Oracle Setup for Archivists’ Toolkit
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-- The archivist toolkit application is not setup to handle the way Oracle handles permissions from user tables and shares with grants to other users.
-- When setup as described originally and running the program as atuser, the program could not find any tables because all tables are owned by atadmin.
-- By performing a after logon trigger and setting the default schema for atuser to admin, this is accomplished without any additional coding.
-- The user table is excluded from atuser permissions so that atadmin still controls who can access the application.

-- http://archiviststoolkit.org/support/CreatingUserAccounts

--Oracle:

-- 1) To create the administrative account (eg. ATadmin) the sql command is:
-- USER SQL
CREATE USER atadmin IDENTIFIED BY your_password DEFAULT TABLESPACE "ARCHIVIST_TOOLKIT" TEMPORARY TABLESPACE "TEMP";

-- QUOTAS
ALTER USER atadmin QUOTA UNLIMITED ON ARCHIVIST_TOOLKIT;

-- ROLES
GRANT "CONNECT" TO atadmin ;

-- SYSTEM PRIVILEGES
GRANT CREATE TRIGGER TO atadmin ;
GRANT CREATE SEQUENCE TO atadmin ;
GRANT CREATE TABLE TO atadmin ;
GRANT CREATE JOB TO atadmin ;
GRANT CREATE PROCEDURE TO atadmin ;
GRANT CREATE SYNONYM TO atadmin ;
GRANT CREATE VIEW TO atadmin ;
GRANT CREATE PUBLIC SYNONYM TO atadmin ;
GRANT CREATE SESSION TO atadmin ;
GRANT CREATE PUBLIC DATABASE LINK TO atadmin ;
GRANT CREATE DATABASE LINK TO atadmin ;

-- At this point the Oracle database can be initialized and the atadmin tables will be created.
-- http://archiviststoolkit.org/support/InitializeDatabase

-- Database Connection Information for initializing the database:
-- connection URL:
jdbc:oracle:thin:@host_name:port_number:service_name

-- To create the user account (eg. ATuser) the sql command is
-- USER SQL
CREATE USER atuser IDENTIFIED BY your_password DEFAULT TABLESPACE "ARCHIVIST_TOOLKIT" TEMPORARY TABLESPACE "TEMP";

-- QUOTAS
ALTER USER atuser QUOTA UNLIMITED ON ARCHIVIST_TOOLKIT;

-- ROLES
GRANT "CONNECT" TO atuser;
GRANT CREATE TRIGGER TO "ATUSER"
grant alter session to "ATUSER";

