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QUESTION NO: 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: B, C

QUESTION NO: 2

View the Exhibit exhibit 1 to examine the series of SQL commands and parameter settings.

SQL> SHOW PARAMETER OPTIMIZER		
NAME	TYPE	VALUE
optimizer_capture_sql_plan_baselines optimizer_dynamic_sampling optimizer_features_enable optimizer_index_caching optimizer_index_cost_adj optimizer_mode optimizer_secure_view_merging optimizer_use_invisible_indexes optimizer_use_pending_statistics optimizer_use_sql_plan_baselines	boolean Integer string integer integer string boolean boolean boolean boolean	TRUE 2 11.1.0.6 0 100 ALL_ROWS TRUE FALSE FALSE TRUE
SQL> SELECT * FROM sh.sales WHERE qu SQL> SELECT * FROM sh.sales WHERE qu SQL> ALTER SESSION SET OPTIMIZER_MOD SQL> SELECT * FROM sh.sales WHERE qu	antity_sold E=FIRST_ROWS	> 40 ORDER BY prod_id; ;

View the Exhibit exhibit 2 to examine the plans available in the SQL plan baseline.

Select	Name 🗸	SQL Text	Enabled	Accepted	Fixed	Auto Purge	Created	Last Modified
	SYS SQL PLAN 89447021cf314e9e	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
	SYS SQL PLAN 891170210572d2c8	select * from hr. employees where jub_id='CLERK'	YES	NO	NO	YES	1ul 20, 2008 7:20:45 PM	Jul 20, 2008 7:20:45 PM
	SYS SQL PLAN 7ed8568135b3cdca	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
	<u>SYS SQL PLAN 4698b35ddf463620</u>	<u>select * from table(dbms_xplan.display</u> (null,null,'	YES	YES	NO	YES	Jul 20, 2008 7:04:22 PM	Jul 20, 2008 7:04:22 PM
	SYS SQL PLAN 467a776254bc8843	<u>select * from sh.sales where</u> <u>quantity_sold > 40 or</u>	YES	YES	NO	YES	Jul 21, 2008 2:25:42 PM	Jul 21, 2008 2:25:42 PM
	<u>SYS SQL PLAN 467a776211df68d0</u>	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

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?

- 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 NO: 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.

Top 5 Timed Foreground Events

Event	Walts	Time(s)	Avg walt (ms)	% DB time	Walt 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 % or DB time dese, 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	1.86
PL/SQL compilation eapsed 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	

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:	506.6	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

- "Pct 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
dc_awr_control	13	69.23	0	-	2	1
dc_database_links	1.074	0.56	0	1	0	0
dc_global_oids	15,419	2.87	0		0	13
dc_histogram_data	77,585	21.21	0		0	571
dc_histogram_defs	168,045	23.16	0		0	1,014
dc_object_grants	44,042	4.17	0	°	0	59
dc_objects	358,789	3.30	0		0	396
dc_profiles	548	2.19	0		0	1
dc_rollback_segments	230	0.00	0		0	38
dc_segments	99,805	15.72	0		5	279
dc_sequences	25	100.00	0		25	0
dc_tablespaces	85,868	0.04	0		0	5
dc_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	94.74	0		0	. 1

Back to Top

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	1.81	1,590	3.14	0	0
INDEX	947	35.59	947	35.80	1	0
JAVA DATA	4	75.00	873	0.69	0	0
SQLAREA	340,330	23.79	602,683	12,78	22,142	5,231
TABLE/PROCEDURE	145,469	2,49	191,059	8.55	5,812	0
TRIGGER	5,539	0.23	5,539	0.29	0	0

What could be the problem in this database?

- A. Java pool is not configured.
- B. The CPU in the system is slow.
- C. The shared pool size is inadequate.
- D. The database buffer cache is inadequate.
- E. The OPEN_CURSORS parameter is set to a small value.

Answer: C

QUESTION NO: 4

You are working on an online transaction processing (OLTP) system. You detected free buffer waits events for your database instance running in a machine that has multiple CPUs. You increased the database buffer cache size as the first step. After a few hours of work on the database, further investigation shows that the same event is being recorded. What would be your next step to avoid this event in future?

- A. Decrease the value of the DBWR_IO_SLAVES parameter.
- B. Set the USE_INDIRECT_DATA_BUFFERS parameter to TRUE.
- C. Increase the value of the DB_WRITER_PROCESSES parameter.
- D. Increase the value of the DB_FILE_MULTIBLOCK_READ_COUNT parameter.

Answer: C

QUESTION NO: 5

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.

ORACLE Enterprise Ma Database Control	anager 11 g	Setup Preferences Help Data
	oracle.com > Advisor Central > ostic Monitor (ADDM):SYS.ADDM:1159023676_1_1390 >	Logge
Performance Finding	Details: Undersized Shared Pool	
Finding	Hard parses due to an inadequately sized shared pool were consuming sign	ificant database time. (Finding History)
Impact (Active Sessions)	.69	
Impact (%)	42.5	
Period Start Time	Jul 29, 2008 7:23:34 PM GMT+07:00	
Period Duration (minutes)	24.4	
Filtered	No (Filters)	

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_mttr_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.

Answer: A

QUESTION NO: 6

You observed that some of the queries are performing poorly on the SALES_RECORDS table in your database.

On further investigation, you find that at the end of each day the contents of the SALES_RECORDS table are transferred to the SALES table and deleted from the SALES_RECORDS table. The deleted operations cause the table to be sparsely populated. You decided to use the ALTER TABLE...SHRINK SPACE COMPACT command to shrink the table. Why would you choose this method? (Choose all that apply.)

A. because it can be used during peak hours

B. because it avoids unnecessary cursor invalidation

C. because it adjusts the high-water mark (HWM) immediately

D. because you have long-running queries that might span the shrink operation

E. because it does not allow any data manipulation language (DML) operations, thereby making the shrink operation faster

Answer: A, B, D

QUESTION NO: 7

View the Exhibit and examine a portion of the output obtained from the following query:

STAT_ID	STAT_NAME	VALUE
3649082374	DB time	61021783
2748282437	DB CPU	3890625
4157170894	background elapsed time	42472524
2451517896	background cpu time	2796875
4127043053	sequence load elapsed time	0
1431595225	parse time elapsed	10983653
372226525	hard parse elapsed time	10480831
2821698184	sql execute elapsed time	50353110
1990024365	connection management call elapsed time	855906

SQL> SELECT * FROM v\$sys_time_model; Select three correct interpretations of the time model statistics. (Choose three.)

