



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

Oracle Database 11g: Performance Tuning

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## QUESTION 1

You are working on a development database that was upgraded to Oracle Database 11g from Oracle Database 9i. An ADDM finding in this database says that the shared pool is inadequately sized, as shown in the Exhibit.



You diagnosed that this is due to different kinds of workloads and this occurs only during peak hours. You tried to resize this by shrinking the database buffer cache but that caused inadequate buffer cache problems. The following are the related parameter settings: SQL> show parameter sga NAME TYPE VALUE -----  
----- lock\_sga boolean FALSE pre\_page\_sga boolean FALSE sga\_max\_size big integer 300M sga\_target big integer 0 SQL> show parameter target NAME TYPE VALUE -----  
fast\_start\_mtrr\_target integer 0 memory\_max\_target big integer 0 memory\_target big integer 0 pga\_aggregate\_target big integer 100M sga\_target big integer 0 You want to balance the memory between the System Global Area (SGA) components within SGA without affecting the size of the Program Global Area (PGA). Which action would solve this problem?

- A. Set the SGA\_TARGET parameter to 300M.
- B. Set the SGA\_MAX\_SIZE parameter to 400M.
- C. Set the MEMORY\_TARGET parameter to 100M.
- D. Set the MEMORY\_MAX\_TARGET parameter to 300M.

Correct Answer: A

## QUESTION 2

Which two symptoms related to the database buffer cache together indicate that there are many full table scans happening? (Choose two.)

- A. too many buffer busy waits
- B. very low buffer cache-hit ratio
- C. very high buffer cache-hit ratio
- D. many waits on the db file scattered read event

Correct Answer: BD



### QUESTION 3

Examine the initialization parameter values for the instance given below: NAME TYPE VALUE

```
----- optimizer_capture_sql_plan_baselines boolean FALSE
optimizer_dynamic_sampling integer 2 optimizer_features_enable string 11.1.0.6 optimizer_index_caching integer 0
optimizer_index_cost_adj integer 100 optimizer_mode string ALL_ROWS db_file_multiblock_read_count integer 64
```

You notice that the one of the queries is using a full table scan (view Exhibit1) instead of index unique scan (view Exhibit2). The index is present on the column that is accessed in the WHERE clause of the query. The cost for a full table scan is more than that for an index unique scan.

```
select * from employees where employee_id=107;
```

Execution Plan

```
-----
Plan hash value: 1601196873
```

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		1	71	3 (0)	00:00:01
* 1	TABLE ACCESS FULL	T	1	71	3 (0)	00:00:01

Predicate Information (identified by operation id):

```
-----
1 - filter("EMPLOYEE_ID"=107)
```

```
-----
Plan hash value: 1076294677
```

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		1	71	1 (0)	00:00:01
1	TABLE ACCESS BY INDEX ROWID	T	1	71	1 (0)	00:00:01
* 2	INDEX UNIQUE SCAN	EMP_PK	1		1 (0)	00:00:01

Predicate Information (identified by operation id):

```
-----
2 - access("EMPLOYEE_ID"=107)
```

Why would the optimizer choose full table scan over index unique scan? (Choose all that apply.)

- A. The OPTIMIZER\_INDEX\_COST\_ADJ initialization parameter is set to a low value.
- B. The OPTIMIZER\_INDEX\_COST\_ADJ initialization parameter is set to a high value.
- C. The DB\_FILE\_MULTIBLOCK\_READ\_COUNT initialization parameter is set to a low value.



D. The statistics for the table and all the indexes associated with the table are not current.

Correct Answer: BD

#### QUESTION 4

You are hired by ABC Pvt Ltd., and assigned the task of managing one of its development databases. The company has recently upgraded this database to Oracle Database 11g from Oracle Database 10g. You noticed that SGA is undersized as shown in Exhibit 1.

##### ADDM Performance Analysis

Period Start Time **Jul 28, 2008 4:00:52 PM GMT+07:00**    Period Duration (minutes) **60.08**    Instance **orcl.us.oracle.com**

Impact (%)	Finding	Occurrences (last 24 hrs)
100	Undersized SGA	6 of 25
42.2	CPU Usage	7 of 25
6.7	PL/SQL Compilation	5 of 25
5.3	Top SQL by DB Time	9 of 25
2.8	Hard Parse Due to Sharing Criteria	4 of 25

##### Policy Violations

All **12**    Critical Rules Violated **9**    Critical Security Patches **0**    Compliance Score (%) **92**

To investigate further, you checked the related parameters as shown in Exhibit 2.

```
SQL> show parameter sga
```

NAME	TYPE	VALUE
lock_sga	boolean	FALSE
pre_page_sga	boolean	FALSE
sga_max_size	big integer	500M
sga_target	big integer	384M

```
SQL> show parameter target
```

NAME	TYPE	VALUE
archive_lag_target	integer	0
db_flashback_retention_target	integer	1440
fast_start_io_target	integer	0
fast_start_mttr_target	integer	0
memory_max_target	big integer	0
memory_target	big integer	0
pga_aggregate_target	big integer	384M
sga_target	big integer	384M

You executed the following command to solve the problem: ALTER SYSTEM SET MEMORY\_TARGET=800M;

What would happen?



- A. The implementation of AMM fails because the MEMORY\_MAX\_TARGET parameter is not set.
- B. It implements AMM by setting MEMORY\_TARGET and MEMORY\_MAX\_TARGET parameters to 800M.
- C. It implements Automatic Memory Management (AMM) by setting MEMORY\_TARGET to 768M and the MEMORY\_MAX\_TARGET parameter to 800M.
- D. The implementation of AMM fails because the MEMORY\_TARGET parameter cannot be set to a value less than the sum of the current PGA\_AGGREGATE\_TARGET and SGA\_MAX\_SIZE values.

Correct Answer: A

---

### QUESTION 5

The users in your online transaction processing (OLTP) environment complain that the response time of the application has increased dramatically. To investigate the problem, view the Exhibit and examine the queries you executed. What do you infer?



```
SQL> SELECT name profile, cnt, decode(total, 0, 0, round(cnt*100/total))
2 percentage
3 FROM (SELECT name, value cnt, (sum(value) over ()) total FROM V$SYSSTAT
5 WHERE name like 'workarea exec%');
```

PROFILE	CNT	PERCENTAGE
workarea executions - optimal	42095	95
workarea executions - onepass	15	0
workarea executions - multipass	1986	5

```
SQL> SELECT * FROM V$PGASTAT;
```

NAME	VALUE	UNIT
aggregate PGA target parameter	20971520	bytes
aggregate PGA auto target	4194304	bytes
global memory bound	154624	bytes
total PGA inuse	108472320	bytes
total PGA allocated	207599616	bytes
maximum PGA allocated	239077376	bytes
total freeable PGA memory	19988480	bytes
process count	55	
max processes count	62	
PGA memory freed back to OS	523763712	bytes
total PGA used for auto workareas	5240832	bytes
maximum PGA used for auto workareas	7198720	bytes
total PGA used for manual workareas	0	bytes
maximum PGA used for manual workareas	537600	bytes
over allocation count	1988	
bytes processed	8550086656	bytes
extra bytes read/written	2.4251E+10	bytes
cache hit percentage	26.06	percent
recompute count (total)	1988	

19 rows selected.

- A. Cursor sharing is not enabled.
- B. The large pool is not configured.
- C. The temporary tablespace is full.
- D. The value set for the SHARED\_POOL\_SIZE initialization parameter is too small.
- E. The value set for the PGA\_AGGREGATE\_TARGET initialization parameter is too small.

Correct Answer: E



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