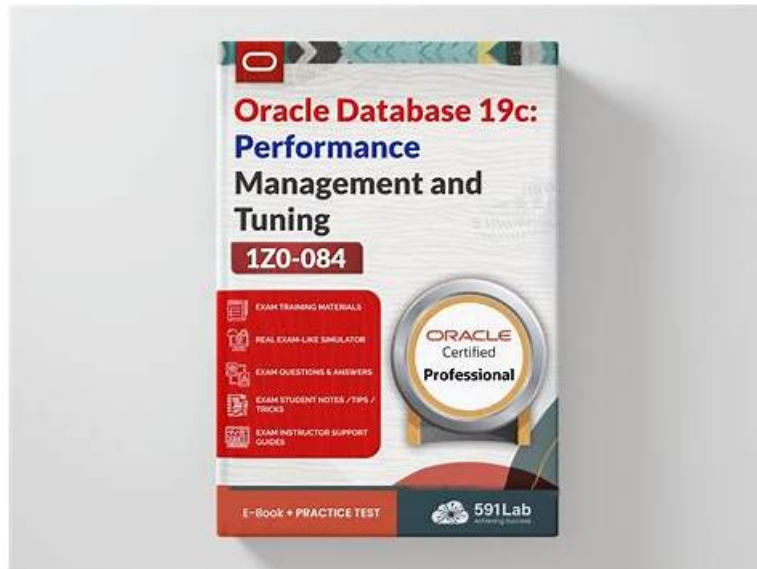


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Oracle Database 19c Performance and Tuning Management Sample Questions (Q16-Q21):

NEW QUESTION # 16

Examine this statement and its corresponding execution plan:

```
SELECT *  
FROM sales  
WHERE promo_id=33  
OR prod_id=136;
```

Id	Operation	Name	Rows
0	SELECT STATEMENT		
1	CONCATENATION		
2	TABLE ACCESS BY GLOBAL INDEX ROWID BATCHED	SALES	710
3	INDEX RANGE SCAN	SALES_PROD_PROMO_IND	710
4	PARTITION RANGE ALL		229K
5	TABLE ACCESS FULL	SALES	229K

Which phase introduces the CONCATENATION step?

- A. SQL Semantic Check
- B. SQL Execution
- C. SQL Row Source Generation
- **D. SQL Transformation**
- E. SQL Adaptive Execution

Answer: D

Explanation:

The CONCATENATION step in an execution plan is introduced during the SQL Transformation phase. This phase is part of the optimizer's query transformations which can include various techniques to rewrite the query for more efficient execution. The CONCATENATION operation is used to combine the results of two separate SQL operations, typically when there is an OR condition in the WHERE clause, as seen in the provided query.

References:

- * Oracle Database SQL Tuning Guide, 19c
- * Oracle Database Concepts, 19c

NEW QUESTION # 17

Examine this statement and output:

```
SQL> select sid,  
           state,  
           wait_time/100 as "WAIT TIME IN SECONDS",  
           event  
   from v$session  
  where username='OE';
```

SID	STATE	WAIT TIME IN SECONDS	EVENT
9857	WAITED KNOWN TIME	1354	rdbms ipc message
9822	WAITING	0	enq: TX - row lock contention
8779	WAITING	0	sql*Net message from client

Which three statements are true?

- **A. Session 8779 may be waiting for a user or application response.**
- B. Both 9822 and 8779 sessions are waiting for operating system resources.
- **C. Session 9822 will always stop waiting if the session that owns the TX enqueue issues a COMMIT statement as session 9822 is the first session in the transaction queue.**
- **D. Session 8779 may be waiting due to a network problem.**
- E. Session 9857 is not waiting.
- F. Session 9857 waited 1354 seconds for another process, which was also waiting for a transaction to end.

Answer: A,C,D

Explanation:

For this SQL statement and output, we can analyze theEVENTcolumn to understand the type of wait:

B: The event "SQL*Net message from client" typically indicates that the session is waiting for a response from the client. This can be due to a network issue, user response, or an application processing delay.

E: The event "SQL*Net message from client" also implies that the session is idle waiting for the client (a user or an application) to send a request to the server. This event usually indicates that the session is not actively working but is instead waiting for the next command.

F: The wait event "enq: TX - row lock contention" suggests that session 9822 is waiting for a row-level lock held by another session. If the holding session issues a COMMIT or ROLLBACK, the lock will be released, and session 9822 will stop waiting. Since this session is experiencing row lock contention, it implies it's waiting for a specific transaction to complete.