A. DB time includes the wait time of all the nonidle and idle user sessions.

B. SQL execute elapsed time includes the time spent in performing fetches of query results.

C. DB CPU includes the CPU time spent on database user-level calls and background CPU time.

D. SQL execute elapsed time includes components of the hard parse elapsed time like bind elapsed time.

E. DB time includes the connection management call elapsed time excluding the background process time.

Answer: B, D, E

QUESTION NO: 8

A batch workload that historically completed in the maintenance window between 10:00 PM and midnight is currently showing poor performance and completing at 2 AM. To help in the diagnosis of the performance degradation, the senior DBA in your organization asks you to execute the awrddrpt.sql script to produce a Compare Periods report. Which two statements are true about the report produced by this script? (Choose two.)

A. It is refreshed automatically based on the moving window baseline.

B. It compares details between any two selected time periods of the same duration.

C. It normalizes the statistics by the amount of time spent on the database for each time period.

D. It compares details between two consecutive time periods of the same or different durations and is refreshed every 60 minutes.

Answer: B, C

QUESTION NO: 9

You plan to use adaptive thresholds as part of the performance tuning activity. You decide to

increase the window size of the default moving window baseline for all metric observations and comparisons in your database. The following error occurs when you try to increase the window size through Enterprise Manager:

Failed to commit: ORA-13541: system moving window baseline size (1296000) greater than retention (1036800) ORA-06512: at "SYS.DBMS_WORKLOAD_REPOSITORY", line 601 ORA-06512: at line 2 Which action would allow you to perform the preceding task successfully?

A. increasing the flashback retention period

B. increasing the retention period for SQL Management Base

C. increasing the undo retention period for the database instance

D. increasing the Automatic Workload Repository (AWR) retention period

Answer: D

QUESTION NO: 10

Identify two correct statements about the Active Session History (ASH) data. (Choose two.)

A. A part of SGA memory is used to store ASH data as rolling buffer.

B. The ASH data can be analyzed between any two small time intervals.

C. All ASH data in memory are flushed to disk by MMON in every 3 seconds.

D. All ASH data in memory are flushed to disk by MMNL process whenever the buffer is full.

Answer: A, B

QUESTION NO: 11

A user in a session executed the following SQL statement to set the optimizer mode: ALTER SESSION SET OPTIMIZER_MODE = ALL_ROWS What impact would it have on the goal of the optimizer for that session? (Choose all that apply.)

A. Statement level OPTIMIZER_MODE hints take precedence over the session-level setting.

B. The OPTIMIZER_MODE parameter set at instance level takes precedence over the session-level value.

C. The optimizer uses a cost-based approach, regardless of the presence of statistics; it optimizes with a goal of best response time.

D. The optimizer uses a cost-based approach for all SQL statements in the session, regardless of the presence of statistics; it optimizes with a goal of best throughput.

Answer: A, D

QUESTION NO: 12

You are working on an online transaction processing (OLTP) system. By day most of the

application users perform queries accessing the most recently added or modified rows. The applications have most of the queries based on multiple tables. But at night, some batch processing is also done. Which two actions would you recommend to choose a goal for the optimizer based on the needs of your application? (Choose two.)

A. setting the OPTIMIZER_MODE parameter to ALL_ROWS at the instance level

B. setting the OPTIMIZER_MODE parameter to FIRST_ROWS_n at the instance level

C. asking the developer to add a hint /*ALL_ROWS*/ in the long-running batch processing queries

D. asking the developer to add a hint /*FIRST_ROWS_n*/ in the long-running batch processing queries

Answer: B, C

QUESTION NO: 13

Which three factors influence the optimizer's behavior while choosing an optimization approach and goal for a SQL statement? (Choose three.)

A. parsing of a SQL statement

- B. operating system (OS) statistics
- C. object statistics in the data dictionary
- D. the OPTIMIZER_MODE initialization parameter

E. optimizer SQL hints for changing the query optimizer goal

Answer: C, D, E

QUESTION NO: 14

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

The index created on the column used in the WHERE clause of the query. You notice that the query is not using the index. Instead of an index scan, a full table scan is used.

View the Exhibit and examine the autotrace output for a query.

1 - filter("EMPLOYEE_ID"=107)

What could be the reason for it? (Choose all that apply.)

A. The OPTIMIZER_INDEX_COST_ADJ initialization parameter has a low value.

B. The DB_FILE_MULTIBLOCK_READ_COUNT initialization parameter has a low value.

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

D. The table has less than DB_FILE_MULTIBLOCK_READ_COUNT blocks under the high-water mark.

Answer: C, D

QUESTION NO: 15

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.

Plan hash value: 1601196873									
Id Operation 1	Name	Rows	I	Bytes	1	Cost	(%CPU)	Time	1
0 SELECT STATEMENT * 1 TABLE ACCESS FULL :									
1 - filter("EMPLOYEE_ID"=:	107)								
Plan hash value: 1076294677									
I Id Operation		Name		Rows		Bytes	Cost	(%CPU)	Time
Plan hash value: 1076294677 Id Operation 0 SELECT STATEMENT 1 TABLE ACCESS BY INDEX * 2 INDEX UNIQUE SCAN							1 1	(0)1	00:00:0

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.

Answer: B, D

QUESTION NO: 16

The columns CUST_CITY, CUST_STATE_PROVINCE, and COUNTRY_ID are frequently used together in the WHERE clause of the queries. The CUSTOMERS table is a big table with 20 GB of data. You notice that the selectivity for these three columns varies from the selectivity that the optimizer calculates. What would you recommend to influence the selectivity calculated by the optimizer?

