

# UNIVERSIDAD DE GUADALAJARA

CENTRO UNIVERSITARIO DE CIENCIAS EXACTAS E INGENIERÍA

DEPARTAMENTO DE CIENCIAS COMPUTACIONALES

Administración de Bases de Datos

Respaldo inconsistente o en caliente



**Alumno:** Citlalli Ruiz Puga

**Código:** 216241881

**Sección:** D01

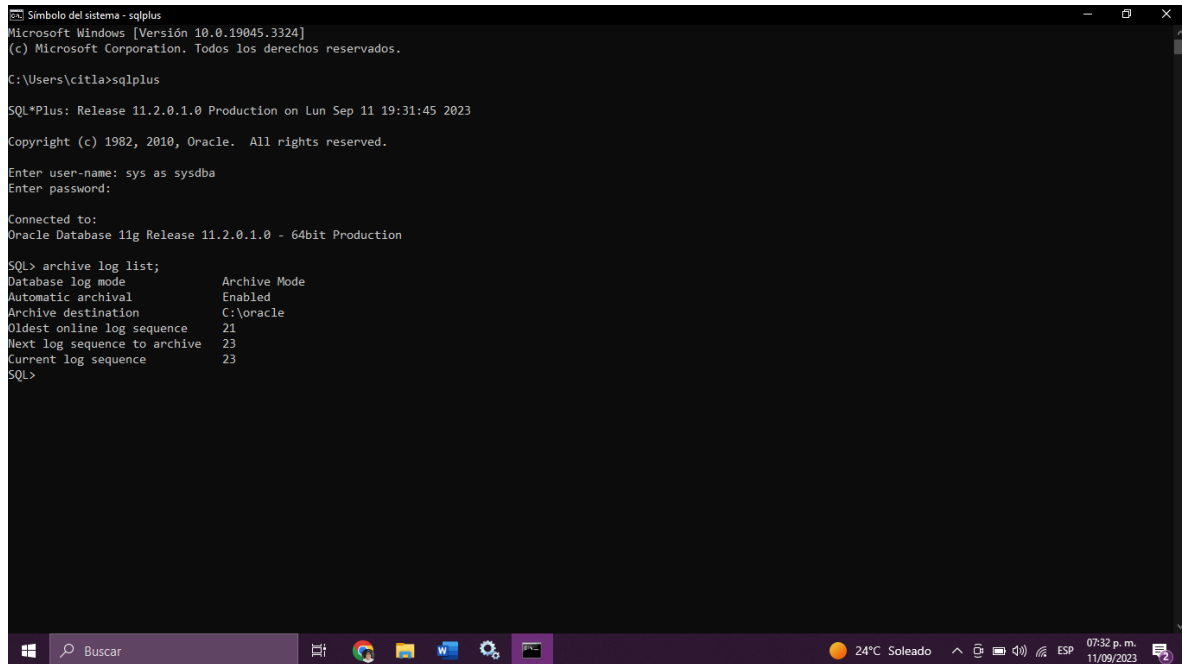
**Profesor:** Sergio Javier Uribe Nava

**Carrera:** Ingeniería Informática

**Fecha:** 11/09/2023

## 1.- Asegurarse que la base de datos está en modo archive log

Desde la practica anterior ya debimos de tener el modo archive log pero aun asi debemos asegurarnos de tenerlo:



```
Microsoft Windows [Versión 10.0.19045.3324]
(c) Microsoft Corporation. Todos los derechos reservados.

C:\Users\citla>sqlplus

SQL*Plus: Release 11.2.0.1.0 Production on Lun Sep 11 19:31:45 2023

Copyright (c) 1982, 2010, Oracle. All rights reserved.

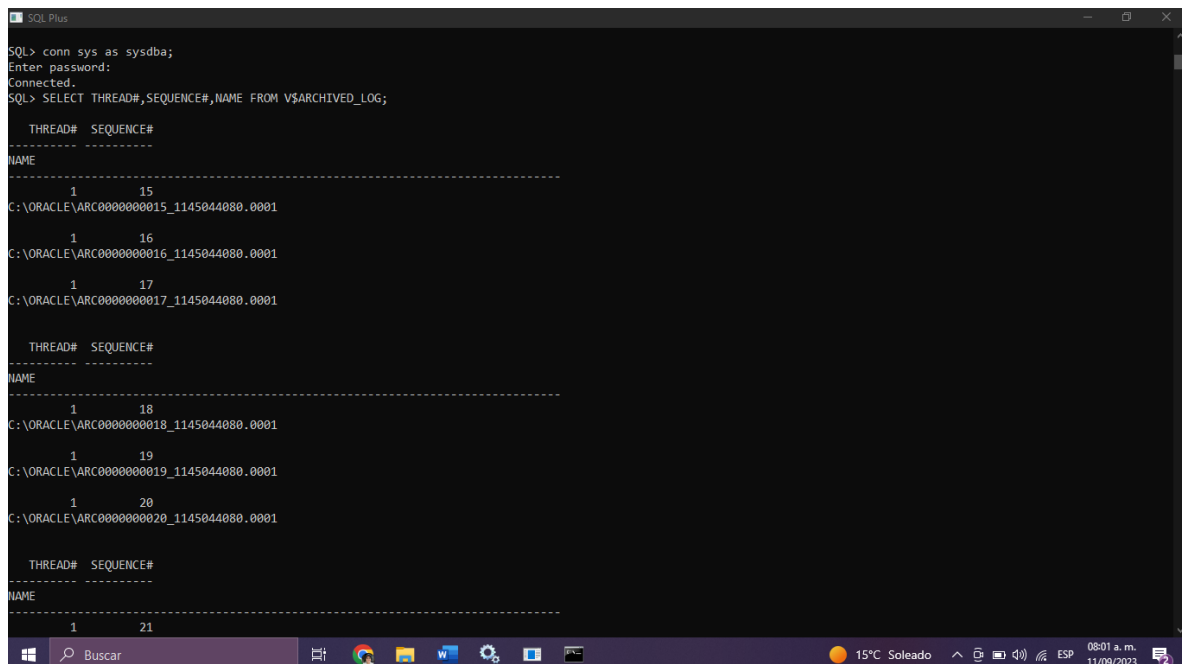
Enter user-name: sys as sysdba
Enter password:

Connected to:
Oracle Database 11g Release 11.2.0.1.0 - 64bit Production

SQL> archive log list;
Database log mode                Archive Mode
Automatic archival                Enabled
Archive destination              C:\oracle
Oldest online log sequence       21
Next log sequence to archive     23
