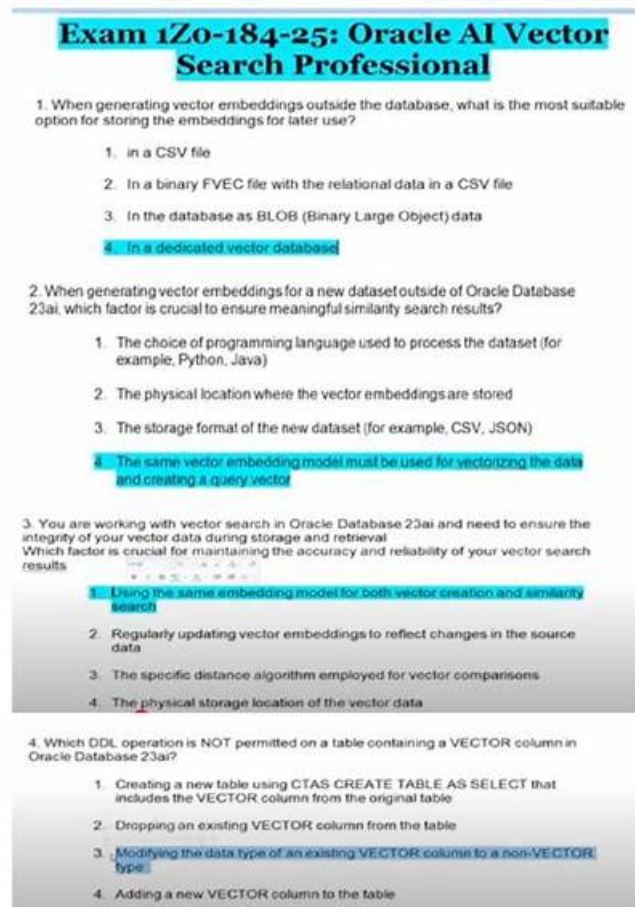


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## Oracle AI Vector Search Professional Sample Questions (Q40-Q45):

### NEW QUESTION # 40

A database administrator wants to change the VECTOR\_MEMORY\_SIZE parameter for a pluggable database (PDB) in Oracle Database 23ai. Which SQL command is correct?

- A. ALTER SYSTEM SET VECTOR\_MEMORY\_SIZE=1G SCOPE=BOTH
- B. ALTER DATABASE SET VECTOR\_MEMORY\_SIZE=1G SCOPE=VECTOR
- C. ALTER SYSTEM RESET VECTOR\_MEMORY\_SIZE
- D. ALTER SYSTEM SET VECTOR\_MEMORY\_SIZE=1G SCOPE=SGA

**Answer: A**

Explanation:

VECTOR\_MEMORY\_SIZE in Oracle 23ai controls memory allocation for vector operations (e.g., indexing, search) in the SGA. For a PDB, ALTER SYSTEM adjusts parameters, and SCOPE=BOTH (A) applies the change immediately and persists it across restarts (modifying the SPFILE). Syntax: ALTER SYSTEM SET VECTOR\_MEMORY\_SIZE=1G SCOPE=BOTH sets it to 1 GB. Option B (ALTER DATABASE) is invalid for this parameter, and SCOPE=VECTOR isn't a valid scope. Option C (SCOPE=SGA) isn't a scope value; valid scopes are MEMORY, SPFILE, or BOTH. Option D (RESET) reverts to default, not sets a value. In a PDB, this must be executed in the PDB context, not CDB, and BOTH ensures durability-key for production environments where vector workloads demand consistent memory.

### NEW QUESTION # 41

Which function should you use to determine the storage format of a vector?

- A. VECTOR\_CHUNKS
- B. VECTOR\_NORM
- C. VECTOR\_DIMENSION\_FORMAT
- D. VECTOR\_EMBEDDING

**Answer: C**

### NEW QUESTION # 42

What is the advantage of using Euclidean Squared Distance rather than Euclidean Distance in similarity search queries?

- A. It is the default distance metric for Oracle AI Vector Search
- B. It guarantees higher accuracy than Euclidean Distance
- C. It supports hierarchical partitioning of vectors
- D. It is simpler and faster because it avoids square-root calculations

**Answer: D**

Explanation:

Euclidean Squared Distance (L2-squared) skips the square-root step of Euclidean Distance (L2), i.e.,  $\sum (x_i - y_i)^2$  vs.  $\sqrt{\sum (x_i - y_i)^2}$ . Since the square root is monotonic, ranking order remains identical, but avoiding it (C) reduces computational cost, making queries faster-crucial for large-scale vector search. It's not the default metric (A); cosine is often default in Oracle 23ai. It doesn't relate to partitioning (B), an indexing feature. Accuracy (D) is equivalent, as rankings are preserved. Oracle's documentation notes L2-squared as an optimization for performance.

### NEW QUESTION # 43

Which SQL statement correctly adds a VECTOR column named "v" with 4 dimensions and FLOAT32 format to an existing table named "my\_table"?

- A. ALTER TABLE my\_table MODIFY (v VECTOR(4, FLOAT32))

- B. ALTER TABLE my\_table ADD v VECTOR(4, FLOAT32)
- **C. ALTER TABLE my\_table ADD (v VECTOR(4, FLOAT32))**
- D. UPDATE my\_table SET v = VECTOR(4, FLOAT32)

**Answer: C**

Explanation:

To add a new column to an existing table, Oracle uses the ALTER TABLE statement with the ADD clause. Option B, ALTER TABLE my\_table ADD (v VECTOR(4, FLOAT32)), correctly specifies the column name "v", the VECTOR type, and its attributes (4 dimensions, FLOAT32 precision) within parentheses, aligning with Oracle's DDL syntax for VECTOR columns. Option A uses MODIFY, which alters existing columns, not adds new ones, making it incorrect here. Option C uses UPDATE, a DML statement for updating data, not a DDL operation for schema changes. Option D omits parentheses around the VECTOR specification, which is syntactically invalid as Oracle requires dimensions and format to be enclosed. The SQL Language Reference confirms this syntax for adding VECTOR columns.

#### NEW QUESTION # 44

If a query vector uses a different distance metric than the one used to create the index, what happens?

- A. A warning is logged, but the query executes
- B. An exact match search is triggered
- C. The index automatically updates
- **D. The query fails**

**Answer: D**

Explanation:

In Oracle Database 23ai, vector indexes (e.g., HNSW, IVF) are built with a specific distance metric (e.g., cosine, Euclidean) that defines how similarity is computed. If a query specifies a different metric (e.g., querying with Euclidean on a cosine-based index), the index cannot be used effectively, and the query fails (A) with an error, as the mismatch invalidates the index's structure. An exact match search (B) doesn't occur automatically; Oracle requires explicit control. The index doesn't update itself (C), and warnings (D) are not the default behavior-errors are raised instead. Oracle's documentation mandates metric consistency for index usage.

#### NEW QUESTION # 45

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