Empower 3 SR4 & SR5 Oracle 19c RFT

Intro:

The purpose of this document is to capture the set up and known issue encountered when upgrading an Oracle 18c database for Empower 3 SR4 to an Oracle 19c database. The below steps and configuration have been tested by the Waters team to ensure Empower 3 SR4 functionality still works as expected. Any other configuration or set up cannot be guaranteed to work as expected for SR4.

Additionally, Waters performed a risk assessment for Empower 3 SR5 to determine viability for use with Oracle 19c. Based on the testing performed on Empower 3 SR4 there is a high level of confidence that Empower releases using the Oracle database 18.13 client, such as Empower 3 SR5, will also function as intended with Oracle database client 19.6.0.0.200114 server utilizing a container database or the more trivial case of a single instance database, given that all of the same configuration and pre-requisite requirements for SR4 are met.

Configuration:

Below is a list of the configuration of the testing environment used the Request for Test. We can assert that the Empower functionality works on an SR4 Environment with 19c on this configuration.

Red Hat	Red Hat Enterprise Linux Server release 7.6
Server	Microsoft Windows Server 2016 Standard
Lace/ BC Lace	Microsoft Windows 10 Enterprise 2016 LTSB
Client	Microsoft Windows 10 Pro

Set up:

Pre-requisite: Ensure that the current Oracle 18c Client Time Zone is upgraded to version 34 for compatibility with Oracle 19c. The version 34 Daylight Savings Time Patch should be run on all Empower nodes - all Empower clients, LAC/E modules, and BC LAC/E modules as well as the 32- and 64-bit Oracle Homes on the server. A patch installer (667006287) is provided by Waters and instructions are provided in the Release Notes (715006825)

1. Have an Oracle listener configured on port 1521
2. Make sure the database has the following settings set

Step	Setting	Value
Database Operation	Create a database	true
Creation Mode	Advanced configuration	true
Deployment type	Database type	Oracle Single Instance database
Deployment type	Template name	Custom Database
Database Identification	Global database name	any; preferred WAT19
Database Identification	SID	any; preferred WAT19

Database Identification	Create as Container database	true
Database Identification	Use Local Undo tablespace for PDBs	true
Database Identification	Create a Container database with one or more PDBs	true
Database Identification	Number of PDBs	1
Database Identification	PDB name	any; preferred WAT19PDB
Storage Option	Use following for the database storage attributes	true - Database files storage type:File System; Database files location:{ORACLE_BASE}/oradata/{DB_UNIQUE_NAME}
Fast Recovery Option	Specify Fast Recovery Area	true - File System;browse for path;30 GB
Fast Recovery Option	Enable archiving	true - default options
Network Configuration	Listener selection	use existing listener
Configuration Options - Memory	Use Automatic Shared Memory Management	true - 66% min
Configuration Options - Sizing	Processes	min 1500
Configuration Options - Character sets	Choose from the list of character sets	WE8ISO8859P1 - ISO 8859-1 West European
Configuration Options - Character sets	National character set	AL16UTF16 - Unicode UTF-16 Universal character set
Configuration Options - Character sets	Default language	American
Configuration Options - Character sets	Default territory	United States
Configuration Options - Connection mode	Dedicated server mode	true
Management Options	Configure Enterprise Manager (EM) database express	false
Management Options	Register with Enterprise Manager (EM) cloud control	false
User Credentials	Use different administrative passwords	true - sys=Waters_1;system=Waters_2;pdbadmin=Waters_3
Creation Option	Create database	true
Creation Option	Save as a database template	false
Creation Option	Generate database creation scripts	false

3. Add the WAT19PDB identifier to tnsnames.ora file
   a. edit tnsnames.ora from $ORACLE_HOME/network/admin using a text editor and create a similar to CDB(WAT19) entry for PDB
4. Add the sql traffic encryption parameters to sqlnet.ora file
   a. setup sql traffic encryption $ORACLE_HOME/network/admin/sqlnet.ora

b. if file doens't exists - create file

c. SQLNET.ENCRYPTION_SERVER = REQUIRED

d. SQLNET.ENCRYPTION_TYPES_SERVER = (AES256)

