**In this Document**

|  |  |
| --- | --- |
|  | [Symptoms](https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=510737593596494&id=313102.1&_adf.ctrl-state=nybggvznq_57 \\l SYMPTOM) |

|  |  |
| --- | --- |
|  | [Cause](https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=510737593596494&id=313102.1&_adf.ctrl-state=nybggvznq_57 \\l CAUSE) |

|  |  |
| --- | --- |
|  | [Solution](https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=510737593596494&id=313102.1&_adf.ctrl-state=nybggvznq_57 \\l FIX) |

|  |  |
| --- | --- |
|  | [References](https://support.oracle.com/epmos/faces/DocumentDisplay?_afrLoop=510737593596494&id=313102.1&_adf.ctrl-state=nybggvznq_57 \\l REF) |

**APPLIES TO:**

Oracle Database - Enterprise Edition - Version 9.2.0.3 and later

Information in this document applies to any platform.

\*\*\*Checked for relevance on 21-Jul-2017\*\*\*

**SYMPTOMS**

Jobs are no longer executing automatically.

If forced (exec dbms\_job.run(<enter here job number>);), these execute fine.

**CAUSE**

Check the most common reasons why jobs don't execute automatically and as scheduled:

**1) Instance in RESTRICTED SESSIONS mode?**

Check if the instance is in restricted sessions mode:

select instance\_name,logins from v$instance;

If logins=RESTRICTED, then:

alter system disable restricted session;

*^-- Checked!*

**2) JOB\_QUEUE\_PROCESSES=0**

Make sure that job\_queue\_processes is > 0

show parameter job\_queue\_processes

*^-- Checked!*

**3) \_SYSTEM\_TRIG\_ENABLED=FALSE**

Check if \_system\_enabled\_trigger=false

col parameter format a25

col value format a15

select a.ksppinm parameter,b.ksppstvl value from x$ksppi a,x$ksppcv b

where a.indx=b.indx and ksppinm='\_system\_trig\_enabled';

If \_system\_trig\_enabled=false, then

alter system set "\_system\_trig\_enabled"=TRUE scope=both;

^*-- Checked!*

**4) Is the job BROKEN?**

select job,broken from dba\_jobs where job=<job\_number>;

If broken, then check the alert log and trace files to diagnose the issue.

*^-- Checked! The job is not broken.*

**5) Is the job COMMITted?**

Make sure a commit is issued after submitting the job:

DECLARE X NUMBER;

BEGIN

SYS.DBMS\_JOB.SUBMIT

(

job => X

,what => 'dbms\_utility.analyze\_schema

(''SCOTT'',''COMPUTE'',NULL,NULL,NULL);'

,next\_date => to\_date('08/06/2005 09:35:00','dd/mm/yyyy hh24:mi:ss')

,no\_parse => FALSE

);

COMMIT;

END;

/

If the job executes fine if forced (i.e., exec dbms\_jobs.run(<job\_no>);), then likely a commit

is missing.

*^-- Checked! The job is committed after submission.*

**6) UPTIME > 497 days**

Check if the server (machine) has been up for more than 497 days:

For SUN, use 'uptime' OS command.

If uptime>497 and the jobs do not execute automatically, then you are hitting unpublished bug 3427424

(Jobs may stop running after 497 days uptime) which is fixed in 9206 and A102

*^-- Checked! The server in this case has been up 126 days only*

**7) DBA\_JOBS\_RUNNING**

Check dba\_jobs\_running to see if the job is still running:

select \* from dba\_jobs\_running;

*^-- Checked! The job is not running.*

**8) LAST\_DATE and NEXT\_DATE**

Check if the last\_date and next\_date for the job are proper:

select Job,Next\_date,Last\_date from dba\_jobs where job=<job\_number>;

*^-- NEXT\_DATE is proper, however LAST\_DATE is null since the job never executes automatically.*

**9) NEXT\_DATE and INTERVAL**

Check if the Next\_date is changing properly as per the interval set in dba\_jobs:

select Job,Interval,Next\_date,Last\_date from dba\_jobs where job=<job\_number>;

*^-- This is not possible since the job never gets executed automatically.*

**10) Toggle value for JOB\_QUEUE\_PROCESSES**

Stop and restart CJQ process(es)

alter system set job\_queue\_processes=0 ;

--<Wait for some time to ensure CJQ process stopped>

alter system set job\_queue\_processes=4 ;

Ref: [Bug 2649244](https://support.oracle.com/epmos/faces/BugDisplay?parent=DOCUMENT&sourceId=313102.1&id=2649244 \\t _blank) (fixed by: 9015, 9203, 10201)

*^-- Done but did not help*

**11) Check for unsuccessful shutdowns:**

A shutdown immediate may get canceled because active sessions prevent the database close operation.

