

Oracle 1z1-084 Certification Exam Infor & Exam 1z1-084 Revision Plan

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Oracle 1Z0-084 Exam

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Candidates who pass the Oracle 1Z0-084 exam will be able to demonstrate their expertise in performance and tuning management of Oracle Database 19c. They will be able to use various performance tuning tools and techniques to optimize database performance and ensure smooth operation. They will also be able to identify performance issues and implement solutions to improve database performance.

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Oracle 1Z0-084 certification exam covers a wide range of topics related to performance and tuning management, including database monitoring, performance analysis, performance tuning, and troubleshooting. 1z1-084 Exam also covers advanced topics such as resource management, database consolidation, and high availability. To pass the exam, candidates must have a deep understanding of all these topics and must be able to apply their knowledge in real-world scenarios.

Oracle Database 19c Performance and Tuning Management Sample Questions (Q20-Q25):

NEW QUESTION # 20

Accessing the SALES tables causes excessive db file sequential read wait events.

Examine this AWR excerpt:

Examine this AWR excerpt:							
Segments by Physical Reads							
Owner	Tablespace Name	Object Name	Subobject Name	Obj. Type	Physical Reads	%Total	
SH2	SH2_DATA	SALES	TABLE		4,854,865	69.31	
SH2	SH2_DATA	IX SALES_CUST	INDEX		683,225	11.53	

Now, examine these attributes displayed by querying dba_tables:

OWNER	TABLE_NAME	NUM_ROWS	BLOCKS	PCT_FREE	PCT_USED
INI_TRANS	CHAIN_CNT	AVG_ROW_LEN			
SH2	SALES	33675372	118337	20	50

Finally, examine these parameter settings:

NAME	VALUE
db_block_size	8192
db_file_multiblock_read_count	128
sga_target	132G
sga_max_size	132G

Which two must both be used to reduce these excessive waits?

- A. Increase PCTFREE for the SALES table.
- **B. Partition the SALES table.**
- C. Coalesce all sales table indexes.
- D. Re-create the SALES table.
- **E. Compress the SALES table.**

Answer: B,E

Explanation:

The AWR excerpt points to excessive physical reads on the SALES table and index, suggesting the need for optimizing table storage and access.

Partitioning the SALES table (A) can reduce 'db file sequential read' waits by breaking down the large SALES table into smaller, more manageable pieces. This can localize the data and reduce the I/O necessary for query operations.

Compressing the SALES table (D) can also help reduce I/O by minimizing the amount of data that needs to be read from disk. This can also improve cache utilization and reduce the 'db file sequential read' waits.

References:

* Oracle Database VLDB and Partitioning Guide, 19c

* Oracle Database Administrator's Guide, 19c

These changes are recommended based on Oracle's best practices for managing large tables and reducing I/O waits, ensuring better performance and efficiency.

NEW QUESTION # 21

You need to collect and aggregate statistics for the ACCTG service and PAYROLL module, and execute:

```
BEGIN
  DBMS_MONITOR.SERV_MOD_ACT_STAT_ENABLE (
    service_name => 'ACCTG',
    module_name => 'PAYROLL' );
END;
```

Where do you find the output of this command?

- A. In \$ORACLE_BASE/diag/rdbms/<db unique name>/<instance name>/trace
- B. In the current working directory
- C. By viewing V\$SERVICE_STATS
- **D. By viewing V\$SERV_MOD_ACT_STATS**

Answer: D

Explanation:

When you enable statistics gathering for a specific service and module using DBMS_MONITOR.SERV_MOD_ACT_STAT_ENABLE, the output is aggregated and can be viewed using the V\$SERV_MOD_ACT_STATS dynamic performance view. This view contains the cumulative statistics of database activity broken down by service and module, which is exactly what you collect when executing the provided command.

* B (Incorrect): While many types of trace files are located in the Diagnostic Destination directory (\$ORACLE_BASE/diag), the aggregated statistics for services and modules are not written to trace files but are instead viewable through dynamic performance views.

* C (Incorrect): The V\$SERVICE_STATS view provides service-level statistics but does not provide the combined service/module-level breakdown.

* D (Incorrect): The output of the PL/SQL block is not written to a file in the current working directory; it is stored in the data dictionary and accessible via dynamic performance views.

References:

* Oracle Database PL/SQL Packages and Types Reference: DBMS_MONITOR

* Oracle Database Reference: V\$SERV_MOD_ACT_STATS

NEW QUESTION # 22

You manage a 19c database with default optimizer settings.

