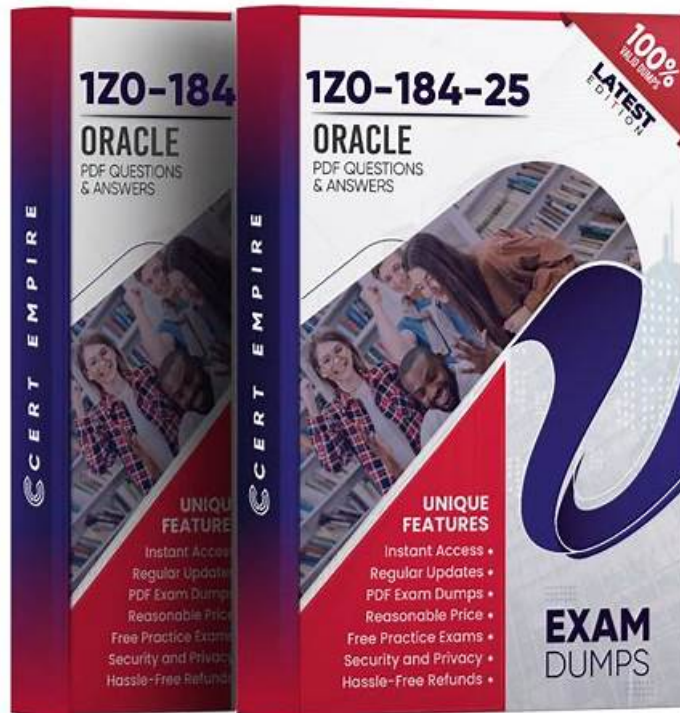


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Oracle 1Z0-184-25 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> • Leveraging Related AI Capabilities: This section evaluates the skills of Cloud AI Engineers in utilizing Oracle’s AI-enhanced capabilities. It covers the use of Exadata AI Storage for faster vector search, Select AI with Autonomous for querying data using natural language, and data loading techniques using SQL Loader and Oracle Data Pump to streamline AI-driven workflows.
Topic 2	<ul style="list-style-type: none"> • Performing Similarity Search: This section tests the skills of Machine Learning Engineers in conducting similarity searches to find relevant data points. It includes performing exact and approximate similarity searches using vector indexes. Candidates will also work with multi-vector similarity search to handle searches across multiple documents for improved retrieval accuracy.
Topic 3	<ul style="list-style-type: none"> • Using Vector Indexes: This section evaluates the expertise of AI Database Specialists in optimizing vector searches using indexing techniques. It covers the creation of vector indexes to enhance search speed, including the use of HNSW and IVF vector indexes for performing efficient search queries in AI-driven applications.

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Oracle AI Vector Search Professional Sample Questions (Q34-Q39):

NEW QUESTION # 34

Which PL/SQL package is primarily used for interacting with Generative AI services in Oracle Database 23ai?

- A. DBMS_ML
- B. DBMS_VECTOR_CHAIN
- C. DBMS_AI
- D. DBMS_GENAI

Answer: C

Explanation:

Oracle Database 23ai introduces DBMS_AI as the primary PL/SQL package for interacting with Generative AI services, such as OCI Generative AI, enabling features like natural language query processing (e.g., Select AI) and AI-driven insights. DBMS_ML (B) focuses on machine learning model training and management, not generative AI. DBMS_VECTOR_CHAIN (C) supports vector processing workflows (e.g., document chunking, embedding), but it's not the main interface for generative AI services. DBMS_GENAI (D) is not a recognized package in 23ai documentation. DBMS_AI's role is highlighted in Oracle's AI integration features for 23ai.

NEW QUESTION # 35

What is the primary purpose of a similarity search in Oracle Database 23ai?

- A. To find exact matches in BLOB data
- B. To group vectors by their exact scores
- C. Optimize relational database operations to compute distances between all data points in a database
- D. To retrieve the most semantically similar entries using distance metrics between different vectors

Answer: D

Explanation:

Similarity search in Oracle 23ai (C) uses vector embeddings in VECTOR columns to retrieve entries semantically similar to a query vector, based on distance metrics (e.g., cosine, Euclidean) via functions like VECTOR_DISTANCE. This is key for AI applications like RAG, finding "close" rather than exact matches. Optimizing relational operations (A) is unrelated; similarity search is vector-specific. Exact matches in BLOBs (B) don't leverage vector semantics. Grouping by scores (D) is a post-processing step, not the primary purpose. Oracle's documentation defines similarity search as retrieving semantically proximate vectors.

NEW QUESTION # 36

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

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

Answer: C

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 # 37

A machine learning team is using IVF indexes in Oracle Database 23ai to find similar images in a large dataset. During testing, they observe that the search results are often incomplete, missing relevant images. They suspect the issue lies in the number of partitions probed. How should they improve the search accuracy?

- A. Change the index type to HNSW for better accuracy
- B. Add the TARGET_ACCURACY clause to the query with a higher value for the accuracy
- C. Increase the VECTOR_MEMORY_SIZE initialization parameter
- D. Re-create the index with a higher EFCONSTRUCTION value

Answer: B

Explanation:

IVF (Inverted File) indexes in Oracle 23ai partition vectors into clusters, probing a subset during queries for efficiency. Incomplete results suggest insufficient partitions are probed, reducing recall. The TARGET_ACCURACY clause (A) allows users to specify a desired accuracy percentage (e.g., 90%), dynamically increasing the number of probed partitions to meet this target, thus improving accuracy at the cost of latency. Switching to HNSW (B) offers higher accuracy but requires re-indexing and may not be necessary if IVF tuning suffices. Increasing VECTOR_MEMORY_SIZE (C) allocates more memory for vector operations but doesn't directly affect probe count. EFCONSTRUCTION (D) is an HNSW parameter, irrelevant to IVF. Oracle's IVF documentation highlights TARGET_ACCURACY as the recommended tuning mechanism.

NEW QUESTION # 38

Which is a characteristic of an approximate similarity search in Oracle Database 23ai?

- A. It always guarantees 100% accuracy
- B. It trades off accuracy for faster performance
- C. It compares every vector in the dataset
- D. It is slower than exact similarity search

Answer: B

Explanation:

Approximate similarity search (ANN) in Oracle 23ai (B) uses indexes (e.g., HNSW, IVF) to trade accuracy for speed, returning near-matches faster by not comparing all vectors. Exact search compares every vector (A), not ANN. It doesn't guarantee 100% accuracy (C); that's exact search. It's faster, not slower (D), than exact search due to indexing. Oracle's documentation defines ANN's speed-accuracy trade-off as its hallmark.

NEW QUESTION # 39

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