5. Set the pluggable database 'Open'

    a. sqlplus sys/Waters_1@wat19pdb as sysdba

    b. show con_name;

    c. alter database open;

6. Create the following tablespaces while connected to the PDB

Tablespace	Datafile Count	Datafile Size	Datafile Extending Setting	Datafile Max Size
index_data	9	100 MB	ON	20 GB
user_data	9	100 MB	ON	20 GB

    a. Get the path for existing tablespace files and replace in the file paths below.

        i. select name from v$datafile_header where tablespace_name = 'SYSTEM';

    b. create tablespace index_data

    c. datafile '/u01/app/oracle/oradata/WAT19/WAT19PDB/id01.dbf' size 100m AUTOEXTEND ON MAXSIZE 20G,
'/u01/app/oracle/oradata/WAT19/WAT19PDB/id02.dbf' size 100m AUTOEXTEND ON MAXSIZE 20G,
'/u01/app/oracle/oradata/WAT19/WAT19PDB/id03.dbf' size 100m AUTOEXTEND ON MAXSIZE 20G,
'/u01/app/oracle/oradata/WAT19/WAT19PDB/id04.dbf' size 100m AUTOEXTEND ON MAXSIZE 20G,
'/u01/app/oracle/oradata/WAT19/WAT19PDB/id05.dbf' size 100m AUTOEXTEND ON MAXSIZE 20G,
'/u01/app/oracle/oradata/WAT19/WAT19PDB/id06.dbf' size 100m AUTOEXTEND ON MAXSIZE 20G,
'/u01/app/oracle/oradata/WAT19/WAT19PDB/id07.dbf' size 100m AUTOEXTEND ON MAXSIZE 20G,
'/u01/app/oracle/oradata/WAT19/WAT19PDB/id08.dbf' size 100m AUTOEXTEND ON MAXSIZE 20G,
'/u01/app/oracle/oradata/WAT19/WAT19PDB/id09.dbf' size 100m AUTOEXTEND ON MAXSIZE 20G;

    d. create tablespace user_data

    e. datafile '/u01/app/oracle/oradata/WAT19/WAT19PDB/ud01.dbf' size 100m AUTOEXTEND ON MAXSIZE 20G,
'/u01/app/oracle/oradata/WAT19/WAT19PDB/ud02.dbf' size 100m AUTOEXTEND ON MAXSIZE 20G,
'/u01/app/oracle/oradata/WAT19/WAT19PDB/ud03.dbf' size 100m AUTOEXTEND ON MAXSIZE 20G,
'/u01/app/oracle/oradata/WAT19/WAT19PDB/ud04.dbf' size 100m AUTOEXTEND ON MAXSIZE 20G,
'/u01/app/oracle/oradata/WAT19/WAT19PDB/ud05.dbf' size 100m AUTOEXTEND ON MAXSIZE 20G,
'/u01/app/oracle/oradata/WAT19/WAT19PDB/ud06.dbf' size 100m AUTOEXTEND ON MAXSIZE 20G,
'/u01/app/oracle/oradata/WAT19/WAT19PDB/ud07.dbf' size 100m AUTOEXTEND ON MAXSIZE 20G,
'/u01/app/oracle/oradata/WAT19/WAT19PDB/ud08.dbf' size 100m AUTOEXTEND ON MAXSIZE 20G,
'/u01/app/oracle/oradata/WAT19/WAT19PDB/ud09.dbf' size 100m AUTOEXTEND ON MAXSIZE 20G;

7. Create the following tablespace group while connected to the PDB

Tablespace group	Tablespaces part of the group
temporary_data	temp

    a. alter tablespace temp tablespace group temporary_data;