-- SYSTEM PRIVILEGES
GRANT DELETE ON "ATADMIN"."ACCESSIONS" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."ACCESSIONS" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."ACCESSIONS" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."ACCESSIONS" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."ACCESSIONSLOCATIONS" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."ACCESSIONSLOCATIONS" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."ACCESSIONSLOCATIONS" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."ACCESSIONSLOCATIONS" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."ACCESSIONSRESOURCES" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."ACCESSIONSRESOURCES" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."ACCESSIONSRESOURCES" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."ACCESSIONSRESOURCES" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."ARCHDESCPHYSICALDESCRIPTIONS" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."ARCHDESCPHYSICALDESCRIPTIONS" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."ARCHDESCPHYSICALDESCRIPTIONS" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."ARCHDESCPHYSICALDESCRIPTIONS" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."ARCHDESCRIPTIONDATES" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."ARCHDESCRIPTIONDATES" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."ARCHDESCRIPTIONDATES" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."ARCHDESCRIPTIONDATES" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."ARCHDESCRIPTIONINSTANCES" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."ARCHDESCRIPTIONINSTANCES" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."ARCHDESCRIPTIONINSTANCES" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."ARCHDESCRIPTIONINSTANCES" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."ARCHDESCRIPTIONNAMES" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."ARCHDESCRIPTIONNAMES" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."ARCHDESCRIPTIONNAMES" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."ARCHDESCRIPTIONNAMES" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."ARCHDESCRIPTIONREPEATINGDATA" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."ARCHDESCRIPTIONREPEATINGDATA" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."ARCHDESCRIPTIONREPEATINGDATA" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."ARCHDESCRIPTIONREPEATINGDATA" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."ARCHDESCRIPTIONSUBJECTS" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."ARCHDESCRIPTIONSUBJECTS" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."ARCHDESCRIPTIONSUBJECTS" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."ARCHDESCRIPTIONSUBJECTS" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."ASSESSMENTS" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."ASSESSMENTS" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."ASSESSMENTS" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."ASSESSMENTS" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."ASSESSMENTSACCESSIONS" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."ASSESSMENTSACCESSIONS" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."ASSESSMENTSACCESSIONS" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."ASSESSMENTSACCESSIONS" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."ASSESSMENTSDIGITALOBJECTS" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."ASSESSMENTSDIGITALOBJECTS" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."ASSESSMENTSDIGITALOBJECTS" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."ASSESSMENTSDIGITALOBJECTS" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."ASSESSMENTSRESOURCES" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."ASSESSMENTSRESOURCES" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."ASSESSMENTSRESOURCES" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."ASSESSMENTSRESOURCES" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."ATPLUGINDATA" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."ATPLUGINDATA" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."ATPLUGINDATA" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."ATPLUGINDATA" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."BIBITEMS" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."BIBITEMS" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."BIBITEMS" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."BIBITEMS" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."CHRONOLOGYITEMS" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."CHRONOLOGYITEMS" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."CHRONOLOGYITEMS" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."CHRONOLOGYITEMS" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."CONSTANTS" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."CONSTANTS" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."CONSTANTS" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."CONSTANTS" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."DATABASEFIELDS" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."DATABASEFIELDS" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."DATABASEFIELDS" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."DATABASEFIELDS" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."DATABASETABLES" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."DATABASETABLES" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."DATABASETABLES" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."DATABASETABLES" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."DEACCESSIONS" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."DEACCESSIONS" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."DEACCESSIONS" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."DEACCESSIONS" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."DEFAULTVALUES" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."DEFAULTVALUES" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."DEFAULTVALUES" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."DEFAULTVALUES" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."DIGITALOBJECTS" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."DIGITALOBJECTS" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."DIGITALOBJECTS" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."DIGITALOBJECTS" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."EVENTS" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."EVENTS" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."EVENTS" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."EVENTS" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."FILEVERSIONS" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."FILEVERSIONS" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."FILEVERSIONS" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."FILEVERSIONS" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."INDEXITEMS" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."INDEXITEMS" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."INDEXITEMS" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."INDEXITEMS" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."INLINETAGATTRIBUTES" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."INLINETAGATTRIBUTES" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."INLINETAGATTRIBUTES" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."INLINETAGATTRIBUTES" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."INLINETAGS" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."INLINETAGS" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."INLINETAGS" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."INLINETAGS" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."LISTDEFINITIONITEMS" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."LISTDEFINITIONITEMS" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."LISTDEFINITIONITEMS" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."LISTDEFINITIONITEMS" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."LISTORDEREDITEMS" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."LISTORDEREDITEMS" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."LISTORDEREDITEMS" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."LISTORDEREDITEMS" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."LOCATIONSTABLE" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."LOCATIONSTABLE" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."LOCATIONSTABLE" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."LOCATIONSTABLE" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."LOOKUPLIST" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."LOOKUPLIST" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."LOOKUPLIST" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."LOOKUPLIST" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."LOOKUPLISTITEMS" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."LOOKUPLISTITEMS" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."LOOKUPLISTITEMS" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."LOOKUPLISTITEMS" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."NAME" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."NAME" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."NAME" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."NAME" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."NONPREFERREDNAME" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."NONPREFERREDNAME" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."NONPREFERREDNAME" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."NONPREFERREDNAME" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."NOTESETCTYPES" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."NOTESETCTYPES" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."NOTESETCTYPES" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."NOTESETCTYPES" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."RDESCREENSE" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."RDESCREENSE" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."RDESCREENSE" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."RDESCREENSE" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."RDESCREENSEPANELITEMS" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."RDESCREENSEPANELITEMS" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."RDESCREENSEPANELITEMS" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."RDESCREENSEPANELITEMS" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."RDESCREENSEPANELS" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."RDESCREENSEPANELS" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."RDESCREENSEPANELS" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."RDESCREENSEPANELS" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."RDESCREENPANELS" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."RDESCREENPANELS" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."RECORDLOCKS" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."RECORDLOCKS" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."RECORDLOCKS" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."RECORDLOCKS" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."REPOSITORIES" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."REPOSITORIES" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."REPOSITORIES" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."REPOSITORIES" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."REPOSITORYNOTESDEFAULTVALUES" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."REPOSITORYNOTESDEFAULTVALUES" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."REPOSITORYNOTESDEFAULTVALUES" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."REPOSITORYNOTESDEFAULTVALUES" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."REPOSITORYSTATISTICS" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."REPOSITORYSTATISTICS" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."REPOSITORYSTATISTICS" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."REPOSITORYSTATISTICS" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."RESOURCES" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."RESOURCES" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."RESOURCES" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."RESOURCES" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."RESOURCESCOMPONENTS" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."RESOURCESCOMPONENTS" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."RESOURCESCOMPONENTS" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."RESOURCESCOMPONENTS" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."SESSIONS" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."SESSIONS" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."SESSIONS" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."SESSIONS" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."SIMPLEREPEATABLENOTES" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."SIMPLEREPEATABLENOTES" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."SIMPLEREPEATABLENOTES" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."SIMPLEREPEATABLENOTES" TO "ATUSER";
GRANT DELETE ON "ATADMIN"."SUBJECTS" TO "ATUSER";
GRANT INSERT ON "ATADMIN"."SUBJECTS" TO "ATUSER";
GRANT SELECT ON "ATADMIN"."SUBJECTS" TO "ATUSER";
GRANT UPDATE ON "ATADMIN"."SUBJECTS" TO "ATUSER";

