Finding Oracle Blocking Sessions and Locked Objects.

Posted on June 17, 2014 by Arif Hussain

These querys come in very handy to me when the users call with errors like "Could not reserve record". Since global session views also exist on non RAC databases, these querys can also be used on non RAC databases.

Query to find locked object: This query provides all information about the locked object and session which is locking it.

```
SELECT    s.inst_id instance_id, s.SID, s.serial#, p.username
os_process_owner, p.pid, p.spid os_process_id,
          l.session_id, l.oracle_username,  l.os_user_name, l.process,
          DECODE (locked_mode,
                  0, 'None',
                  1, 'NULL',
                  2, 'Row-Share',
                  3, 'Row-Exclusive.',
                  4, 'Share',
                  5, 'S/Row-Exclusive',
                  6, 'Exclusive'
                 ) AS lock_type,
          o.owner, o.object_name, o.object_type, s.program, s.logon_time,
s.status session_status,
          o.status object_status
     FROM gv$locked_object l, dba_objects o, gv$session s, gv$process p
    WHERE (l.object_id = o.object_id AND l.session_id = s.SID)
      AND s.paddr = p.addr
      AND l.inst_id = p.inst_id
      AND s.inst_id = p.inst_id
ORDER BY object_name;
```

Information on what each lock type means can be found on Oracle Docs, Automatic Locks in DML Operations.

Query to find blocking sessions: Anytime one Oracle session blocks another, the blocked session has a non-null value in gv$sessionode.

```
SELECT inst_id,  blocking_session, sid, serial#
FROM gv$session s
WHERE blocking_session IS NOT NULL;
```

Query to find more blocking session information:

```
SELECT 'Oracle Session with username'|| blocker.username  || ' and session ID
'||blocker.sid||' is blocking ' || blocked.username ||' with session ID '||
```

```
blocked.sid block_description
    FROM gv$lock locker, gv$session blocker, gv$lock locked, gv$session
blocked
    WHERE blocker.sid=locker.sid AND blocked.sid=locked.sid
    AND locker.block=1
    AND locker.id1 = locked.id1
    AND locker.id2 = locked.id2
    AND locker.inst_id = blocker.inst_id
    AND locked.inst_id = blocked.inst_id
```

Enjoy.