LAPORAN PRAKTIKUM

Administrasi Basis Data Praktikum 8



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Practice 8: Managing Data and Concurrency

 Make an uncommitted update to the row in question by running the lab_08_01.sql script. Do not worry if the session seems to "hang"—this is the condition you are trying to create.

```
SOL> @lab 08 01.sql
     SQL> -- Oracle Database 10g: Administration Workshop I
    SQL> -- Oracle Server Technologies - Curriculum Development
    501 > --
    SQL> -- ***Training purposes only***
    SQL> -- ***Not appropriate for production use***
    SQL> -- Create two application users, connect as one of them, and lock a row in SQL> -- HR's EMPLOYEES table
    SQL> --
    SQL>
SQL> prompt Creating users...
    Creating users...

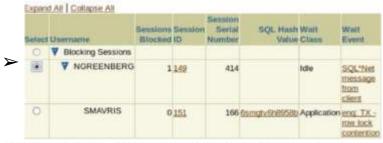
SQL> -- Drop the users just in case they already exist

SQL> drop user smavris;
    drop user smavris
    ERROR at line 1:
    ORA-01918: user 'SMAVRIS' does not exist
    Elapsed: 80:88:88.12
50L> drop user ngreenberg;
    Elapsed: 80:00:80.02
    50L>
50L> -- Now connect in as Nancy Greenberg (Department Manager) and update John C
    hen's record.
    SQL> prompt Connecting as ngreenberg ...
    Connecting as ngreenberg
    SOL> connect ngreenberg/oracle1#
    Connected.
    SQL> set echo on
    SQL> show user
USER is "NGREENBERG"
    SQL> update hr.employees set phone number='650.555.1212' where employee id = 110
    1 row updated.
    Elapsed: 00:00:00.04
    SQL> prompt User "ngreenberg" made an update and left it uncommitted in this ses
    User "ngreenberg" made an update and left it uncommitted in this session.
    50E>
    50L>
```

 Make an attempt to update the same row in a separate session, by running, in a separate XTerm window, the lab_08_02.sql script. Make sure you see the message "Update is being attempted now" before moving on.

```
5QL> @lab 08 02.sql
SQL> -- Oracle Database 10g: Administration Workshop I
SQL> -- Oracle Server Technologies - Curriculum Development
501 > --
5QL> -- ***Training purposes only***
SQL> -- ***Not appropriate for production use***
SQL> --
SQL> -- Lock a row in HR's EMPLOYEES table
SQL> -- Because Nancy Greenberg has already locked this record, this statement
SQL> -- will appear to "hang" as it waits for Nancy to either commit or rollba
SQL> prompt Sleeping for 20 seconds to ensure first process gets the lock first.
Sleeping for 20 seconds to ensure first process gets the lock first.
SQL> begin
  2 sys.dbms lock.sleep(20);
  3 end;
sys.dbms lock.sleep(20);
ERROR at line 2:
ORA-06550: line 2, column 1:
PLS-00201: identifier 'SYS.DBMS_LOCK' must be declared 
ORA-06550: line 2, column 1: 
PL/SQL: Statement ignored
```

Using the Blocking Sessions link on the Performance page, detect which session is causing the locking conflict.



4. What was the last SQL statement that the blocking session executed?



5. Resolve the conflict in favor of the user who complained, by killing the blocking session. What SQL statement resolves the conflict?

```
Show DDL

ALTER SYSTEM KILL SESSION '149,414' IMMEDIATE

Return

Return
```

Return to the SQL*Plus command window, and note that SMAVRIS's update has now completed successfully. It may take a few seconds for the success message to appear. [oracle@sqtrain labs]s sqlplus dba1

SQL*Plus: Release 10.2.0.1.0 - Production on Sat Apr 15 19:48:09 2023

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Enter password:

Connected to:
Oracle Database 10g Enterprise Edition Release 10.2.0.1.0 - Production With the Partitioning, OLAP and Data Mining options

SQL> @lab 08 02.sql
Sleeping for 20 seconds to ensure first process gets the lock first.

PL/SQL procedure successfully completed.

Sleep is finished.
Connected.
USER is "SMAVRIS"
Update is being attempted now.

1 row updated.

Update is completed.

SQL>