-- Only enable if you want atuser to update atadmin.users table

-- Queries to generate required privileges:
-- Note the "user" table is excluded

SELECT 'GRANT DELETE ON "" || u.table_name || "" TO ATUSER;' FROM user_tables u
WHERE NOT EXISTS (SELECT '1'
    FROM   ALL_TAB_PRIVS A
    WHERE  a.grantee    = 'ATUSER'
    AND    A.PRIVILEGE  = 'INSERT'
    AND    A.TABLE_NAME = U.TABLE_NAME)
    AND    a.table_name != 'USERS';

SELECT 'GRANT INSERT ON "' || u.table_name || '" TO ATUSER;'
FROM   user_tables u
WHERE NOT EXISTS (SELECT '1'
    FROM   ALL_TAB_PRIVS A
    WHERE  a.grantee    = 'ATUSER'
    AND    A.PRIVILEGE  = 'INSERT'
    AND    A.TABLE_NAME = U.TABLE_NAME)
    AND    a.table_name != 'USERS';

SELECT 'GRANT SELECT ON "' || u.table_name || '" TO ATUSER;'
FROM   user_tables u
WHERE NOT EXISTS (SELECT '1'
    FROM   ALL_TAB_PRIVS A
    WHERE  a.grantee    = 'ATUSER'
    AND    A.PRIVILEGE  = 'INSERT'
    AND    A.TABLE_NAME = U.TABLE_NAME)
    AND    a.table_name != 'USERS';

SELECT 'GRANT UPDATE ON "' || u.table_name || '" TO ATUSER;'
FROM   user_tables u
WHERE NOT EXISTS (SELECT '1'
    FROM   ALL_TAB_PRIVS A
    WHERE  a.grantee    = 'ATUSER'
    AND    A.PRIVILEGE  = 'INSERT'
    AND    A.TABLE_NAME = U.TABLE_NAME)
    AND    a.table_name != 'USERS';

-- Sequences
grant select on "ATDMIN"."HIBERNATE_SEQUENCE" TO "ATUSER";
grant select on "ATDMIN"."INSTANCE_SEQUENCE" TO "ATUSER";
grant select on "ATDMIN"."NAME_SEQUENCE" TO "ATUSER";
grant select on "ATDMIN"."REPEATING_DATA_SEQUENCE" TO "ATUSER";
grant select on "ATDMIN"."STRUCTURED_DATA_SEQUENCE" TO "ATUSER";

-- Queries to generate required priviledges:
SELECT 'GRANT SELECT ON "' || U.SEQUENCE_NAME || '" TO ATUSER;'
FROM   USER_SEQUENCES U;

-- This section is needed to allow atuser to access atadmin.tables within the application. Otherwise Archvist Toolkit fails when trying to find tables, because it is looking for atuser.table_name not atdmin.table_name

-- as sys grant this privilege to allow atuser to seamlessly access atadmin objects.
grant ADMINISTER DATABASE TRIGGER to "ATUSER";
create or replace
TRIGGER afterlogon_set_current_schema
AFTER LOGON on DATABASE
BEGIN
  -- Must have ADMINISTER DATABASE TRIGGER priv
  -- grant ADMINISTER DATABASE TRIGGER to "ATUSER";
  -- revoke after done
  -- REVOKE ADMINISTER DATABASE TRIGGER FROM "ATUSER"
  IF ( USER='ATUSER') THEN
    EXECUTE IMMEDIATE 'alter session set current_schema=atadmin';
  END IF;
END;

-- as sys remove this privilege after trigger is created to remove unnecessary risks.
REVOKE ADMINISTER DATABASE TRIGGER FROM "ATUSER";