This statement is used extensively as subquery in the application queries:

```
SELECT city_id FROM sh2.sales WHERE city_id=:B1
```

You notice the performance of these queries is often poor and, therefore, execute:

```
SELECT city_id, COUNT(*) FROM sh2.sales GROUP BY city_id;
```

Examine the results:

CITY_ID	COUNT(*)
1	
2	1
3	12
4	121
5	1218921
6	118

There is no index on the CITY_ID column.

Which two options improve the performance?

- A. Activate the adaptive plans.
- **B. Create an index on the CITY ID column.**
- C. Force the subquery to use dynamic sampling.
- D. Use a SQL Profile to enforce the appropriate plan.
- **E. Generate frequency histograms on the CITY_ID column.**

Answer: B,E

Explanation:

In this scenario, creating an index and generating frequency histograms are two methods that can potentially improve performance:

- * A (Correct): Generating frequency histograms on the CITY_ID column can help the optimizer make better decisions regarding the execution plan, especially if the data distribution is skewed. Histograms provide the optimizer with more detailed information about the data distribution in a column, which is particularly useful for columns with non-uniform distributions.
- * B (Correct): Creating an index on the CITY_ID column would speed up queries that filter on this column, especially if it's used frequently in the WHERE clause as a filter. An index would allow for an index range scan instead of a full table scan, reducing the I/O and time needed to execute such queries.
- * C (Incorrect): While SQL profiles can be used to improve the performance of specific SQL statements, they are usually not the first choice for such a problem, and creating a profile does not replace the need for proper indexing or statistics.
- * D (Incorrect): Forcing the subquery to use dynamic sampling might not provide a consistent performance benefit, especially if the table statistics are not representative or are outdated. However, dynamic sampling is not as effective as having accurate statistics and a well-chosen index.
- * E (Incorrect): Adaptive plans can adjust the execution strategy based on the conditions at runtime.

While they can be useful in certain scenarios, in this case, creating an index and ensuring accurate statistics would likely provide a more significant performance improvement.

References:

- * Oracle Database SQL Tuning Guide: Managing Optimizer Statistics
- * Oracle Database SQL Tuning Guide: Using Indexes and Clusters

NEW QUESTION # 23

Which application lifecycle phase could be managed reactively?

- A. Testing
- B. Design and development
- C. Deployment
- D. Upgrade or migration
- E. Production

Answer: E

Explanation:

The production phase of the application lifecycle is often managed reactively. While proactive measures and performance tuning are essential, unforeseen issues can arise in production that require immediate attention and resolution. Reactive management involves monitoring performance and responding to issues as they occur, ensuring the application maintains acceptable performance levels for end-users.

References

- * Oracle Database 19c Performance Tuning Guide - Reactive Tuning

NEW QUESTION # 24

A database supporting a mixed workload is hosted on a server with 64 CPUs.

A large number of free buffer waits and buffer busy waits occur affecting performance.

The buffer cache size was then increased but after a few hours, the same wait events occur more often than before the change.

Examine these parameter settings:

NAME	TYPE	VALUE
dbwr_io_slaves	integer	0
db_file_multiblock_read_count	integer	100
db_writter_processes	integer	1
memory_target	big integer	1G

Which two actions can help reduce the number of these waits?

- A. Increasing the size of MEMORYTARGET
- B. reducing the values of DB_FILE_MULTIBLOCK_READ_COUNT to 64
- C. increasing the value of DBWRITERPROCESSES to 64,
- D. increasing the value of DB_FILE_MULTIBLOCK_READ_COUNT to 128
- E. setting dbwr_io_slaves to 64

Answer: C,E

Explanation:

Given a server with 64 CPUs, if the buffer cache size increase did not alleviate free buffer waits and buffer busy waits, one can look into optimizing I/O and the efficiency of the DB writer processes.

C: Setting the `DBWR_IO_SLAVES` parameter to a non-zero value, such as the number of CPUs, would initiate I/O slave processes to assist the DB writer process. This can help reduce I/O contention when writing from the buffer cache to disk, particularly for systems without asynchronous I/O capabilities.

D: Increasing the value of `DBWRITERPROCESSES` enables multiple DB writer processes to be active simultaneously. In a system with many CPUs, such as 64, increasing this value can improve the write throughput to disk and potentially reduce buffer busy waits.

References:

* Oracle Database Reference, 19c

* Oracle Database Performance Tuning Guide, 19c

NEW QUESTION # 25

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