Current log sequence             23
SQL>
```

## 2.- Consultar los archivos a respaldar:

Debemos consultar los archivos que debemos respaldar que son los archive log, redo log y el respaldo en frio que ya habíamos realizado:



```
SQL> conn sys as sysdba;
Enter password:
Connected.
SQL> SELECT THREAD#,SEQUENCE#,NAME FROM V$ARCHIVED_LOG;

  THREAD# SEQUENCE#
-----
NAME
-----
1         15
C:\ORACLE\ARC0000000015_1145044080.0001
1         16
C:\ORACLE\ARC0000000016_1145044080.0001
1         17
C:\ORACLE\ARC0000000017_1145044080.0001
  THREAD# SEQUENCE#
-----
NAME
-----
1         18
C:\ORACLE\ARC0000000018_1145044080.0001
1         19
C:\ORACLE\ARC0000000019_1145044080.0001
1         20
C:\ORACLE\ARC0000000020_1145044080.0001
  THREAD# SEQUENCE#
-----
NAME
-----
1         21
```

```
SQL Plus
NAME
-----
1      18
C:\ORACLE\ARC000000018_1145044080.0001

1      19
C:\ORACLE\ARC000000019_1145044080.0001

1      20
C:\ORACLE\ARC000000020_1145044080.0001

THREAD# SEQUENCE#
-----
NAME
-----
1      21
C:\ORACLE\ARC000000021_1145044080.0001

7 rows selected.

SQL> alter database begin backup;

Database altered.

SQL> alter database end backup;

Database altered.

SQL> ALTER SYSTEM ARCHIVE LOG CURRENT;

System altered.

SQL>
```