8. Copy the AdministrativeScripts zip archive for Linux from Empower installation media to the Red Hat server

9. Extract the AdminsitrativeScripts archive

10. Alter the extracted files properties to allow them to be executed as a program

11. Create a new Oracle password file named 'orapw<databaseSID>' '$ORACLE_HOME/dbs' directory.

    a. To do this please run ./pwds.sh <ORACLE_HOME> <ORACLE_SID> <SysPwd>

        i. where syspwd is the password of the SYS account and <ORACLE_SID> is the SID for CDB

ii. this should be executed before setting env variable TWO_TASK

12. Execute "export TWO_TASK=WAT19PDB" in Terminal
   a. this is to set env variable TWO_TASK which in turn will direct all sqlplus logins addressed to CDB directly to PDB
13. Run script 'fillempowerdb.sh'
   a. ./fillempowerdb.sh <ORACLE_SID> <ORACLE_HOME> <path_to_the_AdminstrativeScriptsdir> <Database Language> <SystemPwd> <SysPwd>
      i. where path_to_the_AdminstrativeScriptsdir is Path to AdministrativeScripts directory
      ii. Database Language is Database language (en, ja, ko, zh-CHS)
      iii. SystemPwd is System account password
      iv. SysPwd is Sys account password.
14. Finally ensure no unexpected errors occurred during fill of the database. For a list of known error please see below.

Known issues:

Summary	Description
Error in Verify Files caused after updating from Oracle18c to Oracle19C.	After updating Oracle18C to Oracle 19C database, "Performed IQ with errors" was shown in SystemAuditTrail instead of "Performed ID Successfully". This is caused due to an error caused in "Verify Files" where the "Database Installation Verification Utility" was expecting version(s) - **18.0.0.0.0** but the actual is **19.0.0.0.0.** Below is the CheckSum file generated after running VerifyFiles.
Errors from Running FillEmpowerDB.sh on RedHat 7.6 with Oracle 19c	

Errors from CreateUsers.sql	We can't grant execute on the DBMS_JAVA to MILL_ADMIN_ROLE and MILL_ADMIN_ROLE.
	
	 GRANT EXECUTE ON DBMS_JAVA TO MILL_PROJECT_ROLE
	
	    *
	
	 ERROR at line 1:
	
	 ORA-04042: procedure, function, package, or package body does not exist
	
	 --
	
	 GRANT EXECUTE ON DBMS_JAVA TO MILL_ADMIN_ROLE
	
	    *
	
	 ERROR at line 1:
	
	 ORA-04042: procedure, function, package, or package body does not exist

Errors Unlocking setting Profiles for DBSNMP or SYSMAN Accounts in Empower PDB	Can't unlock the DBSNMP or SYSMAN account or change the profile. We don't use SYSMAN or DBSNMP for Empower. It is needed for OEM (Oracle Enterprise Manager). This would have to be configured by the customer on the CDB. This error will not cause issues running Empower. ALTER USER DBSNMP PROFILE EMPOWERDEFAULT ACCOUNT UNLOCK * ERROR at line 1: ORA-65146: account cannot be unlocked in a PDB while it is locked in the root -- ALTER USER SYSMAN PROFILE EMPOWERDEFAULT ACCOUNT UNLOCK * ERROR at line 1: ORA-01918: user 'SYSMAN' does not exist

