



# 1Z0-054<sup>Q&As</sup>

Oracle Database 11g: Performance Tuning

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### QUESTION 1

You work as a DBA and have the responsibility of managing a large online transaction processing (OLTP) system. You used the following query during the

performance tuning activity:

```
SQL> SELECT (1-((phy.value-phyd.value) / (cur.value + con.value))) * 100 2 "Cache Hit ratio"  
3 FROM v$sysstat cur, v$sysstat con, v$sysstat phy, v$sysstat phyd 4 WHERE cur.name = '\\db block gets\\'  
5 AND con.name = '\\consistent gets\\'  
6 AND phy.name = '\\physical reads\\'  
7 AND phyd.name = '\\physical reads direct\\';
```

Cache Hit Ratio

98.43

What can you conclude based on this ratio?

- A. The database performance is very good because of reduced logical I/Os.
- B. The database performance cannot be determined based only on this ratio.
- C. Good database performance is guaranteed because very few physical I/Os are performed.
- D. The database performance is very good because most of the requested data blocks are found in the buffer cache.

Correct Answer: B

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### QUESTION 2

View Exhibit1 and examine a portion of Active Session History(ASH) report.



## Top DB Objects

- With respect to Application, Cluster, User I/O and buffer busy waits only.

Object ID	% Activity	Event	% Event	Object Name (Type)	Tablespace
77025	92.52	buffer busy waits	92.52	SPC.S?CT (TABLE)	TBSSPC

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## Top DB Files

No data exists for this section of the report.

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## Top Latches

No data exists for this section of the report.

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## Activity Over Time

- Analysis period is divided into smaller time slots
- Top 3 events are reported in each of those slots
- 'Slot Count' shows the number of ASH samples in that slot
- 'Event Count' shows the number of ASH samples waiting for that event in that slot
- '% Event' is 'Event Count' over all ASH samples in the analysis period

Slot Time (Duration)	Slot Count	Event	Event Count	% Event
17:13:00 (1.0 min)	6	CPU + Wait for CPU	6	0.25
17:14:00 (1.0 min)	634	buffer busy waits	590	24.67
		CPU + Wait for CPU	32	1.34
		log file sync	7	0.29
17:15:00 (1.0 min)	1,752	buffer busy waits	1,623	67.85
		CPU + Wait for CPU	61	2.55
		cursor: pin S	46	1.92

View Exhibit2 to examine the tablespaces.

TABLESPACE_NAME	STATUS	CONTENTS	EXTENT_MAN	ALLOCATIO	SEGMENT
SYSTEM	ONLINE	PERMANENT	LOCAL	SYSTEM	MANUAL
SYSAUX	ONLINE	PERMANENT	LOCAL	SYSTEM	AUTO
UNDOTBS1	ONLINE	UNDO	LOCAL	SYSTEM	MANUAL
TEMP	ONLINE	TEMPORARY	LOCAL	UNIFORM	MANUAL
USERS	ONLINE	PERMANENT	LOCAL	SYSTEM	AUTO
EXAMPLE	ONLINE	PERMANENT	LOCAL	SYSTEM	AUTO
SOEINDEX	ONLINE	PERMANENT	LOCAL	UNIFORM	AUTO
SOE	ONLINE	PERMANENT	LOCAL	UNIFORM	AUTO
TBSSPC	ONLINE	PERMANENT	LOCAL	SYSTEM	MANUAL

Which action would you suggest after analyzing the output?



- A. Increase the log buffer size.
- B. Rebuild indexes on SPCT table.
- C. Decreasing the number of free lists in segment SPCT.
- D. Move SPCT table to a different tablespace that is locally managed with automatic segment space management.

Correct Answer: D

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### QUESTION 3

You work as a DBA for a company and you have the responsibility of managing one of its online transaction processing (OLTP) systems. The database

encountered performance-related problems and you generated an Automatic Workload Repository (AWR) report to investigate it further.

View the Exhibits and examine the AWR report.

Which is the appropriate solution to the problem in this database?



### Top 5 Timed Foreground Events

Event	Waits	Time(s)	Avg wait (ms)	% DB time	Wait Class
DB CPU		584		29.08	
library cache: mutex X	14,721	71	5	3.53	Concurrency
latch: shared pool	1,158	55	48	2.76	Concurrency
cursor: pin S wait on X	3,777	50	13	2.50	Concurrency
log file sync	672	17	25	0.83	Commit

### Time Model Statistics

- Total time in database user-calls (DB Time): 2008.5s
- Statistics including the word "background" measure background process time, and so do not contribute to the DB time statistic
- Ordered by % of DB time desc, Statistic name

Statistic Name	Time (s)	% of DB Time
sql execute elapsed time	1,731.94	86.23
DB CPU	584.11	29.08
parse time elapsed	533.72	26.57
hard parse elapsed time	416.43	20.73
connection management call elapsed time	33.26	1.66
PL/SQL compilation elapsed time	10.58	0.53
Java execution elapsed time	8.01	0.40
failed parse elapsed time	5.20	0.26
PL/SQL execution elapsed time	3.66	0.18
hard parse (sharing criteria) elapsed time	1.94	0.10
hard parse (bind mismatch) elapsed time	1.33	0.07
sequence load elapsed time	0.41	0.02
repeated bind elapsed time	0.05	0.00
DB time	2,008.48	
background elapsed time	2.06	
background cpu time	4.79	