A. creating function-based indexes by concatenating all the columns

B. updating histogram statistics for these columns by using the DBMS_STATS.GATHER_TABLE_STATS procedure

C. using the DBMS_STATS.CREATE_EXTENDED_STATS function to create a virtual column and create index on the virtual column

D. using the DBMS_STATS.CREATE_EXTENDED_STATS function to create a virtual column and the DBMS_STATS.GATHER_TABLE_STATS procedure to collect statistics on the virtual column

Answer: D

QUESTION NO: 17

View Exhibit1 to examine the description of the CUSTOMERS table.

Name	Null? Type	
CUST ID	NOT NULL NUMBE	R
CUST FIRST NAME	NOT NULL VARCH	AR2 (20)
CUST LAST NAME	NOT NULL VARCH	AR2 (40)
CUST GENDER	NOT NULL CHAR (1)
CUST YEAR OF BIRTH	NOT NULL NUMBE	R(4)
CUST MARITAL STATUS	VARCH	AR2 (20)
CUST_STREET ADDRESS	NOT NULL VARCH	AR2 (40)
CUST_POSTAL_CODE	NOT NULL VARCH	AR2 (10)
CUST_CITY	NOT NULL VARCH	AR2 (30)
CUST_CITY_ID	NOT NULL NUMBE	R
CUST STATE PROVINCE	NOT NULL VARCH	AR2 (40)
CUST STATE PROVINCE ID	NOT NULL NUMBE	R
COUNTRY ID	NOT NULL NUMBE	R
CUST_MAIN_PHONE_NUMBER	NOT NULL VARCH	AR2 (25)
CUST_INCOME_LEVEL	VARCH	AR2 (30)
CUST_CREDIT_LIMIT	NUMBE	R
CUST_EMAIL	VARCH	AR2 (30)
CUST_TOTAL	NOT NULL VARCH	AR2 (14)
CUST_TOTAL_ID	NOT NULL NUMBE	R
CUST_SRC_ID	NUMBE	R
CUST_LFF_FROM	DATE	
CUST_EFF_TO	DATE	
CUST_VALID	VARCH	AR2 (1)

You observed that optimizer selectivity is not accurate when the CUST_STATE_PROVINCE and COUNTRY_ID columns are used together in the WHERE clause of a query. View Exhibit2 to examine the query execution plan and the commands executed to gather the statistics.

SQL>		LECT COUNT(*)	FROM cu	stomers WHI	ER	E coun	tr	y_id=527	90 and	i cust_s	tate_prov:	ince='CA';
		341										
SQL>	ex	ec dbms_stats.	gather_	table_stat:	s (null,'	CU	STOMERS '	, metho	od_opt=>	for all (columns size 1');
PL/S	QL	procedure succe	essfull	y complete	d.							
SQL>	ex	plain plan for	select	count(*)	fr	om cus	to	mers whe	re CO	JNTRY_ID	=52790 and	d CUST_STATE_PROVINCE='CA';
Expl	ain	ed.										
SQL> 2		lect * from tal	ole(dbm	s_xplan.di	sp	lay())						
PLAN	_TA	BLE_OUTPUT										
Plan	ha	sh value: 29692					00					
Id	1	Operation	I	Name	1						Time	1
1	0 1	SELECT STATEM	ENT		1							1
 *	1	SORT AGGREGAT TABLE ACCES	TE S FULL	CUSTOMERS	1	1 20	I	16 320	40	6 (1)	00:00:05	1
PLAN	_TA	te Information BLE_OUTPUT 							 =527	90)		
14 r	ows	selected.										

The optimizer predicts that 20 rows will be processed rather than the 3,341 rows, which is the actual number of rows returned from the table. What can you do to make the optimizer detect the actual number of rows?

A. Set the STATISTICS_LEVEL parameter to ALL.

B. Set the OPTIMIZER_USE_PENDING_STATISTICS parameter to FALSE.

C. Create extended statistics for the CUST_STATE_PROVINCE and COUNTRY_ID columns.

D. Increase the STALE_PERCENT value for the CUSTOMERS table by using the DBMS_STATS.SET_TABLE_PREFS procedure.

Answer: C

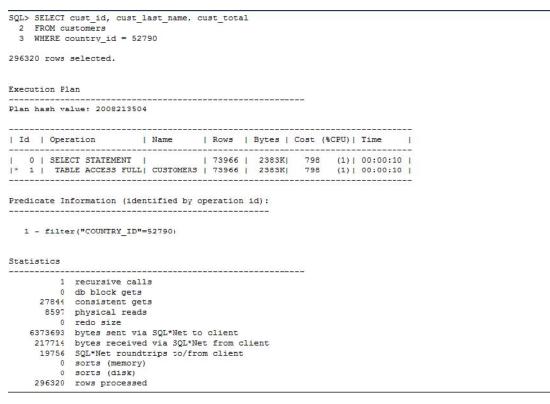
QUESTION NO: 18

View Exhibit1 to examine the description of the CUSTOMERS table.

SQL> DESC customers	
Name	Null? Type
CUST_ID	NOT NULL NUMBER
CUST FIRST NAME	NOT NULL VARCHAR2 (20)
CUST LAST NAME	NOT NULL VARCHAR2 (40)
CUST GENDER	NOT NULL CHAR (1)
CUST YEAR OF BIRTH	NOT NULL NUMBER (4)
CUST MARITAL STATUS	VARCHAR2 (20)
CUST STREET ADDRESS	NOT NULL VARCHAR2 (40)
CUST POSTAL CODE	NOT NULL VARCHAR2 (10)
CUST CITY	NOT NULL VARCHAR2 (30)
CUST CITY ID	NOT NULL NUMBER
CUST STATE PROVINCE	NOT NULL VARCHAR2 (40)
CUST STATE PROVINCE ID	NOT NULL NUMBER
COUNTRY ID	NOT NULL NUMBER
CUST MAIN PHONE NUMBER	NOT NULL VARCHAR2 (25)
CUST INCOME LEVEL	VARCHAR2 (30)
CUST CREDIT LIMIT	NUMBER
CUST EMAIL	VARCHAR2 (30)
CUST_TOTAL	NOT NULL VARCHAR2 (14)
CUST TOTAL ID	NOT NULL NUMBER
CUST_SRC_ID	NUMBER
CUST_LFF_FROM	DATE
CUST_EFF_TO	DATE
CUST VALID	VARCHAR2(1)

The CUSTOMERS table has been updated heavily today. In a frequently used SQL statement, you notice that estimated rows and the actual number of rows fetched differ greatly. The COUNTRY_ID column has an index.

