

# Pass Guaranteed Quiz 2026 Oracle 1Z0-184-25: Oracle AI Vector Search Professional Accurate Exam Dumps Collection



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## Oracle 1Z0-184-25 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>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</li><li>SQL and Python to integrate AI models with retrieval techniques for enhanced AI-driven decision-making.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>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.</li></ul>

Topic 4	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>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.</li> </ul>

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## Reliable 1Z0-184-25 Test Objectives | High 1Z0-184-25 Quality

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### Oracle AI Vector Search Professional Sample Questions (Q24-Q29):

#### NEW QUESTION # 24

In Oracle Database 23ai, which SQL function calculates the distance between two vectors using the Euclidean metric?

- A. L1\_DISTANCE
- B. L2\_DISTANCE
- C. COSINE\_DISTANCE
- D. HAMMING\_DISTANCE

**Answer: B**

Explanation:

In Oracle Database 23ai, vector distance calculations are primarily handled by the VECTOR\_DISTANCE function, which supports multiple metrics (e.g., COSINE, EUCLIDEAN) specified as parameters (e.g., VECTOR\_DISTANCE(v1, v2, EUCLIDEAN)). However, the question implies distinct functions, a common convention in some databases or libraries, and Oracle's documentation aligns L2\_DISTANCE (B) with the Euclidean metric. L2 (Euclidean) distance is the straight-line distance between two points in vector space, computed as  $\sqrt{\sum (x_i - y_i)^2}$ , where  $x_i$  and  $y_i$  are vector components. For example, for vectors [1, 2] and [4, 6], L2 distance is  $\sqrt{((1-4)^2 + (2-6)^2)} = \sqrt{9 + 16} = 5$ .

Option A, L1\_DISTANCE, represents Manhattan distance ( $\sum |x_i - y_i|$ ), summing absolute differences-not Euclidean. Option C, HAMMING\_DISTANCE, counts differing bits, suited for binary vectors (e.g., INT8), not continuous Euclidean spaces typically used with FLOAT32 embeddings. Option D, COSINE\_DISTANCE (1 - cosine similarity), measures angular separation, distinct from Euclidean's magnitude-inclusive approach. While VECTOR\_DISTANCE is the general function in 23ai, L2\_DISTANCE may be an alias or a contextual shorthand in some Oracle AI examples, reflecting Euclidean's prominence in geometric similarity tasks. Misinterpreting this could lead to choosing COSINE for spatial tasks where magnitude matters, skewing results. Oracle's vector search framework supports Euclidean via VECTOR\_DISTANCE, but B aligns with the question's phrasing.

#### NEW QUESTION # 25

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 improves the accuracy of the LLM by providing additional training data

- C. It preserves context and aids in the retrieval process by associating each vectorized chunk with its original source file
- D. It speeds up the vectorization process by providing a unique identifier for each chunk

**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 # 26

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

**Answer: B**

#### NEW QUESTION # 27

What is a key advantage of using GoldenGate 23ai for managing and distributing vector data for AI applications?

- A. Built-in version control for vector data
- B. Specialized vector embedding compression
- C. Real-time vector data updates across locations
- D. Automatic translation of vector embeddings between formats

**Answer: C**

Explanation:

Oracle GoldenGate 23ai is a real-time data replication and integration tool, extended in 23ai to handle the VECTOR data type for AI applications. Its key advantage (A) is enabling real-time updates of vector data across distributed locations-e.g., replicating VECTOR columns from a primary database in New York to a secondary in London with sub-second latency. This ensures AI models (e.g., for similarity search or RAG) access the latest embeddings as source data (e.g., documents) changes, critical for dynamic environments like customer support systems where new queries demand current context. Imagine a VECTOR column storing embeddings of support tickets; GoldenGate keeps these synchronized across regions, minimizing staleness that could degrade AI responses.

Option B (automatic translation) is fictional; GoldenGate doesn't convert vector formats (e.g., FLOAT32 to INT8)-that's a model or application task. Option C (compression) isn't a GoldenGate feature; compression might occur at the storage layer, but GoldenGate focuses on replication fidelity, not size reduction. Option D (version control) misaligns with GoldenGate's purpose; it ensures data consistency, not historical versioning like Git. Real-time replication (A) stands out, as Oracle's documentation emphasizes GoldenGate's role in keeping vector-driven AI applications globally consistent, a game-changer for distributed AI deployments where latency or inconsistency could disrupt user trust. Without this, static exports (e.g., Data Pump) would lag, undermining real-time AI use cases.

#### NEW QUESTION # 28

When using SQL\*Loader to load vector data for search applications, what is a critical consideration regarding the formatting of the vector data within the input CSV file?

- A. As FVEC is a binary format and the vector dimensions have a known width, fixed offsets can be used to make parsing the vectors fast and efficient
- B. Rely on SQL\*Loader's automatic normalization of vector data
- C. Enclose vector components in curly braces ({} )

- D. Use sparse format for vector data

**Answer: C**

Explanation:

SQLLoader in Oracle 23ai supports loading VECTOR data from CSV files, requiring vectors to be formatted as text. A critical consideration is enclosing components in curly braces (A), e.g., {1.2, 3.4, 5.6}, to match the VECTOR type's expected syntax (parsed into FLOAT32, etc.). FVEC (B) is a binary format, not compatible with CSV text input; SQLLoader expects readable text, not fixed offsets. Sparse format (C) isn't supported for VECTOR columns, which require dense arrays. SQLLoader doesn't normalize vectors automatically (D); formatting must be explicit. Oracle's documentation specifies curly braces for CSV-loaded vectors.

## NEW QUESTION # 29

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