# Practices for Lesson 21: Using Flashback Database

Practices for Lesson 21: Overview

Overview

In these practices, you will enable flashback logging and perform flashback database.

Practice 21-1: Enabling Flashback Logging

Overview

In this practice, you will enable flashback logging.

Assumptions

You have two terminal windows open in which you are logged in as the oracle OS user and

/home/oracle/labs/DBMod\_Flashback is the current directory. Each terminal window is connected to the orclpdb1 instance.

Tasks

Determine whether flashback logging is enabled while still connected to the container database.

Enable flashback logging and verify.

In preparation for the next practice, back up your orclpdb1 database, remove obsolete backups, and ensure that no failures are listed. Then exit RMAN.

Alter your session to point to the orclpdb1 database and create a guaranteed restore point. Check your current FLASHBACK\_ON status.

Note that guaranteed restore points affect your space usage.

Keep the terminal windows open for the next practice.

Practice 21-2: Performing Flashback Database

Overview

In this practice, you will flash back your pluggable database after some incorrect updates to the database. *This practice is for learning purposes. If you had a scenario similar to this in a production environment, you would probably choose a different solution to limit your flashback to the affected objects, rather than choose a flashback of the entire pluggable database.*

Assumptions

You have completed practice 3-1.

You have two terminal windows open in which you are logged in as the oracle OS user and

/home/oracle/labs/DBMod\_Flashback is the current directory. Each terminal window is connected to the orclpdb1 instance.

Tasks

There are several ways in which you can perform a flashback database operation. You can use a guaranteed restore point, SCN, time value, threads, and so on. This example uses the SCN, but you could also use the RP1 restore point you created in the Practice 3-1 Step 5.

Determine your current SCN. *You will need to use it in a later practice step*.

View HR data. You will use this information for comparison during this practice.

Determine the sum of the SALARY column in the HR.EMPLOYEES table.

Determine the total number of employees in department 90.

Execute the lab\_03\_02\_03.sql script to update tables in the HR schema. It creates issues from which you will “recover” by flashing back the database in this practice.

Commit your data and determine the current SCN.

Query the data in the HR schema again and compare the results to the values you received in the queries in step 2.

Determine the sum of the SALARY column in the HR.EMPLOYEES table.

Determine the total number of employees in department 90, and then exit SQL\*Plus.

You need to restore the pluggable database so that the data is as it was when you started this practice. For training purposes, use Flashback Database for this operation.

Close the pluggable database orclpdb1.

Use the FLASHBACK PLUGGABLE DATABASE command to flash back the database to the SCN you noted in step 1.

Attempt to open the pluggable database orclpdb1.

Open the pluggable database orclpdb1 using the resetlogs option.

Switch to the ORCLPDB1 container and verify that the database was flashed back correctly by querying the HR.EMPLOYEES table again. The values should match the values you obtained in the queries in step 2.

Drop the RP1 guaranteed restore point. Then exit SQL\*Plus.

Close all terminal windows open for this practice.