References:

* Oracle Database Reference, 19c

* Oracle Wait Events Documentation

NEW QUESTION # 18

You must write a statement that returns the ten most recent sales. Examine this statement:

```
SELECT s.prod_id, p.prod_name, s.time_id, c.cust_name, c.cust_city
FROM sales s, customers c, products p
WHERE s.cust_id = c.cust_id AND
      s.prod_id = p.prod_id
ORDER BY s.time_id
FETCH FIRST 10 ROWS ONLY;
```

Users complain that the query executes too slowly. Examine the statement's current execution plan:

Id	Operation	Name	Starts	E-Rows	A-Rows	A-Time	Buffers	Reads	OMem	lMem	Used-Mem
0	SELECT STATEMENT		1		10	00:00:00.32	3130	3			
* 1	COUNT STOPKEY		1		10	00:00:00.32	3130	3			
2	VIEW		1	918K	10	00:00:00.32	3130	3			
* 3	SORT ORDER BY STOPKEY		1	918K	10	00:00:00.32	3130	3	2048	2048	2048 (0)
* 4	HASH JOIN		1	918K	918K	00:00:00.22	3130	3	1250K	1250K	1579K (0)
5	TABLE ACCESS FULL	PRODUCTS	1	72	72	00:00:00.01	3	3			
* 6	HASH JOIN		1	918K	918K	00:00:00.16	3126	0	4696K	1834K	4597K (0)
7	TABLE ACCESS FULL	CUSTOMERS	1	95500	95500	00:00:00.01	1521	0			
8	PARTITION RANGE ALL		1	918K	918K	00:00:00.10	1604	0			
9	TABLE ACCESS FULL	SALES	1	918K	918K	00:00:00.10	1604	0			

Predicate Information (identified by operation id):

```
1 - filter(ROWNUM<11)
3 - filter(ROWNUM<11)
4 - access("S"."PROD_ID"="P"."PROD_ID")
6 - access("S"."CUST_ID"="C"."CUST_ID")
```

What must you do to reduce the execution time and why?

- A. Enable Adaptive Plans so that Oracle can change the Join method as well as the Join order for this query.
- B. Create an index on SALES.CUST_ID to force an INDEX RANGE SCAN on this index followed by a NESTED LOOP join between CUSTOMERS and SALES.
- C. Collect a new set of statistics on PRODUCT, CUSTOMERS, and SALES because the current stats are inaccurate.
- **D. Create an index on SALES.TIME_ID to force the return of rows in the order specified by the ORDER BY clause.**
- E. Replace the FETCH FIRST clause with ROWNUM to enable the use of an index on SALES.

Answer: D

Explanation:

The execution plan shows a full table access for theSALEstable. To reduce the execution time, creating an index onSALES.TIME_IDwould be beneficial as it would allow the database to quickly sort and retrieve the most recent sales without the need to perform a full table scan, which is I/O intensive and slower. By indexing TIME_ID, which is used in theORDER BYclause, the optimizer can take advantage of the index to efficiently sort and limit the result set to the ten most recent sales.

* B (Incorrect):ReplacingFETCH FIRSTwithROWNUMwould not necessarily improve the performance unless there is an appropriate index that the optimizer can use to avoid sorting the entire result set.

* C (Incorrect):There is no indication that the current statistics are inaccurate; hence, collecting new statistics may not lead to performance improvement.

* D (Incorrect): While adaptive plans can provide performance benefits by allowing the optimizer to adapt the execution strategy, the main issue here is the lack of an index on the ORDER BY column.

* E (Incorrect): Creating an index on SALES.CUST_ID could improve join performance but would not address the performance issue caused by the lack of an index on the ORDER BY column.

References:

* Oracle Database SQL Tuning Guide: Managing Indexes

* Oracle Database SQL Tuning Guide: Using Indexes and Clusters

NEW QUESTION # 19

Which two statements are true about disabling Automatic Shared Memory Management (ASMM)?

- A. All auto-tuned SGA components are reset to their original user-defined values.
- B. All SGA components retain their current sizes at the time of disabling.
- C. The SGA size remains unaffected after disabling ASMM.
- D. It requires a database instance restart to take effect.
- E. Both SGA_TARGET and SGA_MAX_SIZE must be set to zero.
- F. All SGA components excluding fixed SGA and other internal allocations are readjusted immediately after disabling ASMM.

Answer: B,C

Explanation:

When ASMM is disabled, the sizes of the automatically managed SGA components remain at their current values. ASMM is controlled by the SGA_TARGET parameter. If SGA_TARGET is set to a non-zero value, ASMM is enabled and Oracle will automatically manage the sizes of the various SGA components. When ASMM is disabled, by setting SGA_TARGET to zero, the SGA components that were automatically sized will retain their current sizes rather than being reset to their original user-defined values. The overall size of the SGA remains the same unless manually changed by modifying individual component sizes or SGA_MAX_SIZE.

References:

* Oracle Database Administration Guide, 19c

* Oracle Database Performance Tuning Guide, 19c

NEW QUESTION # 20

Users complain about slowness and session interruptions. Additional checks reveal the following error in the application log:



```
java.sql.SQLException: ORA-00060: deadlock detected while waiting for resource
```

Which file has additional information about this error?

- A. SQL trace file automatically generated by the error
- B. Session trace file SQL trace file automatically generated by the error
- C. ASH report
- D. Alert log

Answer: D

Explanation:

When an ORA-00060 deadlock error occurs, detailed information about the error and the deadlock graph are dumped into the alert log. This log contains a trace file name that you can use to find additional detailed information about the sessions involved in the deadlock and the SQL statements they were executing.

References:

* Oracle Database Administrator's Guide, 19c

* Oracle Database Error Messages, 19c

NEW QUESTION # 21

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