Lab Instructions: Creating a CDB Named `drlee31` and Cleaning Up Existing Databases

In this lab, I will guide you through the process of deleting all existing databases except for `fenagodb` and then creating a new Container Database (CDB) named `drlee31`.

Prerequisites

- Ensure Oracle Database software is installed.
- Ensure Oracle environment variables are set (`ORACLE_HOME`, `PATH`, etc.).
- Sufficient privileges to manage databases.

Part 1: Deleting All Databases Except for `fenagodb`

Step 1: Identify Existing Databases

1. **Check the existing databases:**

```
lsnrctl status
```

2. **List the databases:**

```
ps -ef | grep pmon
```

Identify the databases other than `fenagodb`.

Step 2: Delete the Databases

For each database except `fenagodb`, perform the following steps:

1. **Set the Oracle SID:**

```
export ORACLE_SID=<database_sid>
```

2. **Use DBCA to delete the database:**

```
$ORACLE_HOME/bin/dbca -silent -deleteDatabase \
-sourceDB <database_sid> \
-sysPassword Welcome_1
```

Repeat these steps for each database identified in Step 1.

Part 2: Creating a CDB Named `drlee31`

Step 1: Set Up the Environment

1. **Set the Oracle SID for the new CDB:**

```
export ORACLE_SID=drlee31
```

2. **Create the `initdrlee31.ora` file:**

```
vi $ORACLE_HOME/dbs/initdrlee31.ora
```

Add the following parameters:

```
DB_NAME=drlee31
CONTROL_FILES=(/u01/app/oracle/oradata/drlee31/control01.ctl,
/u01/app/oracle/oradata/drlee31/control02.ctl)
ENABLE_PLUGGABLE_DATABASE=TRUE
```

Step 2: Start the Instance

1. **Connect to SQL*Plus as SYSDBA:**

```
sqlplus / as sysdba
```

2. **Start the instance in NOMOUNT mode:**

```
STARTUP NOMOUNT;
```

Step 3: Create the CDB

1. **Create the CDB:**

```
CREATE DATABASE drlee31
USER SYS IDENTIFIED BY Welcome_1
USER SYSTEM IDENTIFIED BY Welcome_1
LOGFILE GROUP 1 ('/u01/app/oracle/oradata/drlee31/redo1a.log',
'/u02/app/oracle/oradata/drlee31/redo1b.log') SIZE 100M,
        GROUP 2 ('/u01/app/oracle/oradata/drlee31/redo2a.log',
'/u02/app/oracle/oradata/drlee31/redo2b.log') SIZE 100M
CHARACTER SET AL32UTF8
NATIONAL CHARACTER SET AL16UTF16
EXTENT MANAGEMENT LOCAL
DATAFILE '/u01/app/oracle/oradata/drlee31/system01.dbf' SIZE 325M REUSE
SYSAUX DATAFILE '/u01/app/oracle/oradata/drlee31/sysaux01.dbf' SIZE 325M REUSE
DEFAULT TEMPORARY TABLESPACE temp TEMPFILE
'/u01/app/oracle/oradata/drlee31/temp01.dbf' SIZE 20M REUSE
UNDO TABLESPACE undotbs DATAFILE
'/u01/app/oracle/oradata/drlee31/undotbs01.dbf' SIZE 200M REUSE
ENABLE PLUGGABLE DATABASE
SEED FILE_NAME_CONVERT=('/u01/app/oradata/drlee31/',
'/u01/app/oracle/oradata/drlee31/pdbseed/');
```

Step 4: Run the CDB Scripts

1. **Run the CDB scripts:**

```
@$ORACLE_HOME/rdbms/admin/catalog.sql
@$ORACLE_HOME/rdbms/admin/catproc.sql
```

2. **Create the pluggable database:**

```
CREATE PLUGGABLE DATABASE pdb1 ADMIN USER pdbadmin IDENTIFIED BY Welcome_1
FILE_NAME_CONVERT = ('/u01/app/oracle/oradata/drlee31/pdbseed/',
'/u01/app/oracle/oradata/drlee31/pdb1/');
```

3. **Open the PDB:**

```
ALTER PLUGGABLE DATABASE pdb1 OPEN;
```

4. **Save the state of the PDB:**

```
ALTER PLUGGABLE DATABASE pdb1 SAVE STATE;
```

Summary

In this lab, you have learned how to delete all existing databases except for `fenagodb` and create a new CDB named `drlee31`. You have also created a pluggable database `pdb1` within the `drlee31` CDB. This process is crucial for managing Oracle databases efficiently in various environments.