Errors while Running NewTS.sql	The errors are caused since the views are defined in the CDB and you can't change them from the PDB. We no longer need the views for Empower to work correctly so these errors can be ignored. This script creates two synonyms and two views. The views replace the views for USER_TS_QUOTAS and DBA_TS_QUOTAS. We no longer use the USER_TS_QUOTAS view in the Empower code since the removal of project quotas. The DBA_TS_QUOTAS view is still used for getting the space used by a particular Empower project. This is displayed in the Configuration Manager, Projects view and System Monitor (started from View menu in Configuration Manager), Projects tab. The original intent of creating new versions of the views was to improve performance. Oracle has since improved the performance of DBA_TS_QUOTAS so NewTS.SQL is no longer necessary. CREATE OR REPLACE PUBLIC SYNONYM USER_TS_QUOTAS FOR SYS.USER_TS_QUOTAS_EMPOWER * ERROR at line 1: ORA-65040: operation not allowed from within a pluggable database -- CREATE OR REPLACE PUBLIC SYNONYM DBA_TS_QUOTAS * ERROR at line 1: ORA-65040: operation not allowed from within a pluggable database --
_cursor_obsolete_threshold	This should be set by the customer in the CDB as part of the manual installation instructions. If they have greater than 10,000 project they may experience slowness in database response. ALTER system SET "_cursor_obsolete_threshold"=1024 COMMENT='High Version Counts For SQL Statements (>1024) Post Upgrade To 12.2 and Above Causing Database Slow Performance (Doc ID 2431353.1)' SCOPE=spfile * ERROR at line 1: ORA-65040: operation not allowed from within a pluggable database
Errors in RestartDB.sql	After Settings.sql is run you need to restart the database. The error on trying to turn Case Sensitivity back will cause no issues since it was not turned off to start with and Empower needs Case Sensitivity on to run correctly. This script should be updated to remove the "alter system reset sec_case_sensitive_logon scope=spfile". alter system reset sec_case_sensitive_logon scope=spfile * ERROR at line 1: ORA-65040: operation not allowed from within a pluggable database
Errors in MilloginFunction.SQL	Since the policy does not yet exist in the PDB an error is given in when trying to drop the policy. In the next statement the policy is successfully added. Despite the error the correct policy is in place. BEGIN * ERROR at line 1: ORA-28102: policy does not exist ORA-06512: at "SYS.DBMS_RLS_INT", line 161 ORA-06512: at "SYS.DBMS_RLS", line 157 ORA-06512: at line 2

Running FillEmpowerDB.sh on RedHat 7.6 with Oracle 19c	**Errors from Roles.Sql**
	When Roles.sql is run a number of errors are given because we revoke a privilege that the role does not have. These messages do not indicate any failure and are a normal part of running this script. The script can be improved by checking for the privilege before we try to revoke it.
	This is the list of errors from running Roles.sql as part of FillEmpowerDB.sh.
	REVOKE ADMINISTER DATABASE TRIGGER FROM mill_admin_role
	*
	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'
	REVOKE ALTER ANY INDEX FROM mill_admin_role
	*
	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'
	REVOKE ALTER ANY INDEXTYPE FROM mill_admin_role
	*
	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'
	REVOKE ALTER ANY SEQUENCE FROM mill_admin_role
	*
	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'
	REVOKE ALTER ANY TABLE FROM mill_admin_role
	*
	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'
	REVOKE ALTER ANY TRIGGER FROM mill_admin_role
	*
	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'
	REVOKE ALTER ANY TYPE FROM mill_admin_role
	*
	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE ALTER DATABASE FROM mill_admin_role

*

ERROR at line 1:

ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE ALTER RESOURCE COST FROM mill_admin_role

*

ERROR at line 1:

ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE ALTER ROLLBACK SEGMENT FROM mill_admin_role

*

ERROR at line 1:

ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE ALTER SYSTEM FROM mill_admin_role

*

ERROR at line 1:

ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE ANALYZE ANY FROM mill_admin_role

*

ERROR at line 1:

ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE AUDIT ANY FROM mill_admin_role

*

ERROR at line 1:

ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE AUDIT SYSTEM FROM mill_admin_role

*

ERROR at line 1:

ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE BACKUP ANY TABLE FROM mill_admin_role

*

ERROR at line 1:

ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE BECOME USER FROM mill_admin_role

*

ERROR at line 1:

ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE COMMENT ANY TABLE FROM mill_admin_role

*

ERROR at line 1:

ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE CREATE ANY INDEX FROM mill_admin_role

*

ERROR at line 1:

ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE CREATE ANY INDEXTYPE FROM mill_admin_role

*

ERROR at line 1:

ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE CREATE ANY SYNONYM FROM mill_admin_role

*

ERROR at line 1:

ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE CREATE ANY TRIGGER FROM mill_admin_role

*

ERROR at line 1:

ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE CREATE ANY TYPE FROM mill_admin_role

*

ERROR at line 1:

ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE CREATE ANY VIEW FROM mill_admin_role