View Exhibit2 and examine the query execution plan.



What would you recommend to improve the optimizer's estimation?

A. setting the STATISTICS_LEVEL parameter to ALL

B. setting the OPTIMIZER_USE_PENDING_STATISTICS parameter to FALSE

C. creating extended statistics for the CUST_LAST_NAME, CUST_ID, and CUST_TOTAL columns

D. updating the statistics for the CUSTOMERS table by using the DBMS_STATS.GATHER_TABLE_STATS procedure

Answer: D

QUESTION NO: 19

You are working on a decision support system (DSS). The index is available on the COUNTRY_ID column of the CUSTOMERS table. View the Exhibit and examine the parameter settings and the query execution plan.

NAME		TYPE					
	iblock_read_count						
	BLOCKS, EMPTY_BLOCKS ABLE_NAME = 'CUST';	FROM ALL_TA	BLES				
BLOCKS E	MPTY_BLOCKS						
	0						
SQL> EXEC DE	MS_STATS.GATHER_TABLE	_STATS('SH'	,'CUST);			
PL/SQL proce	dure successfully com	pleted.					
SQL> select	cust_id, cust_last_na	me from sh.	cust wi	nere cou	intry_	id=52790;	
74080 rows s	elected.						
Execution Pl	an						
Dian hagh w	lue: 260468903				1		
Fian nash va	102. 200400505						
	ation Name						1
	CT STATEMENT						1
* 1 TAE	LE ACCESS FULL CUST	74150	1303K	793	(1)	00:00:10	1
Predicate In	formation (identified	l by operati	on id):	8			
				1			
1 - filte	r("COUNTRY ID"=52790)						
1 11100	I(COUNTRI_ID 52/50/						
Statistics							
	recursive calls						
	db block gets						
	consistent gets						
2848	physical reads						
	redo size						
1584703	bytes sent via SQL*N	let to clien	t				
	bytes received via S						
	SQL*Net roundtrips t						

4940 SQL*Net roundtrips to/from client

Why is the query using a full table scan instead of an index scan?

A. because the histogram statistics for the COUNTRY_ID column are not updated

B. because the index statistics for the index on the COUNTRY_ID column are not current

C. because the DB_FILE_MULTIBLOCK_READ_COUNT initialization parameter is set to a higher value

D. because the optimizer predicts that most of the blocks in the table are accessed. Therefore, it uses a full table scan, even though indexes are available.

Answer: D

QUESTION NO: 20

View Exhibit1 and examine the indexes on the CUSTOMERS table.

```
SQL> SELECT i.table_name, column_name, o.object_name, o.object_id, i.index_type
FROM user_objects o,
    user_ind_columns c
    where o.object_type= 'INDEX'
    AND i.table_name LIKE '%CUST%'
    AND i.index_name = o.object_name
    AND i.index_name = c.index_name
TABLE_NAME COLUMN_NAME OBJECT_NAME OBJECT_ID INDEX_TYPE
CUSTOMERS CUST_GENDER CUSTOMERS_GENDER_BIX 70685 BITMAP
CUSTOMERS CUST_MARITAL_STATUS CUSTOMERS_MARITAL_BIX 70686 BITMAP
CUSTOMERS CUST_ID CUSTOMERS_PK 70473 NORMAL
CUSTOMERS CUST_YEAR_OF_BIRTH CUSTOMERS_YOB_BIX 70687 BITMAP
CUSTOMERS CUST_YEAR_OF_BIRTH CUSTOMERS_YOB_BIX 70687 BITMAP
```

The statistics for the CUSTOMERS table have been updated recently by using the following command:

SQL>

EXEC

DBMS_STATS.GATHER_TABLE_STATS('SH','CUSTOMERS',method_opt=>'FOR ALL INDEXED COLUMNS SIZE AUTO');

View Exhibit2 to examine a query plan. Even though the index is present on the COUNTRY_ID and CUST_GENDER columns, the query uses a full table scan. What could be the reason?

TABLE_NAME	COLUMN_NAME	OBJECT_NAME	OBJECT_ID	INDEX_TYPE
CUSTOMERS	CUST_GENDER	CUSTOMERS_GENDER_BIX	70685	BITMAP
CUSTOMERS	CUST_MARITAL_STATUS	CUSTOMERS_MARITAL_BIX	70686	BITMAP
CUSTOMERS	CUST_ID	CUSTOMERS_PK	70473	NORMAL
CUSTOMERS	CUST_YEAR_OF_BIRTH	CUSTOMERS_YOB_BIX	70687	BITMAP
CUSTOMERS	COUNTRY_ID	CUST_COUNTRY	79047	NORMAL

A. because the histogram statistics for the COUNTRY_ID column are not updated

B. because the DB_FILE_MULTIBLOCK_READ_COUNT initialization parameter is set to a high value

C. because the optimizer calculates the cost of accessing blocks by using a full table scan to be less as compared to index scans, even though indexes are available

D. because indexes on CUST_GENDER and COUNTRY_ID columns are of different types, the index on the CUST_GENDER column is bitmap index, and on COUNTRY_ID columns is btree index.

Answer: C

QUESTION NO: 21

You are working on an online transaction processing (OLTP) system. The CUST table in the SH schema was populated by direct load and after that it has gone through a lot of updates and deletions. The statistics for the CUST and SALES tables were updated recently. View the Exhibit and examine the query plan. The query is performing a lot of I/O for a query that fetches only 168 rows. To investigate further, you queried the ALL_TABLES view to find out PCTUSED, PCTFREE, and the number of rows in the CUST table, as given below:

SQL> SELECT table_name ,blocks, pct_used, pct_free, num_rows

2 FROM all_tables

3* WHERE table_name = 'CUST';

TABLE_NAME BLOCKS PCT_USED PCT_FREE NUM_ROWS

----- ------

CUST 13768 80 111060

What would you recommend to reduce the I/O?

