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### Oracle 1Z0-184-25 Exam Syllabus Topics:

Topic	Details

Topic 1	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>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.</li> </ul>

## Oracle AI Vector Search Professional Sample Questions (Q19-Q24):

### NEW QUESTION # 19

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

- A. DBMS\_AI
- B. DBMS\_ML
- C. DBMS\_GENAI
- D. DBMS\_VECTOR\_CHAIN

**Answer: A**

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 # 20

You need to generate a vector from the string '[1.2, 3.4]' in FLOAT32 format with 2 dimensions. Which function will you use?

- A. FROM\_VECTOR
- B. VECTOR\_SERIALIZE
- C. TO\_VECTOR
- D. VECTOR\_DISTANCE

**Answer: C**

Explanation:

In Oracle Database 23ai, the TO\_VECTOR function (A) converts a string representation of a vector (e.g., '[1.2, 3.4]') into a VECTOR data type with specified format (e.g., FLOAT32) and dimensions (here, 2). It's designed for creating vectors from text input, matching the requirement. VECTOR\_DISTANCE (B) calculates distances between vectors, not generates them. FROM\_VECTOR (C) isn't a documented function; it might be confused with serialization or extraction, but it's not standard. VECTOR\_SERIALIZE (D) converts a vector to a string, the opposite of what's needed. Oracle's SQL reference confirms TO\_VECTOR for this purpose, parsing the string into a 2D FLOAT32 vector.

### NEW QUESTION # 21

You are tasked with creating a table to store vector embeddings with the following characteristics: Each vector must have exactly 512 dimensions, and the dimensions should be stored as 32-bit floating point numbers. Which SQL statement should you use?

- A. CREATE TABLE vectors (id NUMBER, embedding VECTOR(512, FLOAT32))
- B. CREATE TABLE vectors (id NUMBER, embedding VECTOR)
- C. CREATE TABLE vectors (id NUMBER, embedding VECTOR(\*, INT8))
- D. CREATE TABLE vectors (id NUMBER, embedding VECTOR(512))

**Answer: A**

Explanation:

In Oracle 23ai, the VECTOR data type can specify dimensions and precision. CREATE TABLE vectors (id NUMBER, embedding VECTOR(512, FLOAT32)) (D) defines a column with exactly 512 dimensions and FLOAT32 (32-bit float) format, meeting both requirements. Option A omits the format (defaults vary), risking mismatch. Option B is unspecified, allowing variable dimensions-not "exactly 512." Option C uses INT8, not FLOAT32, and '\*' denotes undefined dimensions. Oracle's SQL reference confirms this syntax for precise VECTOR definitions.

### NEW QUESTION # 22

What is the significance of splitting text into chunks in the process of loading data into Oracle AI Vector Search?

- A. To minimize token truncation as each vector embedding model has its own maximum token limit
- B. To reduce the computational burden on the embedding model
- C. To facilitate parallel processing of the data during vectorization

**Answer: A**

Explanation:

Splitting text into chunks (C) in Oracle AI Vector Search (e.g., via DBMS\_VECTOR\_CHAIN.UTL\_TO\_CHUNKS) ensures that each segment fits within the token limit of embedding models (e.g., 512 tokens for BERT), preventing truncation that loses semantic content. This improves vector quality for similarity search. Reducing computational burden (A) is a secondary effect, not the primary goal. Parallel processing (B) may occur but isn't the main purpose; chunking is about model compatibility. Oracle's documentation emphasizes chunking to align with embedding model constraints.

### NEW QUESTION # 23

What is the default distance metric used by the VECTOR\_DISTANCE function if none is specified?

- A. Cosine
- B. Euclidean
- C. Hamming
- D. Manhattan

**Answer: A**

Explanation:

The VECTOR\_DISTANCE function in Oracle 23ai computes vector distances, and if no metric is specified (e.g., VECTOR\_DISTANCE(v1, v2)), it defaults to Cosine (C). Cosine distance (1 - cosine similarity) is widely used for text embeddings due to its focus on angular separation, ignoring magnitude-fitting for normalized vectors from models like BERT. Euclidean (A) measures straight-line distance, not default. Hamming (B) is for binary vectors, rare in 23ai's FLOAT32 context. Manhattan (D) sums absolute differences, less common for embeddings. Oracle's choice of Cosine reflects its AI focus, as documentation confirms, aligning with industry norms for semantic similarity-vital for users assuming defaults in queries.

### NEW QUESTION # 24

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