### 3.- Poner la base de datos en modo backup

Para empezar a hacer el respaldo inconsistente debemos de alterar la base de datos indicándole que “empezaremos” con dicha acción:

```
SQL Plus
NAME
-----
1      18
C:\ORACLE\ARC000000018_1145044080.0001

1      19
C:\ORACLE\ARC000000019_1145044080.0001

1      20
C:\ORACLE\ARC000000020_1145044080.0001

THREAD# SEQUENCE#
-----
NAME
-----
1      21
C:\ORACLE\ARC000000021_1145044080.0001

7 rows selected.

SQL> alter database begin backup;

Database altered.

SQL> alter database end backup;

Database altered.

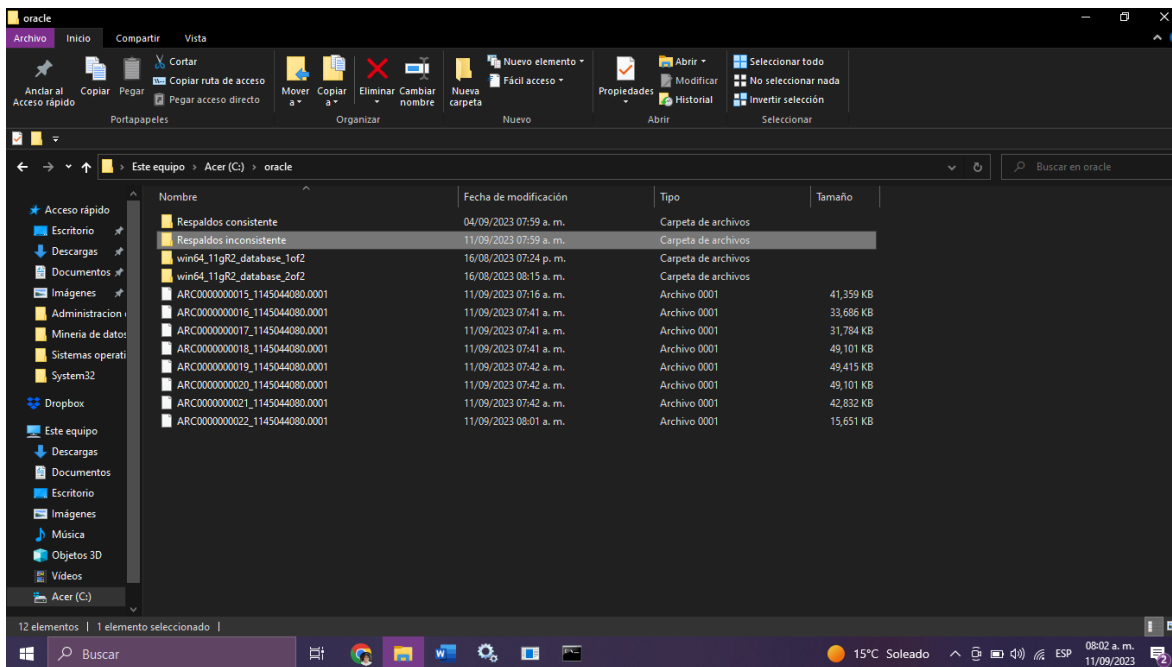
SQL> ALTER SYSTEM ARCHIVE LOG CURRENT;

System altered.

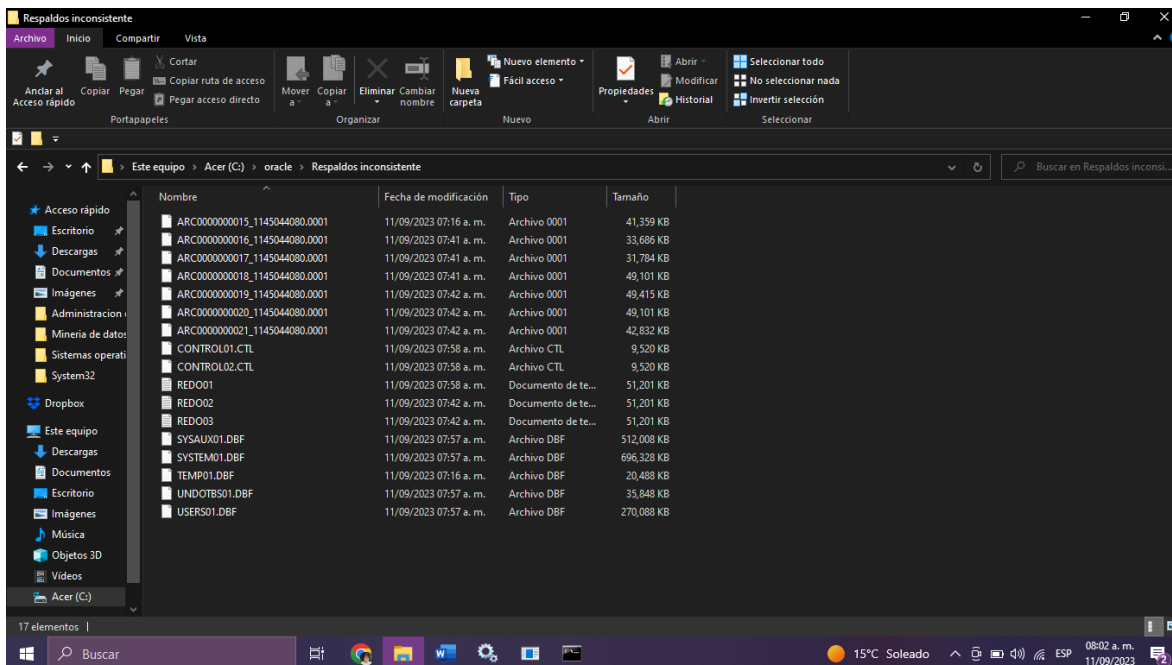
SQL>
```