SQL> SELECT time_id, quantity_sold, amount_sold FROM sales s, cust c WHERE c.cust_id = s.cust_id AND cust_first_name = 'Jimmy' ORDER BY time_id

1	d	I	Operation	1	Name	I	Rows	1	Bytes	TempSpc	Cost	(%CPU)	Time	1	Pstart	Pstop	1
1	0	1	SELECT STATEMENT	1		1	11120	1	358K	1	4344	(1)	00:00:53	1	1		1
1	1	1	SORT ORDER BY	1		1	11120	1	358K	1064K	4344	(1)	00:00:53	1	1		1
1*	2	1	HASH JOIN	L		I	11120	1	358K	1	4243	(1)	00:00:51	1	1		1
1*	3	1	TABLE ACCESS FULL	1	CUST	1	85	1	1020	1	3738	(1)	00:00:45	1	1		1
1	4	1	PARTITION RANGE ALL	1		1	9181	KI	18M	1	498	(4)	00:00:06	1	1	28	1
1	5	1	TABLE ACCESS FULL	1	SALES	1	9181	K	18M	1	498	(4)	00:00:06	1	1	28	1

Predicate Information (identified by operation id):

```
2 - access("C"."CUST_ID"="S"."CUST_ID")
```

```
3 - filter("CUST_FIRST_NAME"='Jimmy')
```

Statistics

```
14863 recursive calls
0 db block gets
18448 consistent gets
13688 physical reads
0 redo size
4716 bytes sent via SQL*Net to client
541 bytes received via SQL*Net from client
13 SQL*Net roundtrips to/from client
137 sorts (memory)
0 sorts (disk)
168 rows processed
```

A. reorganizing the table to use fewer blocks

B. rebuilding the index on the CUST_FIRST_NAME column

C. increasing the value for the PCTFREE attribute for the CUST table

D. increasing the value for the PGA_AGGREGATE_TARGET initialization parameter

Answer: A

QUESTION NO: 22

Your system has been upgraded from Oracle Database 10g to Oracle Database 11g. You imported SQL Tuning Sets (STS) from the previous version that contains important SQL statements. You are not sure about the elapsed time that the SQL statements will have in the new system due to the version change of the optimizer. Which tool provides a comparative report with respect to the elapsed time in both versions of the optimizer?

- A. SQL Access Advisor
- B. SQL Tuning Advisor (STA)
- C. SQL Performance Analyzer (SPA)
- D. Automatic Workload Repository (AWR) compare period report

Answer: C

QUESTION NO: 23

Which three statements are true about performance analysis by SQL Performance Analyzer? (Choose three.)

- A. It detects changes in SQL execution plans.
- B. It shows only the overall impact on workload.
- C. It produces results that can be used to create the SQL plan baseline.
- D. It generates recommendations to run SQL Tuning Advisor to tune regressed SQL statements.
- E. The importance of SQL statements to be analyzed is based on the size of the objects accessed.

Answer: A, C, D

QUESTION NO: 24

The database application developers are planning to make some major schema changes such as creating new indexes and materialized views. They want to check the net impact of these changes on the workload performance. This activity has to be performed in the production database, so they want only the query part of the data manipulation language (DML) statements to be executed so that the side effects to the database or user data can be prevented. What should they use to achieve this?

A. Database ReplayB. SQL Tuning AdvisorC. SQL Access AdvisorD. SQL Performance Analyzer

Answer: D

QUESTION NO: 25

You upgraded database from the Oracle Database 10g to Oracle Database 11g. To test the performance SQL on the upgraded database. You want to build the before-change performance data by using SQL Performance Analyzer .Which method would allow the task to execute quickly?

A. the EXPLAIN PLAN methodB. the TEST EXECUTE methodC. the COMPARE PERFORMANCE methodD. the OPTIMIZER_USE_SQL_PLAN_BASELINE parameter set to TRUE

Answer: A

QUESTION NO: 26

Examine the following block that executes a SQL Performance Analyzer task:

begin dbms_sqlpa.execute_analysis_task(task_name => 'SPA_SKD4', execution_type => 'TEST EXECUTE', execution_name => 'before'); end;

Which two statements are true about the execution? (Choose two.)

A. It generates execution plans and execution statistics.

- B. It executes only the query part of the DML statements.
- C. The test plans are generated and added to plan baseline.

D. The test plans are executed, but not generated if they are available in the plan baseline.

Answer: A, B

QUESTION NO: 27

You plan to collect statistics for an important table in your database to help improved query performance. You are uncertain about the optimizer behavior after the statistics have been collected because currently there are no statistics for indexes or partitions on the table. You wish to test the performance effect of the newly collected statistics. How would you prevent the optimizer from using the newly collected statistics for other sessions immediately after statistics collection?

- A. Set the PUBLISH preference to FALSE for the table.
- B. Set the NO_VALIDATE preference to TRUE for the table.
- C. Set the OPTIMIZER_DYNAMIC_SAMPLING parameter to 0.

D. Set the OPTIMIZER_USE_SQL_PLAN_BASELINES parameter to FALSE for the session.E. Set the OPTIMIZER_USE_PENDING_STATISTICS parameter to FALSE for the session.

Answer: A

QUESTION NO: 28

You have the automatic optimizer statistics gathering enabled for a 24x7 database as part of the automatic maintenance task. You observed that a few tables are being updated regularly, but not being queried often. However statistics are being gathered for these tables automatically and regularly, thereby affecting the database performance.

What would you do to increase the interval of statistics collection for these tables so that the statistics collection jobs spend less time during the automatic maintenance task?

A. Set the OPTIMIZER_USE_PENDING parameter statistics to TRUE.

B. Increase the value of the STALE_PERCENT preference for these tables.

C. Mark those associated indexes that are less frequently used as invisible.

D. Increase the value of the ESTIMATE_PERCENT preference for these tables

Answer: B

QUESTION NO: 29

You have the automatic optimizer statistics gathering enabled for a 24x7 database as part of the automatic maintenance task. Because the automatic optimizer statistics collection runs during maintenance window(in the night), the statistics on tables that are significantly modified throughout the day becomes stale. This leads to poor query performance on these tables and you want to minimize the

overhead in statistics collection. Identify a solution to this problem.

