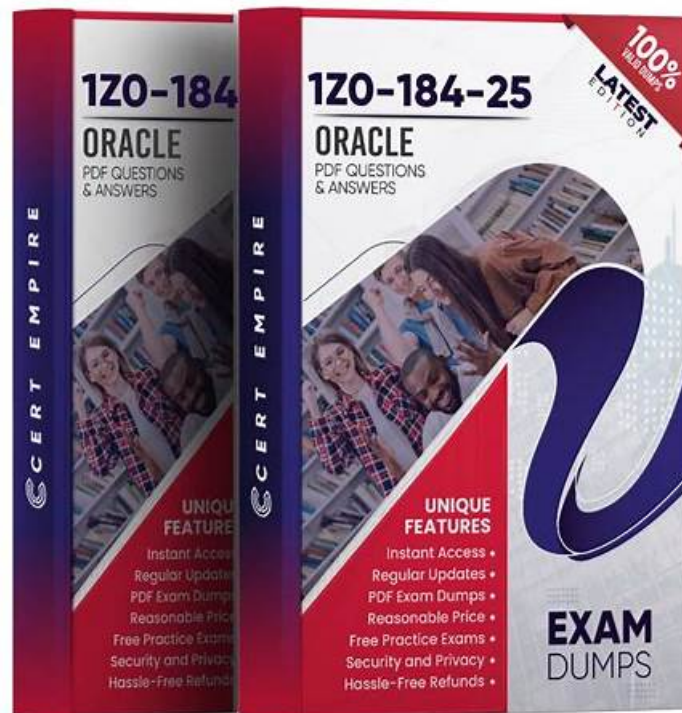# 1Z0-184-25 Exam Flashcards - 1Z0-184-25 Sample Test Online

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Oracle 1Z0-184-25 Exam Syllabus Topics:

Topic	Details

Topic 1	• Building a RAG Application: This section assesses the knowledge of AI Solutions Architects in implementing retrieval-augmented generation (RAG) applications. Candidates will learn to build RAG applications using PL • SQL and Python to integrate AI models with retrieval techniques for enhanced AI-driven decision-making.
Topic 2	• Using Vector Embeddings: This section measures the abilities of AI Developers in generating and storing vector embeddings for AI applications. It covers generating embeddings both inside and outside the Oracle database and effectively storing them within the database for efficient retrieval and processing.
Topic 3	• 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 4	• Understand Vector Fundamentals: This section of the exam measures the skills of Data Engineers in working with vector data types for storing embeddings and enabling semantic queries. It covers vector distance functions and metrics used in AI vector search. Candidates must demonstrate proficiency in performing DML and DDL operations on vectors to manage data efficiently.

Oracle AI Vector Search Professional Sample Questions (Q26-Q31):

NEW QUESTION # 26
What is the primary difference between the HNSW and IVF vector indexes in Oracle Database 23ai?

- A. HNSW uses an in-memory neighbor graph for faster approximate searches, whereas IVF uses the buffer cache with partitions
- B. HNSW is partition-based, whereas IVF uses neighbor graphs for indexing
- C. Both operate identically but differ in memory usage
- D. HNSW guarantees accuracy, whereas IVF sacrifices performance for accuracy

Answer: A

NEW QUESTION # 27
What is the primary purpose of the DBMS_VECTOR_CHAIN.UTL_TO_CHUNKS package in a RAG application?

- A. To split a large document into smaller chunks to improve vector quality by minimizing token truncation
- B. To generate vector embeddings from a text document
- C. To convert a document into a single, large text string
- D. To load a document into the database

Answer: A

Explanation:
In Oracle Database 23ai, the DBMS_VECTOR_CHAIN package supports Retrieval Augmented Generation (RAG) workflows by providing utilities for vector processing. The UTL_TO_CHUNKS function specifically splits large documents into smaller, manageable text chunks. This is critical in RAG applications because embedding models (e.g., BERT, ONNX models) have token limits (e.g., 512 tokens). Splitting text minimizes token truncation, ensuring that each chunk retains full semantic meaning, which improves the quality of subsequent vector embeddings and search accuracy. Generating embeddings (A) is handled by functions like VECTOR_EMBEDDING, not UTL_TO_CHUNKS. Loading documents (B) is a separate process (e.g., via SQL*Loader). Converting to a single text string (D) contradicts the chunking purpose and risks truncation. Oracle's documentation on DBMS_VECTOR_CHAIN emphasizes chunking for optimizing vector quality in RAG.

NEW QUESTION # 28
What is the advantage of using Euclidean Squared Distance rather than Euclidean Distance in similarity search queries?

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

Answer: C

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 # 29
You are asked to fetch the top five vectors nearest to a query vector, but only for a specific category of documents. Which query structure should you use?

- A. Apply relational filters and a similarity search in the query
- B. Perform the similarity search without a WHERE clause
- C. Use UNION ALL with vector operations
- D. Use VECTOR_INDEX_HINT and NO WHERE clause

Answer: A

Explanation:
To fetch the top five nearest vectors for a specific category, combine relational filtering (e.g., WHERE category = 'X') with similarity search (C) (e.g., VECTOR_DISTANCE with ORDER BY and FETCH FIRST 5 ROWS). UNION ALL (A) is for combining result sets, not filtering. Omitting WHERE (B) ignores the category constraint. VECTOR_INDEX_HINT (D) influences index usage, not filtering, and skipping WHERE misses the requirement. Oracle's vector search examples use WHERE clauses with similarity functions for such tasks.

NEW QUESTION # 30
What is the primary purpose of the VECTOR_EMBEDDING function in Oracle Database 23ai?

- A. To calculate vector distances
- B. To calculate vector dimensions
- C. To serialize vectors into a string
- D. To generate a single vector embedding for data

Answer: D

NEW QUESTION # 31
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