

1Z0-184-25 Training Materials & 1Z0-184-25 Exam Dumps & 1Z0-184-25 Study Guide

Exam 1Z0-184-25: Oracle AI Vector Search Professional

1. When generating vector embeddings outside the database, what is the most suitable option for storing the embeddings for later use?

1. in a CSV file
2. In a binary FVEC file with the relational data in a CSV file
3. In the database as BLOB (Binary Large Object) data
4. In a dedicated vector database

2. When generating vector embeddings for a new dataset outside of Oracle Database 23ai, which factor is crucial to ensure meaningful similarity search results?

1. The choice of programming language used to process the dataset (for example, Python, Java)
2. The physical location where the vector embeddings are stored
3. The storage format of the new dataset (for example, CSV, JSON)
4. The same vector embedding model must be used for vectorizing the data and creating a query vector

3. You are working with vector search in Oracle Database 23ai and need to ensure the integrity of your vector data during storage and retrieval. Which factor is crucial for maintaining the accuracy and reliability of your vector search results?

1. Using the same embedding model for both vector creation and similarity search
2. Regularly updating vector embeddings to reflect changes in the source data
3. The specific distance algorithm employed for vector comparisons
4. The physical storage location of the vector data

4. Which DDL operation is NOT permitted on a table containing a VECTOR column in Oracle Database 23ai?

1. Creating a new table using CTAS CREATE TABLE AS SELECT that includes the VECTOR column from the original table
2. Dropping an existing VECTOR column from the table
3. Modifying the data type of an existing VECTOR column to a non-VECTOR type
4. Adding a new VECTOR column to the table

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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"> • 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 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.
Topic 4	<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.

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Oracle AI Vector Search Professional Sample Questions (Q33-Q38):

NEW QUESTION # 33

Which Python library is used to vectorize text chunks and the user's question in the following example?

```
import oracledb
connection = oracledb.connect(user=un, password=pw, dsn=ds)
table_name = "Page"
with connection.cursor() as cursor:
    create_table_sql = f"""
    CREATE TABLE IF NOT EXISTS {table_name} (
    id NUMBER PRIMARY KEY,
    payload CLOB CHECK (payload IS JSON),
    vector VECTOR
    )"""
try:
    cursor.execute(create_table_sql)
except oracledb.DatabaseError as e:
    raise
connection.autocommit = True
from sentence_transformers import SentenceTransformer
encoder = SentenceTransformer('all-MiniLM-L12-v2')
```

- A. json
- B. oracledb
- C. sentence_transformers
- D. oci

Answer: C

Explanation:

In the provided Python code, the sentence_transformers library (A) is imported and used to instantiate a SentenceTransformer object with the 'all-MiniLM-L12-v2' model. This library is designed to vectorize text (e.g., chunks and questions) into embeddings, a common step in RAG applications. The oracledb library (C) handles database connectivity, not vectorization. oci (B) is for OCI

service interaction, not text embedding. json (D) processes JSON data, not vectors. The code explicitly uses sentence_transformers for vectorization, consistent with Oracle's examples for external embedding integration.

NEW QUESTION # 34

What are the key advantages and considerations of using Retrieval Augmented Generation (RAG) in the context of Oracle AI Vector Search?

- A. It focuses on training specialized LLMs within the database environment for specific tasks, offering greater control over model behavior and data privacy but potentially requiring more development effort
- B. It excels at optimizing the performance and efficiency of LLM inference through advanced caching and precomputation techniques, leading to faster response times but potentially increasing storage requirements
- C. It prioritizes real-time data extraction and summarization from various sources to ensure the LLM always has the most up-to-date information
- **D. It leverages existing database security and access controls, thereby enabling secure and controlled access to both the database content and the LLM**

Answer: D

Explanation:

RAG in Oracle AI Vector Search integrates vector search with LLMs, leveraging database-stored data. A key advantage is its use of existing database security and access controls (D), ensuring that sensitive enterprise data remains secure while being accessible to LLMs, aligning with Oracle's security model (e.g., roles, privileges). Performance optimization (A) occurs but isn't the primary focus; storage increases are minimal compared to security benefits. Real-time extraction (B) is possible but not RAG's core strength, which lies in static data augmentation. Training LLMs (C) is unrelated to RAG, which uses pre-trained models. Oracle emphasizes security integration as a standout RAG feature.

NEW QUESTION # 35

What is the first step in setting up the practice environment for Select AI?

- A. Create a new user account with elevated privileges
- B. Create a policy to enable access to OCI Generative AI
- C. Drop any compartment that does not use OCI Generative AI
- **D. Optionally create an OCI compartment**

Answer: D

Explanation:

Select AI in Oracle Database 23ai enables natural language queries by integrating with OCI Generative AI services. The first step in setting up the practice environment is to optionally create an OCI compartment (A), which organizes and isolates resources in Oracle Cloud Infrastructure (OCI). This is foundational because subsequent steps-like defining policies or configuring the Autonomous Database-depend on a compartment structure, though an existing compartment can be reused, making it optional. Creating a policy (B) is a subsequent step to grant access to OCI Generative AI, requiring a compartment first. Dropping compartments (C) is irrelevant and disruptive. Creating a user account (D) is not specified as the initial step in Select AI setup. Oracle's Select AI documentation lists compartment setup as the starting point in OCI configuration.

NEW QUESTION # 36

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

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

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 # 37

Which DDL operation is NOT permitted on a table containing a VECTOR column in Oracle Database 23ai?

- **A. Modifying the data type of an existing VECTOR column to a non-VECTOR type**
- B. Creating a new table using CTAS (CREATE TABLE AS SELECT) that includes the VECTOR column from the original table
- C. Dropping an existing VECTOR column from the table
- D. Adding a new VECTOR column to the table

Answer: A

Explanation:

Oracle Database 23ai imposes restrictions on DDL operations for tables with VECTOR columns to preserve data integrity. CTAS (A) is permitted, as it copies the VECTOR column intact into a new table, maintaining its structure. Dropping a VECTOR column (B) is allowed via ALTER TABLE DROP COLUMN, as it simply removes the column without altering its type. Adding a new VECTOR column (D) is supported with ALTER TABLE ADD, enabling schema evolution. However, modifying an existing VECTOR column's data type to a non-VECTOR type (C) (e.g., VARCHAR2, NUMBER) is not permitted because VECTOR is a specialized type with dimensional and format constraints (e.g., FLOAT32), and Oracle does not support direct type conversion due to potential loss of semantic meaning and structure. This restriction is documented in Oracle's SQL reference.

NEW QUESTION # 38

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