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Oracle AI Vector Search Professional Sample Questions (Q61-Q66):

NEW QUESTION # 61
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. Trains a separate LLM on the database and uses it to answer, ignoring the general LLM
- C. Converts the question to keywords, searches for matches, and inserts the text into the response
- D. Encodes the question and database chunks into vectors, finds the most similar using cosine similarity, and includes them in the LLM prompt

Answer: D

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 # 62
Which SQL statement correctly adds a VECTOR column named "v" with 4 dimensions and FLOAT32 format to an existing table named "my_table"?

- A. ALTER TABLE my_table ADD (v VECTOR(4, FLOAT32))
- B. ALTER TABLE my_table ADD v VECTOR(4, FLOAT32)
- C. ALTER TABLE my_table MODIFY (v VECTOR(4, FLOAT32))
- D. UPDATE my_table SET v = VECTOR(4, FLOAT32)

Answer: A

Explanation:
To add a new column to an existing table, Oracle uses the ALTER TABLE statement with the ADD clause. Option B, ALTER TABLE my_table ADD (v VECTOR(4, FLOAT32)), correctly specifies the column name "v", the VECTOR type, and its attributes (4 dimensions, FLOAT32 precision) within parentheses, aligning with Oracle's DDL syntax for VECTOR columns. Option A uses MODIFY, which alters existing columns, not adds new ones, making it incorrect here. Option C uses UPDATE, a DML statement for updating data, not a DDL operation for schema changes. Option D omits parentheses around the VECTOR specification, which is syntactically invalid as Oracle requires dimensions and format to be enclosed. The SQL Language Reference confirms this syntax for adding VECTOR columns.

NEW QUESTION # 63
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 # 64

Which vector index available in Oracle Database 23ai is known for its speed and accuracy, making it a preferred choice for vector search?

- A. Binary Tree (BT) index
- B. Inverted File System (IFS) index
- C. Hierarchical Navigable Small World (HNSW) index
- D. Inverted File (IVF) index

Answer: C

Explanation:
Oracle 23ai supports two main vector indexes: IVF and HNSW. HNSW (D) is renowned for its speed and accuracy, using a hierarchical graph to connect vectors, enabling fast ANN searches with high recall-ideal for latency-sensitive applications like real-time RAG. IVF (C) partitions vectors for scalability but often requires tuning (e.g., NEIGHBOR_PARTITIONS) to match HNSW's accuracy, trading off recall for memory efficiency. BT (A) isn't a 23ai vector index; it's a generic term unrelated here. IFS (B) seems a typo for IVF; no such index exists. HNSW's graph structure outperforms IVF in small-to-medium datasets or where precision matters, as Oracle's documentation and benchmarks highlight, making it a go-to for balanced performance.

NEW QUESTION # 65

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 # 66

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