

Mock 1Z0-184-25 Exam Reliable IT Certifications | 1Z0-184-25: Oracle AI Vector Search Professional



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Oracle 1Z0-184-25 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• 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 2	<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 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 PL • SQL and Python to integrate AI models with retrieval techniques for enhanced AI-driven decision-making.
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Oracle AI Vector Search Professional Sample Questions (Q42-Q47):

NEW QUESTION # 42

In Oracle Database 23ai, which data type is used to store vector embeddings for similarity search?

- A. VECTOR2
- **B. VECTOR**
- C. VARCHAR2
- D. BLOB

Answer: B

Explanation:

Oracle Database 23ai introduces the VECTOR data type (C) specifically for storing vector embeddings used in similarity search, supporting dimensions and formats (e.g., FLOAT32, INT8). VECTOR2 (A) doesn't exist. BLOB (B) can store binary data, including vectors, but lacks the semantic structure and indexing support of VECTOR. VARCHAR2 (D) is for text, not numerical arrays. VECTOR is optimized for AI vector search with native indexing (e.g., HNSW, IVF), as per Oracle's documentation.

NEW QUESTION # 43

What is the primary function of AI Smart Scan in Exadata System Software 24ai?

- A. To provide real-time monitoring and diagnostics for AI applications
- **B. To accelerate AI workloads by leveraging Exadata RDMA Memory (XRMEM), Exadata Smart Cache, and on-storage processing**
- C. To automatically optimize database queries for improved performance

Answer: B

Explanation:

AI Smart Scan in Exadata System Software 24ai (B) accelerates AI workloads, including vector search, by offloading processing to storage servers using Exadata's RDMA Memory (XRMEM), Smart Cache, and on-storage capabilities. This enhances performance for large-scale vector operations. Real-time monitoring (A) isn't its focus; that's for management tools. Query optimization (C) is a general Exadata feature (Smart Scan), but AI Smart Scan specifically targets AI tasks. Oracle's 24ai documentation emphasizes its role in speeding up AI computations.

NEW QUESTION # 44

Which function is used to generate vector embeddings within an Oracle database?

- A. DBMS_VECTOR_CHAIN.UTL_TO_CHUNKS
- B. DBMS_VECTOR_CHAIN.UTL_TO_TEXT
- C. DBMS_VECTOR_CHAIN.UTL_TO_GENERATE_TEXT
- **D. DBMS_VECTOR_CHAIN.UTL_TO_EMBEDDINGS**

Answer: D

Explanation:

In Oracle 23ai, the DBMS_VECTOR_CHAIN package provides utilities for vector workflows. UTL_TO_EMBEDDINGS (C) generates vector embeddings from text within the database, typically using an ONNX model, supporting RAG and search applications. UTL_TO_CHUNKS (A) splits text, not generates embeddings. UTL_TO_TEXT (B) converts documents to text, a preprocessing step. UTL_TO_GENERATE_TEXT (D) doesn't exist; text generation is handled by LLMs, not this package. Oracle's documentation identifies UTL_TO_EMBEDDINGS as the embedding creation function in PL/SQL workflows.

NEW QUESTION # 45

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

Answer: B

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 # 46

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. Adding a new VECTOR column to the table
- C. Dropping an existing VECTOR column from the table
- D. Creating a new table using CTAS (CREATE TABLE AS SELECT) that includes the VECTOR column from the original 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 # 47

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