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

Topic	Details
Topic 1	<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 2	<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 3	<ul style="list-style-type: none"><li>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</li><li>SQL and Python to integrate AI models with retrieval techniques for enhanced AI-driven decision-making.</li></ul>

Topic 4	<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>
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### Oracle AI Vector Search Professional Sample Questions (Q59-Q64):

#### NEW QUESTION # 59

Which SQL function is used to create a vector embedding for a given text string in Oracle Database 23ai?

- A. `EMBED_TEXT`
- B. `VECTOR_EMBEDDING`
- C. `CREATE_VECTOR_EMBEDDING`
- D. `GENERATE_EMBEDDING`

**Answer: B**

Explanation:

The `VECTOR_EMBEDDING` function in Oracle Database 23ai generates a vector embedding from input data (e.g., a text string) using a specified model, such as an ONNX model loaded into the database. It's designed for in-database embedding creation, supporting vector search and AI applications. Options A, B, and C (`GENERATE_EMBEDDING`, `CREATE_VECTOR_EMBEDDING`, `EMBED_TEXT`) are not valid SQL functions in 23ai. `VECTOR_EMBEDDING` integrates seamlessly with the `VECTOR` data type and is documented as the standard method for embedding generation in SQL queries.

#### NEW QUESTION # 60

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_DISTANCE`
- C. `TO_VECTOR`
- D. `VECTOR_SERIALIZE`

**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 # 61

What is the default distance metric used by the `VECTOR_DISTANCE` function if none is specified?

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

**Answer: D**

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 # 62

How is the security interaction between Autonomous Database and OCI Generative AI managed in the context of Select AI?

- A. By encrypting all communication between the Autonomous Database and OCI Generative AI using TLS/SSL protocols
- **B. By utilizing Resource Principals, which grant the Autonomous Database instance access to OCI Generative AI without exposing sensitive credentials**
- C. By requiring users to manually enter their OCI API keys each time they execute a natural language query
- D. By establishing a secure VPN tunnel between the Autonomous Database and OCI Generative AI service

**Answer: B**

Explanation:

In Oracle Database 23ai's Select AI, security between the Autonomous Database and OCI Generative AI is managed using Resource Principals (B). This mechanism allows the database instance to authenticate itself to OCI services without hardcoding credentials, enhancing security by avoiding exposure of sensitive keys. TLS/SSL encryption (A) is used for data-in-transit security, but it's a complementary layer, not the primary management method. A VPN tunnel (C) is unnecessary within OCI's secure infrastructure and not specified for Select AI. Manual API key entry (D) is impractical and insecure for automated database interactions. Oracle's documentation on Select AI highlights Resource Principals as the secure, scalable authentication method.

## NEW QUESTION # 63

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

**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 # 64

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