# LAB 1 DATABASE TUNING

1. THE SGA IS COMPOSED OF WHAT THREE PRIMARY UNITS?

A. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

C. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. What command(s) can you use to examine the SGA memory structure?

\_desc v$memory\_dynamic\_components. Then build a select statement to look

At the components.

3. What three parameters in the spfile control the size of the SGA and

what are the current defaults for each?

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. The database buffer cache tracks what kind of buffers and activity?

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5. What dynamic performance table allows you to monitor the database buffer

cache? What query can you use to identify the ratio of datablocks currently

in the buffer cache to physical reads to place data in the buffers from disk?

What percentage of database hits in the buffer constitute good performance?

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6. The SGA shared pool is composed primarily of two entities. Name those two

entities

A. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

B. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. To ensure that the SGA is performing properly what script would you use to

identify performance problems with the SHARED SQL AREA? What

percentage of misses would require an increase in the SGA? What are the

current “hit” ratios in the database?

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8. The Data Dictionary should be entirely in memory if possible. What script

identifies the hits and misses for the Data Dictionary? What percentage

of misses would require an increase in the SGA? What are the current

“hit” ratios in the database?

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9. What is the purpose of the UNDO Segments?