the SAS/ACCESS Interface to ODBC is licensed.
  - Submit proc setinit code from above example. SAS/ACC – ODBC should appear in the SAS Log.
- Verify that an ORACLE ODBC driver for the installed on your machine.
  - Open the Data Sources (ODBC) from the Microsoft Windows XP click Control Panel > Administrative Tools > Data Sources (ODBC).
  - On the Drivers tab verify that the correct driver is installed (“Microsoft ODBC for Oracle” or “Oracle in OraClient10g_home1”)
  - Define an ODBC Data Source to your ORACLE database.
Once you have met the above software requirements, you can connect to an Oracle database from SAS by using the SQL Procedure Pass-Through Facility. It enables you to pass Oracle SQL statements to an Oracle database via the Oracle ODBC driver.

```sas
proc sql;
   connect to odbc(dsn=XE uid=scott password=tiger);
   create table test2 as
       (select * from_schema VIEW);
   quit;
```

Note: The values highlighted in grey should be edited for your username, password and project data.

*These instructions are adapted from a SAS Support Technical document titled “Accessing an Oracle Database from SAS on Microsoft Windows (TS-703)” [http://support.sas.com/techsup/technote/ts703.html](http://support.sas.com/techsup/technote/ts703.html)*