A. Change the STALE_PERCENT preference to zero for the tables.

B. Set the OPTIMIZER_USE_PENDING parameter statistics to TRUE.

C. Set the OPTIMIZER_DYNAMIC_SAMPLING parameter to zero during day time.

D. Gather statistics on the table when the tables have a representative number of rows, and then lock the statistics.

Answer: D

QUESTION NO: 30

You observe that suboptimal execution plans for the queries are being generated on a table that previously used less resources. You have collected statistics on these tables two days ago. The optimizer statistics retention period is set to 31 days. You are able to find the timestamp information about statistics update from the DBA_TAB_STATS_HISTORY view. Because it is a

frequently queried table, you would like the optimizer to generate better plans. Which action would enable you to use the previous set of statistics on the objects that may lead to better execution plans?

A. restoring statistics from statistics history up to the desired time

B. deleting all AWR snapshots collected after the time of desired statistics collection

C. applying the flashback table technique until the time of desired statistics collection

D. setting the OPTIMIZER_PENDING_STATISTICS parameter to TRUE to use the previous version of statistics

Answer: A

QUESTION NO: 31

The SALES table in your database undergoes frequent changes. While observing the statistics for the table in the middle of the day, you find a change since the last observation. But the information about the statistics collection is not recorded in the DBA_TAB_STATS_HISTORY. Identify the reason for this.

A. The AWR retention time was set to zero.

B. The STATISTICS_LEVEL parameter was set to BASIC.

C. Some of the statistics were collected using the ANALYZE command.

D. There were user-defined statistics that were set by using the DBMS_STATS.SET_TABLE_STATS procedure.

Answer: C

QUESTION NO: 32

You have a range-partitioned table in your database. Each partition in the table contains the sales data for a quarter. The partition related to the current quarter is modified frequently, whereas other partitions undergo fewer data manipulations. The preferences for the table are set to their default values. You collect statistics for the table using the following command at regular intervals: SQL> EXECUTE

DBMS_STATS.GATHER_TABLE_STATS('SH', 'SALES', GRANULARITY=>'AUTO'); You need statistics to be collected more quickly. How do you achieve this?

A. Set the PUBLISH preference to TRUE for the partition table.

B. Set the NO_VALIDATE preference to TRUE for the partition table.

C. Set the INCREMENTAL preference to TRUE for the partition table.

D. Increase the value of the STALE_PERCENT preference for the partition table.

Answer: C

QUESTION NO: 33

Which is the correct description of SQL profiling while using SQL Tuning Advisor?

A. It is a set of recommendations by the optimizer to create new indexes.

B. It is auxiliary information collected by the optimizer for a SQL statement to eliminate estimation error.

C. It is a set of recommendations by the optimizer to refresh stale statistics to avoid bad execution plan.

D. It is a set of recommendations by the optimizer to restructure a SQL statement to avoid bad execution plan.

Answer: B

QUESTION NO: 34

You used SQL Tuning Advisor for a long-running SQL statement that suggested a SQL profile which can be used by the query subsequently for a better execution plan. After implementing the profile, you altered the profile to include it in a category as follows:

SQL> EXEC DBMS_SQLTUNE.ALTER_SQL_PROFILE (name=>

'SYS_SQLPROF_0146ced728214000, attribute_name => 'CATEGORY', value => 'DEV2').

But the performance has not improved for the user session. The profile is enabled and on investigating the query plan, you find that the query from the user session does not use the SQL profile. View the Exhibit and examine the parameters for the user session. What could be the reason for this?

NAME	TYPE	VALUE
optimizer_capture_sql_plan_baselines	boolean	FALSE
optimizer_use_sql_plan_baselines	boolean	TRUE
sql_trace	boolean	FALSE
sal_version	string	NATIVE
sqltune_category	string	DEFAULT
optimizer_mode	string	ALL_ROWS
control_management_pack_access	string	DIAGNOSTIC+TUNING
resource_manager_cpu_allocation	integer	2
resource_manager_plan	string	SCHEDULER[0x2C0F]:DEFAULT_MAIN

A. The CONTROL_MANAGEMENT_PACK_ACCESS parameter is not set to DEV2.

B. The OPTIMIZER_MODE parameter is set to ALL_ROWS for the user session.

C. The SQLTUNE_CATEGORY parameter is set to DEFAULT for the user session.

D. The OPTIMIZER_USE_PLAN_BASELINES parameter is set to TRUE for the user session.

Answer: C

QUESTION NO: 35

You used SQL Tuning Advisor for a long-running SQL statement that suggested a SQL profile which can be used by the query subsequently for better execution plan. View the Exhibit. But you

want certain user sessions not to use this SQL profile for their queries. How would you implement this?

(Enal	ble)(Disable)(Drop)(Change Cat All Select None	egory)Pack)				Unpac
	Participant in the second s	SQL Text	Category	Status	Created	Last Modified
	SYS_SQLPROF_0146ced728214000	SELECT /*+ ORDERED USE NL(C) FULL(C) FULL(S) */ CO	DEFAULT		Jul 19, 2008 7:47:50 PM	Jul 20, 2008 1:07:39 PM

A. Alter the SQL profile to change the category of the SQL profile.

B. Set the OPTIMIZER_USE_PENDING_STATISTICS to TRUE the desired sessions.

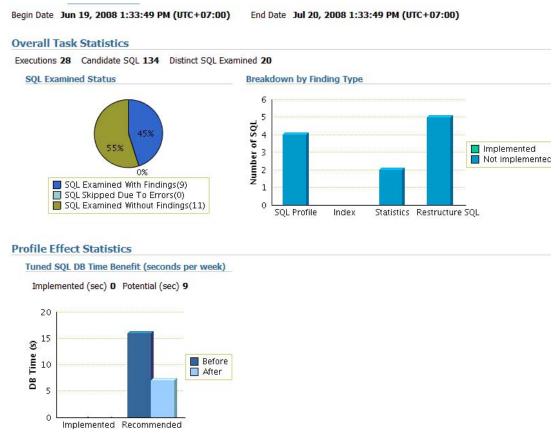
C. Use database resource manager to prevent the use of the SQL profile by these user sessions.

