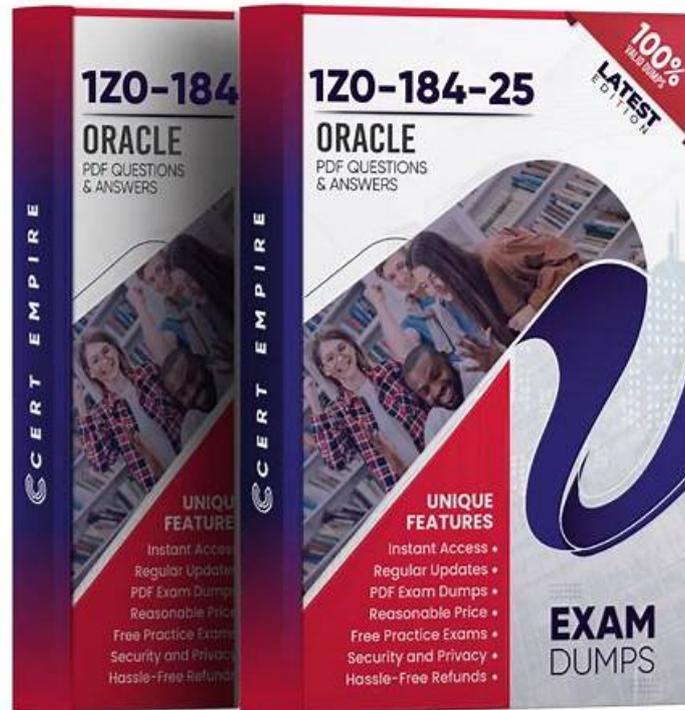


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Oracle AI Vector Search Professional Sample Questions (Q32-Q37):

NEW QUESTION # 32

What is the primary purpose of the DBMS_VECTOR_CHAIN.UTL_TO_CHUNKS package in a RAG application?

- A. To load a document into the database

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

Answer: C

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 # 33

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 guarantees accuracy, whereas IVF sacrifices performance for accuracy
- C. HNSW is partition-based, whereas IVF uses neighbor graphs for indexing
- D. Both operate identically but differ in memory usage

Answer: A

NEW QUESTION # 34

How does an application use vector similarity search to retrieve relevant information from a database, and how is this information then integrated into the generation process?

- A. Clusters similar text chunks and randomly selects one from the most relevant cluster
- B. Converts the question to keywords, searches for matches, and inserts the text into the response
- C. Encodes the question and database chunks into vectors, finds the most similar using cosine similarity, and includes them in the LLM prompt
- D. Trains a separate LLM on the database and uses it to answer, ignoring the general LLM

Answer: C

Explanation:

In Oracle 23ai's RAG framework, vector similarity search (A) encodes a user question and database chunks into vectors (e.g., via VECTOR_EMBEDDING), computes similarity (e.g., cosine via VECTOR_DISTANCE), and retrieves the most relevant chunks. These are then included in the LLM prompt, augmenting its response with context. Training a separate LLM (B) is not RAG; RAG uses existing models. Keyword search (C) is traditional, not vector-based, and less semantic. Clustering and random selection (D) lacks precision and isn't RAG's approach. Oracle's documentation describes this encode-search-augment process as RAG's core mechanism.

NEW QUESTION # 35

What is the purpose of the Vector Pool in Oracle Database 23ai?

- A. To store HNSW vector indexes and IVF index metadata
- B. To manage database partitioning
- C. To enable longer SQL execution
- D. To store non-vector data types

Answer: A

Explanation:

The Vector Pool in Oracle 23ai is a dedicated SGA memory region (controlled by VECTOR_MEMORY_SIZE) for vector operations, specifically storing HNSW indexes (graph structures) and IVF index metadata (e.g., centroids) (B). This optimizes memory usage for vector search, keeping critical index data accessible for fast queries. Partitioning (A) is unrelated; that's a tablespace feature. Longer SQL execution (C) might benefit indirectly from memory efficiency, but it's not the purpose. Non-vector data (D) resides elsewhere (e.g., PGA, buffer cache). Oracle allocates the Vector Pool to enhance AI workloads, ensuring indexes don't compete with other memory, a design choice reflecting vector search's growing importance.

NEW QUESTION # 36

What is the correct order of steps for building a RAG application using PL/SQL in Oracle Database 23ai?

- A. Vectorize Question, Load ONNX Model, Load Document, Split Text into Chunks, Create Embeddings, Perform Vector Search, Generate Output
- B. Load ONNX Model, Vectorize Question, Load Document, Split Text into Chunks, Create Embeddings, Perform Vector Search, Generate Output
- C. Load Document, Load ONNX Model, Split Text into Chunks, Create Embeddings, Vectorize Question, Perform Vector Search, Generate Output
- **D. Load Document, Split Text into Chunks, Load ONNX Model, Create Embeddings, Vectorize Question, Perform Vector Search, Generate Output**

Answer: D

Explanation:

Building a RAG application in Oracle 23ai using PL/SQL follows a logical sequence: (1) Load Document (e.g., via SQL*Loader) into the database; (2) Split Text into Chunks (e.g., DBMS_VECTOR_CHAIN.UTL_TO_CHUNKS) to manage token limits; (3) Load ONNX Model (e.g., via DBMS_VECTOR) for embedding generation; (4) Create Embeddings (e.g., UTL_TO_EMBEDDINGS) for the chunks; (5) Vectorize Question (using the same model) when a query is received; (6) Perform Vector Search (e.g., VECTOR_DISTANCE) to find relevant chunks; (7) Generate Output (e.g., via DBMS_AI with an LLM). Option B matches this flow. A starts with the model prematurely. C prioritizes the question incorrectly. D is close but loads the model too early. Oracle's RAG workflow documentation outlines this document-first approach.

NEW QUESTION # 37

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