*

ERROR at line 1:

ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE CREATE DATABASE LINK FROM mill_admin_role

*

ERROR at line 1:

ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE CREATE INDEXTYPE FROM mill_admin_role

*

ERROR at line 1:

ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE CREATE PUBLIC DATABASE LINK FROM mill_admin_role

*

ERROR at line 1:

ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE CREATE PUBLIC SYNONYM FROM mill_admin_role

*

ERROR at line 1:

ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE CREATE ROLE FROM mill_admin_role

*

ERROR at line 1:

ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE CREATE ROLLBACK SEGMENT FROM mill_admin_role

*

ERROR at line 1:

ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE CREATE SYNONYM FROM mill_admin_role

*

ERROR at line 1:

ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE CREATE TABLESPACE FROM mill_admin_role

*

	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'
	REVOKE CREATE TRIGGER FROM mill_admin_role
	*
	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'
	REVOKE CREATE TYPE FROM mill_admin_role
	*
	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'
	REVOKE DEBUG ANY PROCEDURE FROM mill_admin_role
	*
	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'
	REVOKE DEBUG CONNECT SESSION FROM mill_admin_role
	*
	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'
	REVOKE DROP ANY INDEX FROM mill_admin_role
	*
	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'
	REVOKE DROP ANY INDEXTYPE FROM mill_admin_role
	*
	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'
	REVOKE DROP ANY ROLE FROM mill_admin_role
	*
	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE DROP ANY SYNONYM FROM mill_admin_role

*

ERROR at line 1:

ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE DROP ANY TRIGGER FROM mill_admin_role

*

ERROR at line 1:

ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE DROP ANY TYPE FROM mill_admin_role

*

ERROR at line 1:

ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE DROP ANY VIEW FROM mill_admin_role

*

ERROR at line 1:

ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE DROP PUBLIC DATABASE LINK FROM mill_admin_role

*

ERROR at line 1:

ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE DROP PUBLIC SYNONYM FROM mill_admin_role

*

ERROR at line 1:

ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE DROP ROLLBACK SEGMENT FROM mill_admin_role

*

ERROR at line 1:

ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'

REVOKE EXECUTE ANY INDEXTYPE FROM mill_admin_role

*

ERROR at line 1:

	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'
	REVOKE EXECUTE ANY TYPE FROM mill_admin_role
	*
	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'
	REVOKE EXEMPT ACCESS POLICY FROM mill_admin_role
	*
	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'
	REVOKE FLASHBACK ANY TABLE FROM mill_admin_role
	*
	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'
	REVOKE FORCE ANY TRANSACTION FROM mill_admin_role
	*
	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'
	REVOKE FORCE TRANSACTION FROM mill_admin_role
	*
	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'
	REVOKE GLOBAL QUERY REWRITE FROM mill_admin_role
	*
	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'
	REVOKE GRANT ANY OBJECT PRIVILEGE FROM mill_admin_role
	*
	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'
	REVOKE LOCK ANY TABLE FROM mill_admin_role

	*
	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'
	REVOKE ON COMMIT REFRESH FROM mill_admin_role
	*
	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'
	REVOKE QUERY REWRITE FROM mill_admin_role
	*
	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'
	REVOKE RESTRICTED SESSION FROM mill_admin_role
	*
	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'
	REVOKE RESUMABLE FROM mill_admin_role
	*
	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'
	REVOKE UNDER ANY TYPE FROM mill_admin_role
	*
	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'
	REVOKE UNDER ANY VIEW FROM mill_admin_role
	*
	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'
	REVOKE DBA FROM mill_admin_role
	*
	ERROR at line 1:
	ORA-01951: ROLE 'DBA' not granted to 'MILL_ADMIN_ROLE'

	REVOKE CREATE VIEW FROM mill_admin_role
	*
	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'
	REVOKE CREATE CLUSTER FROM mill_admin_role
	*
	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'
	REVOKE CREATE SYNONYM FROM mill_admin_role
	*
	ERROR at line 1:
	ORA-01952: system privileges not granted to 'MILL_ADMIN_ROLE'