

Free PDF 1Z0-184-25 - Oracle AI Vector Search Professional–Reliable Sure Pass



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Oracle 1Z0-184-25 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<ul style="list-style-type: none">• 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 4	<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.

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While attempting the exam, take heed of the clock ticking, so that you manage the Oracle 1Z0-184-25 Questions in a time-efficient way. Even if you are completely sure of the correct answer to a question, first eliminate the incorrect ones, so that you may prevent blunders due to human error.

Oracle AI Vector Search Professional Sample Questions (Q21-Q26):

NEW QUESTION # 21

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

Answer: C

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 # 22

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

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

Answer: B

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 # 23

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 # 24

An application needs to fetch the top-3 matching sentences from a dataset of books while ensuring a balance between speed and accuracy. Which query structure should you use?

- A. Exact similarity search with Euclidean distance
- **B. Approximate similarity search with the VECTOR_DISTANCE function**
- C. Multivector similarity search with approximate fetching and target accuracy
- D. A combination of relational filters and similarity search

Answer: B

Explanation:

Fetching the top-3 matching sentences requires a similarity search, and balancing speed and accuracy points to approximate nearest neighbor (ANN) techniques. Option A-approximate similarity search with VECTOR_DISTANCE-uses an index (e.g., HNSW, IVF) to quickly find near-matches, ordered by distance (e.g., SELECT sentence, VECTOR_DISTANCE(vector, :query_vector, COSINE) AS score FROM books ORDER BY score FETCH APPROXIMATE 3 ROWS ONLY). The APPROXIMATE clause leverages indexing for speed, with tunable accuracy (e.g., TARGET_ACCURACY), ideal for large datasets where exactness is traded for performance.

Option B (exact search with Euclidean) scans all vectors without indexing, ensuring 100% accuracy but sacrificing speed-impractical for big datasets. Option C ("multivector" search) isn't a standard Oracle 23ai construct; it might imply multiple vectors per row, but lacks clarity and isn't optimal here. Option D (relational filters plus similarity) adds WHERE clauses (e.g., WHERE genre = 'fiction'), useful for scoping but not specified as needed, and doesn't inherently balance speed-accuracy without ANN. Oracle's ANN support in 23ai, via HNSW or IVF with VECTOR_DISTANCE, makes A the practical choice, aligning with real-world RAG use cases where response time matters as much as relevance.

NEW QUESTION # 25

A machine learning team is using IVF indexes in Oracle Database 23ai to find similar images in a large dataset. During testing, they observe that the search results are often incomplete, missing relevant images. They suspect the issue lies in the number of partitions probed. How should they improve the search accuracy?

- **A. Add the TARGET_ACCURACY clause to the query with a higher value for the accuracy**
- B. Increase the VECTOR_MEMORY_SIZE initialization parameter
- C. Change the index type to HNSW for better accuracy
- D. Re-create the index with a higher EFCONSTRUCTION value

Answer: A

Explanation:

IVF (Inverted File) indexes in Oracle 23ai partition vectors into clusters, probing a subset during queries for efficiency. Incomplete results suggest insufficient partitions are probed, reducing recall. The TARGET_ACCURACY clause (A) allows users to specify a desired accuracy percentage (e.g., 90%), dynamically increasing the number of probed partitions to meet this target, thus improving accuracy at the cost of latency. Switching to HNSW (B) offers higher accuracy but requires re-indexing and may not be necessary if IVF tuning suffices. Increasing VECTOR_MEMORY_SIZE (C) allocates more memory for vector operations but doesn't directly affect probe count. EFCONSTRUCTION (D) is an HNSW parameter, irrelevant to IVF. Oracle's IVF documentation highlights TARGET_ACCURACY as the recommended tuning mechanism.

NEW QUESTION # 26

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