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Oracle 1Z0-184-25 Exam Syllabus Topics:

| Topic | Details |
|---------|--|
| Topic 1 | <ul style="list-style-type: none">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 2 | <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 3 | <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 PLSQL and Python to integrate AI models with retrieval techniques for enhanced AI-driven decision-making. |
| Topic 4 | <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. |

>> 1Z0-184-25 Original Questions <<

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Oracle AI Vector Search Professional Sample Questions (Q46-Q51):

NEW QUESTION # 46

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

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

Answer: B

NEW QUESTION # 47

Which is NOT a feature or capability related to AI and Vector Search in Exadata?

- A. Native Support for Vector Search Only within the Database Server
- B. Loading Vector Data using SQL*Loader
- C. Vector Replication with GoldenGate
- D. AI Smart Scan

Answer: A

Explanation:

Exadata in Oracle Database 23ai enhances AI and vector search capabilities. Vector Replication with GoldenGate (B) supports real-time vector data distribution. SQL*Loader (C) loads vector data into VECTOR columns. AI Smart Scan (D) accelerates AI workloads using Exadata's storage optimizations. However, "Native Support for Vector Search Only within the Database Server" (A) is not a feature; vector search is natively supported across Exadata's architecture, leveraging both database and storage layers (e.g., via Smart Scan), not restricted to the server alone. This option misrepresents Exadata's distributed capabilities, making it the correct "NOT" answer.

NEW QUESTION # 48

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

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

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 # 49

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 facilitate parallel processing of the data during vectorization
- C. To reduce the computational burden on the embedding model

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 # 50

What security enhancement is introduced in Exadata System Software 24ai?

- A. Enhanced encryption algorithm for data at rest
- B. Integration with third-party security tools
- C. SNMP security (Security Network Management Protocol)

Answer: A

Explanation:

Exadata System Software 24ai (noted in context beyond 23ai) introduces an enhanced encryption algorithm for data at rest (B), strengthening security for stored data, including vectors. Third-party integration (A) isn't highlighted as a 24ai feature. SNMP security (C) relates to network monitoring, not a primary Exadata enhancement. Oracle's Exadata documentation for 24ai emphasizes advanced encryption as a key security upgrade.

NEW QUESTION # 51

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