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# 1Z0-054

Oracle Database 11g: Performance Tuning

DEMO

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Note: The answer is for reference only, you need to understand all question.

### QUESTION 1

After running SQL Performance Analyzer (SPA), you observe a few regressed SQL statements in the SPA output.

Identify the two actions that you would suggest for these regressed SQL statements. (Choose two.)

- A. Running SQL Access Advisor
- B. Adding them to SQL Plan Baseline
- C. Submitting them to SQL Tuning Advisor
- D. Running Automatic Database Diagnostic Monitor (ADDM)

Answer: BC

### QUESTION 2

View the Exhibit exhibit1 to examine the series of SQL commands and parameter settings.

View the Exhibit exhibit2 to examine the plans available in the SQL plan baseline.

The first plan (in red) is created when OPTIMIZER\_MODE is set to ALL\_ROWS and the second plan (in blue) is created when OPTIMIZER\_MODE is set to FIRST\_ROWS.

Which SQL plan baseline would be used if the SQL query in exhibit1 is executed again when the value of OPTIMIZER\_MODE is set to FIRST\_ROWS?

#### Exhibit 1 (exhibit):

```
SQL> SHOW PARAMETER OPTIMIZER
```

NAME	TYPE	VALUE
optimizer_capture_sql_plan_baselines	boolean	TRUE
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
optimizer_secure_view_merging	boolean	TRUE
optimizer_use_invisible_indexes	boolean	FALSE
optimizer_use_pending_statistics	boolean	FALSE
optimizer_use_sql_plan_baselines	boolean	TRUE

```
SQL> SELECT * FROM sh.sales WHERE quantity_sold > 40 ORDER BY prod_id;
SQL> SELECT * FROM sh.sales WHERE quantity_sold > 40 ORDER BY prod_id;
SQL> ALTER SESSION SET OPTIMIZER_MODE=FIRST_ROWS;
SQL> SELECT * FROM sh.sales WHERE quantity_sold > 40 ORDER BY prod_id;
```

**Exhibit 2 (exhibit):**

Select Name	SQL Text	Enabled	Accepted	Fixed	Auto Purge	Created	Last Modified
<input type="checkbox"/> SYS_SQL_PLAN_89447021c7314e9e	select * from hr.employees where job_id='CLERK'	YES	YES	NO	YES	Jul 20, 2008 7:02:30 PM	Jul 20, 2008 7:16:48 PM
<input type="checkbox"/> SYS_SQL_PLAN_894470210572d2c8	select * from hr.employees where job_id='CLERK'	YES	NO	NO	YES	Jul 20, 2008 7:20:45 PM	Jul 20, 2008 7:20:45 PM
<input type="checkbox"/> SYS_SQL_PLAN_7ed8568135b3dca	SELECT NAME NAME COL PLUS SHOW PARAM,DECODE (TYPE,1...	YES	YES	NO	YES	Jul 21, 2008 2:40:44 PM	Jul 21, 2008 2:40:44 PM
<input type="checkbox"/> SYS_SQL_PLAN_4698b35dd463620	select * from table(dbms_xplan.display (null,null,...	YES	YES	NO	YES	Jul 20, 2008 7:04:22 PM	Jul 20, 2008 7:04:22 PM
<input type="checkbox"/> SYS_SQL_PLAN_467a776254bc8843	select * from sh.sales where quantity_sold > 40 or...	YES	YES	NO	YES	Jul 21, 2008 2:25:42 PM	Jul 21, 2008 2:25:42 PM
<input type="checkbox"/> SYS_SQL_PLAN_467a776211df68d0	select * from sh.sales where quantity_sold > 40 or...	YES	NO	YES	YES	Jul 21, 2008 2:41:22 PM	Jul 21, 2008 2:41:56 PM

- A. the second plan, because it is a fixed plan
- B. the first plan, because it is an accepted plan
- C. the second plan, because it is the latest generated plan in FIRST\_ROW mode
- D. A new plan, because the second plan in FIRST\_ROW mode is not an accepted plan

**Answer: B**

**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.

What could be the problem in this database?

**Exhibit 1 (exhibit):**

## 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

### Exhibit 2 (exhibit):

## 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	32.06	
background cpu time	4.79	

### Exhibit 3 (exhibit):