D. Use database resource manager to preUse the resource management feature in profiles of these users to prevent the use of the SQL profile.

Answer: A

QUESTION NO: 36

View the Exhibit and examine the result of Automatic SQL Tuning for a period. None of the recommended SQL profiles are implemented. What would you do to allow the Automatic SQL Tuning implement the SQL profiles automatically?



A. Set the OPTIMIZER_MODE parameter to ALL_ROWS for the database instance.

B. Set the SQLTUNE_CATEGORY parameter to DEFAULT for the database instance.

C. Set the OPTIMIZER_CAPTURE_SQL_PLAN_BASELINES parameter to TRUE for the database instance.

D. Use the DBMS_SQLTUNE.SET_TUNING_TASK_PARAMETERS procedure to set ACCEPT_SQL_PROFILES to TRUE.

Answer: D

QUESTION NO: 37

You receive a recommendation for a SQL statement through the automatic SQL tuning process that suggests implementing a SQL profile. You implement the SQL profile. The tables associated with the SQL statement grow, and indexes are created and dropped on these tables. What would happen to the SQL profile that is created for the SQL statement?

A. It becomes outdated immediately after the tables change.

B. It is maintained automatically along with the changes in the tables.

C. The profile will be used for the changed plans of the SQL statement.

D. The plan for the SQL statement is frozen until it is regenerated by the SQL Tuning Advisor.

Answer: C

QUESTION NO: 38

Identify the type of recommendation that can automatically be implemented by the Automatic Tuning Advisor as part of automatic SQL tuning task?

- A. recommendation for SQL profiles
- B. recommendation about effective indexing
- C. recommendation about stale or no statistics
- D. recommendation about the structure of SQL statements

Answer: A

QUESTION NO: 39

A user session executes a query and the plan for the query is shown in the Exhibit as Plan-1. After verifying with the SQL Access advisor, an index is created on the table in the JOB_ID column and the query is executed again. A new plan is generated against the second query shown in the Exhibit as Plan-2. When explaining the plan for the second query, you observe that the optimizer uses the first plan instead of the second. The following parameters are set for the user session: OPTIMIZER_CAPTURE_SQL_PLAN_BASELINES=TRUE OPTIMIZER_USE_SQL_PLAN_BASELINES=TRUE SQLTUNE_CATEGORY=DEFAULT

Why does the optimizer not use the second plan?

Plan-1

Plan hash value: 1445457117

1	Id	1	Operat:	ion	1	Name	1	Rows	1	Bytes	I	Cost	(%CPU)	Time	1
	0	1	SELECT	STATEMEN	NT I		1	6	1	372	1	3	(0) [00:00:01	1
*	1	1	TABLE	ACCESS I	FULL	EMPLOYEES	1	6	1	372	1	3	(0)]	00:00:01	

Predicate Information (identified by operation id):

1 - filter("JOB_ID"='CLERK')

Plan-2

Plan hash value: 1139333089

1	d	I	Operati	on				Name	I.	Rows	1	Bytes	1	Cost	(%CPU)	Time
1	0	1	SELECT	STATEM	ENT		1		1	6	1	372	1	2	2 (0) 1	00:00:01
Ê.	1	1	TABLE	ACCESS	BY	INDEX	ROWID	EMPLOYEES	1	6	1	372	1	2	(0)	00:00:01
*	2	1	INDEX	RANGE	SCI	AN	1	JBIND	1	6	1		1	3	(0) [00:00:01

Predicate Information (identified by operation id):

2 - access("JOB_ID"='CLERK')

A. because the second plan is not verified

B. because the second plan is not part of the SQL plan baseline

C. because the SQLTUNE_CATEGORY parameter is set to DEFAULT

D. because the explain plan option in the user session does not allow the new plan because SQLTUNE_CATEGORY parameter is set to DEFAULT

Answer: A

QUESTION NO: 40

View the Exhibit and examine the plans in the SQL plan baseline. You observe that the last two SELECT statements (outlined in red and blue) are identical, but have two different plans. Also, the second plan (in blue) is not being used by the optimizer. Which two steps do you perform to ensure that the optimizer uses the second plan (in blue) if the plan is more efficient? (Choose two.)

elect	Name 🗸	SQL Text	Enabled	Accepted	Fixed	Auto Purge	Created	Last Modified
	SYS SOL PLAN ba5e158c52d2775d	DELETE FROM PLAN TABLE WHERE STATEMENT ID=:1	YES	YES	NO	YES	Jul 20, 2008 5:12:07 PM	Jul 20, 2008 5:12:07 PM
	SYS SOL PLAN 331fa51fdf463620	SELECT PLAN TABLE OUTPUT FROM TABLE(DBMS XPLAN.DIS	YES	YES	NO	YES	Jul 20, 2008 5:12:06 PM	Jul 20, 2008 5:12:06 PM
	SYS SOL PLAN 184921b7cf314e9e	select * from employees where job_id='CLERK'	YES	YES	NO	YES	Jul 20, 2008 5:15:31 PM	Jul 20, 2008 5:15:31 PM
	SYS SOL PLAN 184921b70572d2e8	select * from employees where tob_id='CLERK'	YES	NO	NO	YES	Jul 20, 2008 5:17:33 PM	Jul 20, 2008 5:17:33 PM

Ø TIP The table will display maximum of 2000 rows. Use search criteria to get the desired results.

A. Mark the second plan (in blue) as fixed.

B. Use SQL Tuning Advisor to tune the plan.

C. Use SQL Access Advisor to tune the plan.

D. Use the DBMS_SPM.EVOLVE_SQL_PLAN_BASELINE function to evolve the plan.

Answer: B, D

QUESTION NO: 41

Identify the two direct sources from where SQL plans can be loaded into the SQL plan baselines. (Choose two.)

