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

NEW QUESTION # 40
In Oracle Database 23ai, which SQL function calculates the distance between two vectors using the Euclidean metric?

- A. L1_DISTANCE
- B. COSINE_DISTANCE
- C. HAMMING_DISTANCE
- D. L2_DISTANCE

Answer: D

Explanation:
In Oracle Database 23ai, vector distance calculations are primarily handled by the VECTOR_DISTANCE function, which supports multiple metrics (e.g., COSINE, EUCLIDEAN) specified as parameters (e.g., VECTOR_DISTANCE(v1, v2, EUCLIDEAN)). However, the question implies distinct functions, a common convention in some databases or libraries, and Oracle's documentation

aligns L2_DISTANCE (B) with the Euclidean metric. L2 (Euclidean) distance is the straight-line distance between two points in vector space, computed as $\sqrt{\sum(x_i - y_i)^2}$, where x_i and y_i are vector components. For example, for vectors [1, 2] and [4, 6], L2 distance is $\sqrt{((1-4)^2 + (2-6)^2)} = \sqrt{(9 + 16)} = 5$.

Option A, L1_DISTANCE, represents Manhattan distance ($\sum|x_i - y_i|$), summing absolute differences-not Euclidean. Option C, HAMMING_DISTANCE, counts differing bits, suited for binary vectors (e.g., INT8), not continuous Euclidean spaces typically used with FLOAT32 embeddings. Option D, COSINE_DISTANCE (1 - cosine similarity), measures angular separation, distinct from Euclidean's magnitude-inclusive approach. While VECTOR_DISTANCE is the general function in 23ai, L2_DISTANCE may be an alias or a contextual shorthand in some Oracle AI examples, reflecting Euclidean's prominence in geometric similarity tasks. Misinterpreting this could lead to choosing COSINE for spatial tasks where magnitude matters, skewing results. Oracle's vector search framework supports Euclidean via VECTOR_DISTANCE, but B aligns with the question's phrasing.

NEW QUESTION # 41

Which parameter is used to define the number of closest vector candidates considered during HNSW index creation?

- **A. EFCONSTRUCTION**
- B. TARGET_ACCURACY
- C. VECTOR_MEMORY_SIZE
- D. NEIGHBOURS

Answer: A

Explanation:
In Oracle 23ai, EFCONSTRUCTION (A) controls the number of closest vector candidates (edges) considered during HNSW index construction, affecting the graph's connectivity and search quality. Higher values improve accuracy but increase build time. VECTOR_MEMORY_SIZE (B) sets memory allocation, not candidate count. NEIGHBOURS (C) isn't a parameter; it might confuse with NEIGHBOR_PARTITIONS (IVF). TARGET_ACCURACY (D) adjusts query-time accuracy, not index creation. Oracle's HNSW documentation specifies EFCONSTRUCTION for this purpose.

NEW QUESTION # 42

Which vector index available in Oracle Database 23ai is known for its speed and accuracy, making it a preferred choice for vector search?

- A. Inverted File System (IFS) index
- B. Binary Tree (BT) index
- C. Inverted File (IVF) index
- **D. Hierarchical Navigable Small World (HNSW) index**

Answer: D

Explanation:
Oracle 23ai supports two main vector indexes: IVF and HNSW. HNSW (D) is renowned for its speed and accuracy, using a hierarchical graph to connect vectors, enabling fast ANN searches with high recall-ideal for latency-sensitive applications like real-time RAG. IVF (C) partitions vectors for scalability but often requires tuning (e.g., NEIGHBOR_PARTITIONS) to match HNSW's accuracy, trading off recall for memory efficiency. BT (A) isn't a 23ai vector index; it's a generic term unrelated here. IFS (B) seems a typo for IVF; no such index exists. HNSW's graph structure outperforms IVF in small-to-medium datasets or where precision matters, as Oracle's documentation and benchmarks highlight, making it a go-to for balanced performance.

NEW QUESTION # 43

Which is NOT a feature or capability related to AI and Vector Search in Exadata?

- A. AI Smart Scan
- B. Vector Replication with GoldenGate
- C. Loading Vector Data using SQL*Loader
- **D. Native Support for Vector Search Only within the Database Server**

Answer: D

Explanation:

Exadata in Oracle Database 23ai enhances AI and vector search capabilities. Vector Replication with GoldenGate (B) supports real-time vector data distribution. SQL*Loader (C) loads vector data into VECTOR columns. AI Smart Scan (D) accelerates AI workloads using Exadata's storage optimizations. However, "Native Support for Vector Search Only within the Database Server" (A) is not a feature; vector search is natively supported across Exadata's architecture, leveraging both database and storage layers (e.g., via Smart Scan), not restricted to the server alone. This option misrepresents Exadata's distributed capabilities, making it the correct "NOT" answer.

NEW QUESTION # 44

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 ADD (v VECTOR(4, FLOAT32))
- B. UPDATE my_table SET v = VECTOR(4, FLOAT32)
- C. ALTER TABLE my_table ADD v VECTOR(4, FLOAT32)
- D. ALTER TABLE my_table MODIFY (v VECTOR(4, FLOAT32))

Answer: A

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 # 45

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