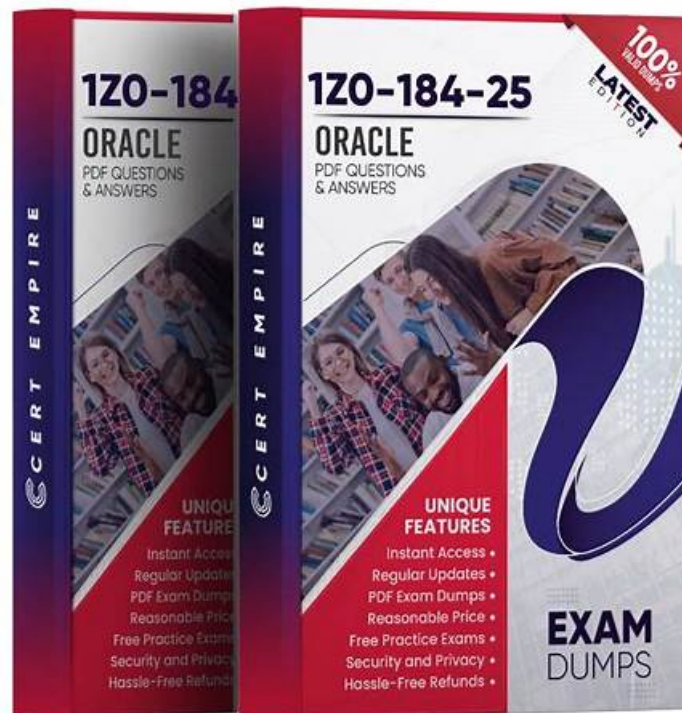


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Oracle 1Z0-184-25 Exam Syllabus Topics:

Topic	Details
Topic 1	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 2	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.
Topic 3	- 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 4	• 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.
Topic 5	• 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.

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Oracle AI Vector Search Professional Sample Questions (Q60-Q65):

NEW QUESTION # 60

Why would you choose to NOT define a specific size for the VECTOR column during development?

- A. It restricts the database to a single embedding model
- B. It limits the length of text that can be vectorized
- **C. Different external embedding models produce vectors with varying dimensions and data types**
- D. It impacts the accuracy of similarity searches

Answer: C

Explanation:

In Oracle Database 23ai, a VECTOR column can be defined with a specific size (e.g., VECTOR(512, FLOAT32)) or left unspecified (e.g., VECTOR). Not defining a size (D) provides flexibility during development because different embedding models (e.g., BERT, SentenceTransformer) generate vectors with varying dimensions (e.g., 768, 384) and data types (e.g., FLOAT32, INT8). This avoids locking the schema into one model, allowing experimentation. Accuracy (A) isn't directly impacted by size definition; it depends on the model and metric. A fixed size doesn't restrict the database to one model (B) but requires matching dimensions. Text length (C) affects tokenization, not vector dimensions. Oracle's documentation supports undefined VECTOR columns for flexibility in AI workflows.

NEW QUESTION # 61

In the following Python code, what is the significance of prepending the source filename to each text chunk before storing it in the vector database?

```
bash
CollapseWrapCopy
docs = [{"text": filename + "|" + section, "path": filename} for filename, sections in faqs.items() for section in sections]
# Sample the resulting data
docs[:2]
```

- **A. It preserves context and aids in the retrieval process by associating each vectorized chunk with its original source file**
- B. It helps differentiate between chunks from different files but has no impact on vectorization
- C. It improves the accuracy of the LLM by providing additional training data
- D. It speeds up the vectorization process by providing a unique identifier for each chunk

Answer: A

Explanation:

Prepending the filename to each text chunk (e.g., filename + "|" + section) in the Python code (A) preserves contextual metadata, linking each chunk-and its resulting vector-to its source file. This aids retrieval in RAG applications by allowing the application to trace back to the original document, enhancing response context (e.g., "from Book1"). While it differentiates chunks (B), its impact goes beyond identification, affecting retrieval usability. It doesn't speed up vectorization (C); embedding models process text regardless of prefixes. It also doesn't train the LLM (D); it's metadata for retrieval, not training data. Oracle's RAG examples emphasize metadata preservation for context-aware responses.

NEW QUESTION # 62

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

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

Answer: C

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 # 63

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

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

Answer: D

NEW QUESTION # 64

What happens when querying with an IVF index if you increase the value of the NEIGHBOR_PARTITIONS probes parameter?

- A. More partitions are probed, improving accuracy, but also increasing query latency
- B. Index creation time is reduced
- C. The number of centroids decreases
- D. Accuracy decreases

Answer: A

Explanation:

The NEIGHBOR_PARTITIONS parameter in Oracle 23ai's IVF index controls how many partitions are probed during a query. Increasing this value examines more clusters, raising the probability of finding relevant vectors, thus improving accuracy (recall). However, this increases computational effort, leading to higher query latency-a classic ANN trade-off. The number of centroids (A) is fixed during index creation and unaffected by query parameters. Accuracy does not decrease (B); it improves. Index creation time (C) is unrelated to query-time settings. Oracle's documentation on IVF confirms that NEIGHBOR_PARTITIONS directly governs this accuracy-latency balance.

NEW QUESTION # 65

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