#### 4.- Copiar los archivos datafile (DBF) , redo log file (LOG), archive log (.ARC) y control file (CTL) a nivel SO

Crearemos una carpeta donde almacenaremos el respaldo:

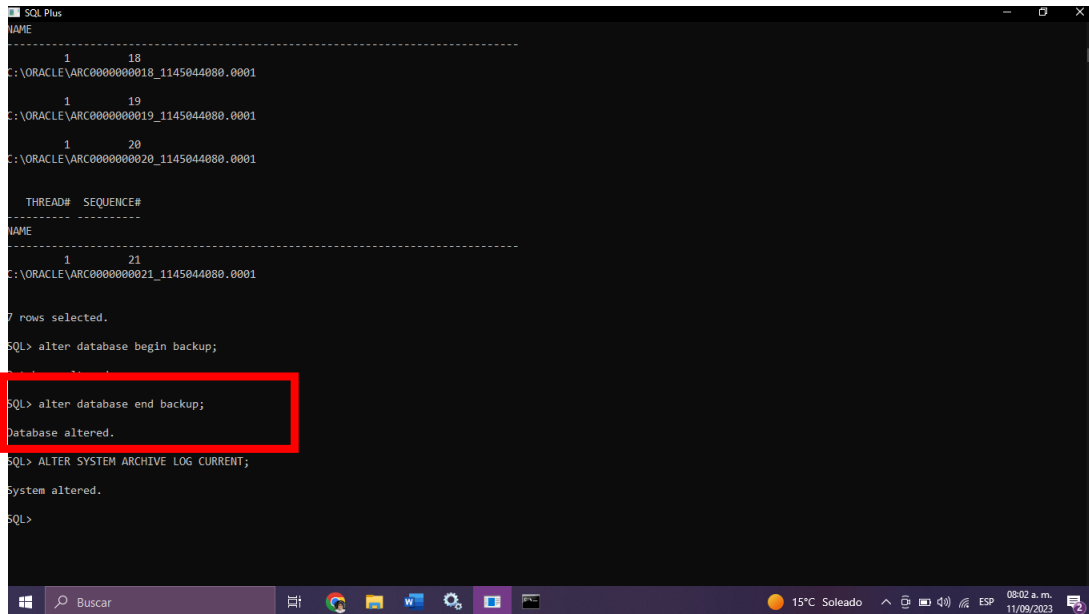


Copiaremos los archivos a respaldar en dicha carpeta:



## 5.- Quitar el modo backup en la base de datos

Indicaremos a la base de datos que hemos “terminado” el respaldo inconsistente:



A screenshot of a SQL Plus terminal window. The window title is 'SQL Plus'. It shows a list of database files with columns for FILE#, NAME, and SIZE. Below this, it shows '7 rows selected.' followed by the command 'SQL> alter database begin backup;' and its output 'Database altered.'. The next command 'SQL> alter database end backup;' is highlighted with a red rectangle, with the output 'Database altered.' below it. This is followed by 'SQL> ALTER SYSTEM ARCHIVE LOG CURRENT;' and 'System altered.'. The terminal ends with 'SQL>'. The Windows taskbar is visible at the bottom with the date 11/09/2023 and time 08:02 a.m.