Please review the alert log for the last two shutdown / startups and the messages:

SHUTDOWN: Active sessions prevent database close operation

Please refer to

[Note 434690.1](https://support.oracle.com/epmos/faces/DocumentDisplay?parent=DOCUMENT&sourceId=313102.1&id=434690.1) - Database Jobs Do Not Run After a Failed 'Shutdown Immediate'

**12) DBMS\_IJOB (non-documented package):**

Either restart the database or try the following:

exec dbms\_ijob.set\_enabled(true);

Ref: [Bug 3505718](https://support.oracle.com/epmos/faces/BugDisplay?parent=DOCUMENT&sourceId=313102.1&id=3505718 \\t _blank) (Closed, Not a Bug)

*^-- Done but did not help*

**13) Check view DBA\_SCHEDULER\_GLOBAL\_ATTRIBUTE for CURRENT\_OPEN\_WINDOW:**

SQL> select \* from DBA\_SCHEDULER\_GLOBAL\_ATTRIBUTE where attribute\_name='CURRENT\_OPEN\_WINDOW';

If a window is open close it (e.g.):

ATTRIBUTE\_NAME                       VALUE

---------------------------------       ----------------------------

CURRENT\_OPEN\_WINDOW       WEEKNIGHT\_WINDOW

SQL> exec DBMS\_SCHEDULER.close\_window ('WEEKNIGHT\_WINDOW');

^-- Done but did not help

These are the most common causes for this behavior.

**SOLUTION**

The solution ended up to be the server (machine) uptime.

*Even though it was up for only 126 days, after the server was rebooted all jobs were able to execute automatically.*

 To implement the solution, please execute the following steps:

1. Shutdown all applications, including databases.

2. Shutdown the server (machine)

3. Restart all applications, including databases.

4. Check that jobs are executing automatically.

It should be noted that DBMS\_JOB has been retained in later versions of Oracle mainly for backward compatibility. It is highly recommended to migrate from DBMS\_JOB to DBMS\_SCHEDULER which is more powerful and flexible. To convert jobs from DBMS\_JOB to DBMS\_SCHEDULER, the document IF: An Example to Convert from DBMS\_JOB Jobs to DBMS\_SCHEDULER Jobs (Doc ID [2117140.1](https://support.oracle.com/epmos/faces/DocumentDisplay?parent=DOCUMENT&sourceId=313102.1&id=2117140.1 \\t _blank)) may be used.

**REFERENCES**

[NOTE:434690.1](https://support.oracle.com/epmos/faces/DocumentDisplay?parent=DOCUMENT&sourceId=313102.1&id=434690.1) - Database Jobs Do Not Run After a Failed 'Shutdown Immediate'

[NOTE:727363.1](https://support.oracle.com/epmos/faces/DocumentDisplay?parent=DOCUMENT&sourceId=313102.1&id=727363.1) - DBMS\_SCHEDULER Jobs Get Enqueued When They Do Not Run at Start Time

[NOTE:309945.1](https://support.oracle.com/epmos/faces/DocumentDisplay?parent=DOCUMENT&sourceId=313102.1&id=309945.1) - Jobs do not execute automatically

[NOTE:1058725.1](https://support.oracle.com/epmos/faces/DocumentDisplay?parent=DOCUMENT&sourceId=313102.1&id=1058725.1) - CJQ0 process not started as part of database startup

BUG:3505718 - JOBS NOT RUNNING WHEN SCHEDULED

[NOTE:263386.1](https://support.oracle.com/epmos/faces/DocumentDisplay?parent=DOCUMENT&sourceId=313102.1&id=263386.1) - Scheduled Jobs Suddenly Stop Working