A. Cursor cache

- B. Stored outline
- C. SQL Tuning Set
- D. Automatic Workload Repository (AWR) snapshots

Answer: A, C

QUESTION NO: 42

Your system is upgraded from Oracle Database 10g to Oracle Database 11g. You imported SQL Tuning Sets (STS) from the previous version. After running the SQL Performance Analyzer for optimizer version change, you observe performance regression for a few SQL statements. What would you suggest to avoid performance regression for these SQL statements?

- A. Include the old plans in the SQL plan baseline.
- B. Use DBMS_SPM.EVOLVE_SQL_PLAN_BASELINE to evolve plans.
- C. Set the OPTIMIZER_USE_PENDING_STATISTICS parameter to TRUE.

D. Increase the value for the OPTIMIZER_DYNAMIC_SAMPLING parameter.

Answer: A

QUESTION NO: 43

The OPTIMIZER_CAPTURE_SQL_PLAN_BASELINES parameter is set to TRUE for a 24x7 database instance. The space consumption has significantly increased by the automatically

captured plan baselines. You are suggested to run the following block: BEGIN dbms_spm.configure('SPACE_BUDGET_PERCENT', 30); END;

After a few weeks of work, you observe warnings on exceeding space usage by SQL Management Base (SMB) in alert log file. Which two actions can be solutions for this? (Choose two.)

A. increasing the AWR retention period

B. purging the older SQL management objects

C. increasing the size of the SYSTEM tablespace

D. increasing the size of the SYSAUX tablespace

Answer: B, D

QUESTION NO: 44

Your company wants to migrate a single instance Oracle 11g Release 1 database to a RAC environment. The database supports middle-tier applications using connection pooling for connecting to database.

Being a part of the performance management team, you want to test the performance of the SQL statements and the peak workload of the applications in the new environment before upgrading the production system.

Given below are some of the steps in random order to accomplish the task:

1) Capture the real workload on the existing system.

2) Create a SQL Tuning Set (STS) for the statements executed by the application.

3) Transport STS on the test environment and use SQL Tuning Advisor to compare the before and after performance.

4) Replay the workload on the test environment.

5) Analyze the divergence after replay.

6) Use Automatic Workload Repository (AWR) to capture the information for top SQL on the existing system.

7) Transport STS on the test environment and use SQL Performance Analyzer to compare the before and after performance.

Identify the correct steps required to perform the test.

A. 2 and 3 only

B. 6 and 7 only

C. 1, 4, and 5 only

D. 2, 3, and 5 only

E. 2, 3, 4, and 5 only

Answer: C

QUESTION NO: 45

You are working on an online transaction processing (OLTP) system. The middle-tier applications use connection pooling to connect to the database. Presently, you have a single-node database. The company plans to migrate the database to a RAC environment. Before you move to a RAC environment, you want to test the performance of the SQL statements and the peak workload on the new environment. To accomplish the Database Capture for replay, you identified the peak workload period on the existing system and started the Database Capture. Which client requests to the database can be captured as part of the workload capture? (Choose all that apply.)

A. flashback query

- B. distributed transactions
- C. logging in and logging out of sessions
- D. all DDL statements having bind variables
- E. direct path load of data from external files

Answer: C. D

QUESTION NO: 46

You are a DBA in ABC Corp. You are working on a DSS system.. The applications directly connect to the database to perform transactions. The application users also perform direct loads. The company wants to upgrade from Oracle Database 10g version 10.2.0.1 to Oracle Database 11g. You want to test the performance of the SQL statements in the new environment before upgrading the production database. To accomplish this, you set up the test database with Oracle Database 11g, with the same data and schemas as in production.

What would you recommend to accomplish the task?

A. gathering all the SQL statements and using SQL Tuning Advisor on the test database for performance analysis

B. capturing the workload on the production database, replaying it on the test machine, and comparing the performance

C. creating a SQL Tuning Set by capturing the SQL workload on the production database and using SQL Performance Analyzer for performance analysis

D. configuring AWR to capture the maximum number of SQL statements, transporting it to the test system, and using SQL Access Advisor for performance analysis

Answer: C

QUESTION NO: 47

You are a DBA in ABC Corp. You are working on an online transaction processing (OLTP) system. The applications running on the database use connection pooling to connect to the database to perform transactions.

The company wants to upgrade the CPU and the memory for the machine on which the database is

running. To test the realistic workload on the new machine with increased CPU and memory, you identified the peak workload time for the database and captured the workload on the production system.

You set up the test machine with the upgraded CPU and memory and installed the database with the same version as production.

Which three actions would you perform to accomplish the realistic replay of the peak workload on the test machine? (Choose three.)

A. Preprocess the captured workload for the specified target database version.

B. Set up as many replay clients as there are actual clients to the production system.

C. Set up all the replay clients on the same machine on which the test database is running.

D. Resolve all external references such as database links, external tables, and directory objects.

E. Restore the replay database to match the capture database at the start of the workload capture.

Answer: A, D, E

QUESTION NO: 48

You are a DBA in ABC Corp. You are working on an online transaction processing (OLTP) system. The applications running on the database use connection pooling to connect to the database to perform transactions.

The company wants to upgrade the CPU and the memory for the machine on which the production database is running. To test the realistic workload on the new machine with increased CPU and memory, you identified the peak workload time for the database and captured the workload on the production system. You set up the test machine with the upgraded CPU and memory, and performed the following operations for replay:

1) You preprocessed the captured workload.

2) You restored the replay database to match the capture database at the start of the workload capture.

3) You resolved all external references.

4) You set up replay clients.

You have the following replay considerations:

1) load testing to be performed

2) all the sessions to connect immediately

3) user waits between issuing calls to be kept to a minimum

What replay options would you choose to accomplish the replay?

A. SYNCHRONIZATION = FALSE, THINK_TIME_SCALE = 0, CONNECT_TIME_SCALE = 0 and THINK_TIME_AUTO_CORRECT = FALSE

B. SYNCHRONIZATION = TRUE, THINK_TIME_SCALE = 100, CONNECT_TIME_SCALE = 0 and THINK_TIME_AUTO_CORRECT = FALSE

C. SYNCHRONIZATION = FALSE, THINK_TIME_SCALE = 100, CONNECT_TIME_SCALE = 100 and

THINK_TIME_AUTO_CORRECT = TRUE