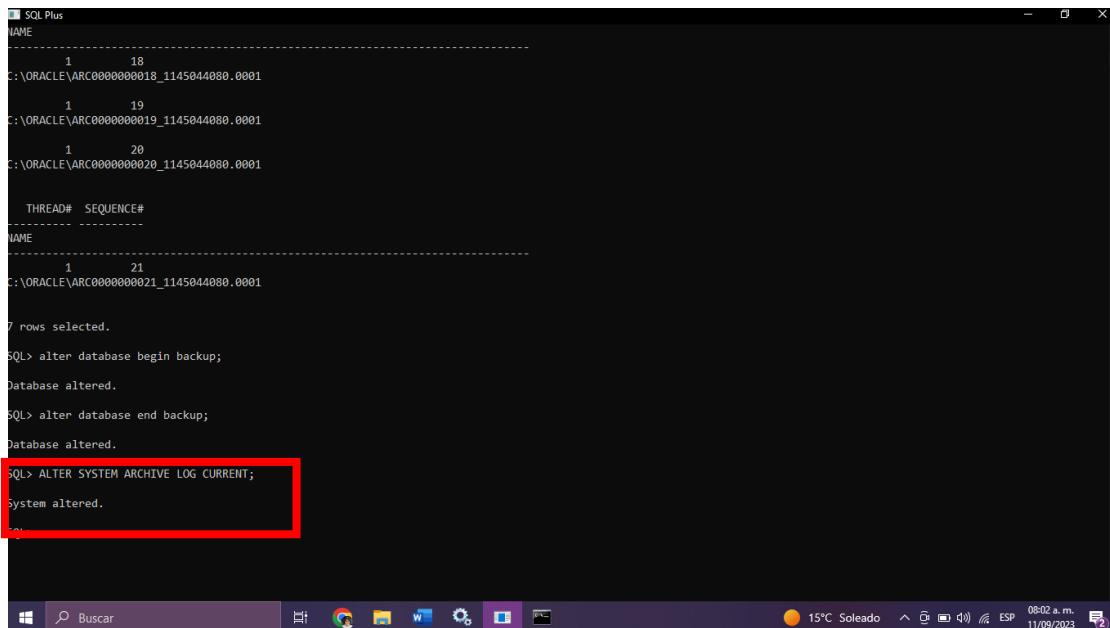
```
SQL Plus
NAME
-----
FILE# NAME SIZE
-----
1 18 C:\ORACLE\ARC000000018_1145044080.0001
1 19 C:\ORACLE\ARC000000019_1145044080.0001
1 20 C:\ORACLE\ARC000000020_1145044080.0001

THREAD# SEQUENCE#
-----
NAME
-----
1 21 C:\ORACLE\ARC000000021_1145044080.0001

7 rows selected.
SQL> alter database begin backup;
Database altered.
SQL> alter database end backup;
Database altered.
SQL> ALTER SYSTEM ARCHIVE LOG CURRENT;
System altered.
SQL>
```

## 6.- ALTER SYSTEM ARCHIVE LOG CURRENT

Usaremos este comando para para archivar lo último que queda en archivo LOG actual y copiarlo al respaldo, con esto finalizara el respaldo inconsistente:



A screenshot of a SQL Plus terminal window, similar to the one above. It shows the same file list and '7 rows selected.' message. The command 'SQL> alter database begin backup;' is followed by 'Database altered.'. Then 'SQL> alter database end backup;' is followed by 'Database altered.'. The command 'SQL> ALTER SYSTEM ARCHIVE LOG CURRENT;' is highlighted with a red rectangle, with the output 'System altered.' below it. The terminal ends with 'SQL>'. The Windows taskbar is visible at the bottom with the date 11/09/2023 and time 08:02 a.m.

```
SQL Plus
NAME
-----
FILE# NAME SIZE
-----
1 18 C:\ORACLE\ARC000000018_1145044080.0001
1 19 C:\ORACLE\ARC000000019_1145044080.0001
1 20 C:\ORACLE\ARC000000020_1145044080.0001

THREAD# SEQUENCE#
-----
NAME
-----
1 21 C:\ORACLE\ARC000000021_1145044080.0001

7 rows selected.
SQL> alter database begin backup;
Database altered.
SQL> alter database end backup;
Database altered.
SQL> ALTER SYSTEM ARCHIVE LOG CURRENT;
System altered.
SQL>
```

## Bibliografía:

- *Google Slides: Sign-in.* (s. f.).  
[https://docs.google.com/presentation/d/1tYtlfyvChM0eTZGCmv7da\\_wP1MKMrU6oVc9XH-komx4/edit#slide=id.g9d48c3a1de\\_0\\_274](https://docs.google.com/presentation/d/1tYtlfyvChM0eTZGCmv7da_wP1MKMrU6oVc9XH-komx4/edit#slide=id.g9d48c3a1de_0_274)