### Load Profile

	Per Second	Per Transaction	Per Exec	Per Call
DB Time(s):	3.8	12.6	0.01	0.00
DB CPU(s):	1.1	3.7	0.00	0.00
Redo size:	6,062.3	20,190.1		
Logical reads:	5,982.5	19,924.3		
Block changes:	25.5	84.9		
Physical reads:	2,778.2	9,252.7		
Physical writes:	2.9	9.7		
User calls:	1,263.4	4,207.7		
Parses:	508.8	1,687.3		
Hard parses:	53.3	177.5		
W/A MB processed:	726,646.9	2,420,040.5		
Logons:	1.1	3.5		
Executes:	513.1	1,708.9		
Rollbacks:	0.1	0.3		
Transactions:	0.3			





## Dictionary Cache Stats

- "Pot Misses" should be very low (< 2% in most cases)
- "Final Usage" is the number of cache entries being used

Cache	Get Requests	Pct Miss	Scan Reqs	Pct Miss	Mod Reqs	Final Usage
do_awr_control	13	69.23	0		2	1
do_database_links	1,074	0.58	0		0	0
do_global_objs	15,419	2.87	0		0	13
do_histogram_data	77,565	21.21	0		0	571
do_histogram_defn	163,045	23.16	0		0	1,014
do_object_grants	44,042	4.17	0		0	59
do_objects	358,769	3.30	0		0	398
do_profiles	548	2.19	0		0	1
do_rollback_segments	230	0.00	0		0	38
do_segments	99,605	15.72	0		5	279
do_sequences	25	100.00	0		25	0
do_tablespaces	85,888	0.04	0		0	5
do_users	179,387	0.35	0		0	20
global database name	927	0.11	0		0	1
kqlsubheap_object	197	30.46	0		0	0
outstanding_alerts	19	54.74	0		0	1

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## Library Cache Activity

- "Pot Misses" should be very low

Namespace	Get Requests	Pct Miss	Pin Requests	Pct Miss	Reloads	Invali- dations
BODY	1,832	1.38	3,673	1.55	23	0
CLUSTER	2,761	1.51	1,590	3.14	0	0
INDEX	947	35.59	947	35.90	1	0
JAVA DATA	4	75.00	873	0.69	0	0
SQL AREA	340,330	23.79	602,683	12.78	22,142	5,231
TABLE PROCEDURE	145,459	2.49	191,059	3.55	6,812	0
TRIGGER	5,539	0.23	5,539	0.29	0	0

- A. increasing the size of the shared pool
- B. adding one more CPU to the system
- C. setting the CURSOR\_SHARING parameter to EXACT
- D. configuring Java pool because it is not configured

Correct Answer: A



#### QUESTION 4

Your database has the ACCTG service configured for an accounting application running on a middle tier. These service is used by the middle-tier applications to connect to the database by using connection pools. The application has three modules LEDGER, ACCOUNTS, and BILLING. You asked the developers to invoke the DBMS\_APPLICATION\_INFO.SET\_MODULE procedure to set the module name and action in the code for the application. You enabled tracing at the service level by executing the following command:

```
SQL> exec DBMS_MONITOR.SERV_MOD_ACT_TRACE_ENABLE('\ACCTG\');
```

You want to consolidate the trace output from the trace files created based on module. Which is the appropriate solution for this?

- A. Using trace files as input for the tkprof utility to consolidate the tracing of sessions for a module
- B. Using the trace file as input for the trcsess utility to consolidate and process the output for a module
- C. Using the trcsess utility to consolidate all trace files into a single output file, which can then be processed by the tkprof utility
- D. Using the trace file as input for the trcsess utility and creating output files that can directly be used by the users for performance or debugging purposes

Correct Answer: C

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#### QUESTION 5

During a proactive database performance monitoring routine, on examining the AWR report you find that log file sync appears among the top 5 wait events.What does this event indicate?

- A. Frequent logfile switches are occurring.
- B. Redo is generated faster than LGWR can write it out.
- C. Frequent commits or rollbacks are taking place in the application.
- D. Frequent incremental checkpoints are taking place in the database.

Correct Answer: C

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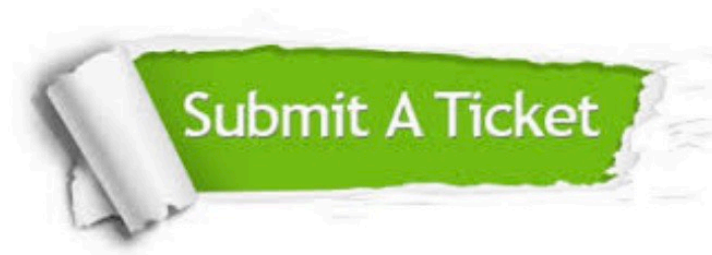
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