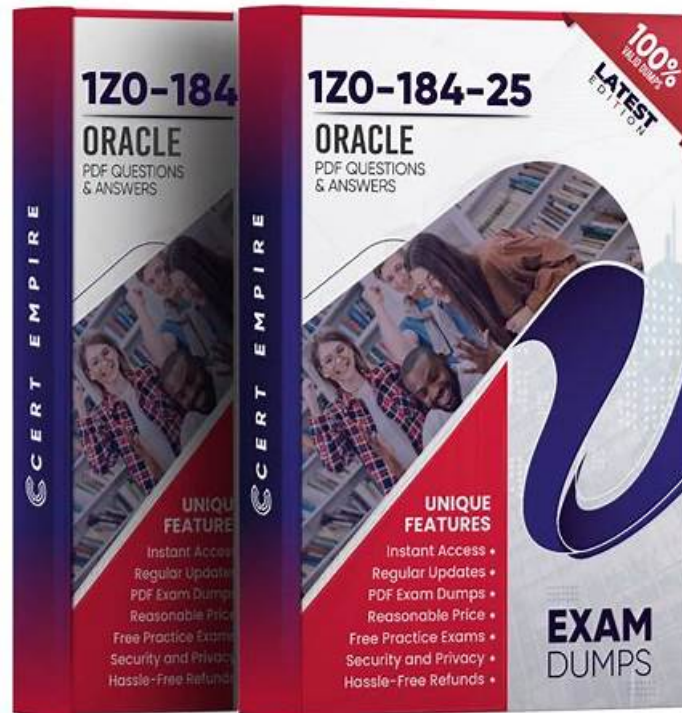


# Oracle 1Z0-184-25 Exam Dumps - A Surefire Way To Achieve Success



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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>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 3	<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>
Topic 4	<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 5	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
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### Oracle AI Vector Search Professional Sample Questions (Q49-Q54):

#### NEW QUESTION # 49

What is the advantage of using Euclidean Squared Distance rather than Euclidean Distance in similarity search queries?

- A. It is simpler and faster because it avoids square-root calculations
- B. It guarantees higher accuracy than Euclidean Distance
- C. It supports hierarchical partitioning of vectors
- D. It is the default distance metric for Oracle AI Vector Search

**Answer: A**

Explanation:

Euclidean Squared Distance (L2-squared) skips the square-root step of Euclidean Distance (L2), i.e.,  $\sum (x_i - y_i)^2$  vs.  $\sqrt{\sum (x_i - y_i)^2}$ . Since the square root is monotonic, ranking order remains identical, but avoiding it (C) reduces computational cost, making queries faster-crucial for large-scale vector search. It's not the default metric (A); cosine is often default in Oracle 23ai. It doesn't relate to partitioning (B), an indexing feature. Accuracy (D) is equivalent, as rankings are preserved. Oracle's documentation notes L2-squared as an optimization for performance.

#### NEW QUESTION # 50

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

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

**Answer: C**

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 # 51

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

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

**Answer: A**

#### NEW QUESTION # 52

What is the primary purpose of the VECTOR\_EMBEDDING function in Oracle Database 23ai?

- **A. To generate a single vector embedding for data**
- B. To serialize vectors into a string
- C. To calculate vector dimensions
- D. To calculate vector distances

**Answer: A**

#### NEW QUESTION # 53

What is the default distance metric used by the VECTOR\_DISTANCE function if none is specified?

- A. Euclidean
- B. Hamming
- C. Manhattan
- **D. Cosine**

**Answer: D**

Explanation:

The VECTOR\_DISTANCE function in Oracle 23ai computes vector distances, and if no metric is specified (e.g., VECTOR\_DISTANCE(v1, v2)), it defaults to Cosine (C). Cosine distance (1 - cosine similarity) is widely used for text embeddings due to its focus on angular separation, ignoring magnitude-fitting for normalized vectors from models like BERT. Euclidean (A) measures straight-line distance, not default. Hamming (B) is for binary vectors, rare in 23ai's FLOAT32 context. Manhattan (D) sums absolute differences, less common for embeddings. Oracle's choice of Cosine reflects its AI focus, as documentation confirms, aligning with industry norms for semantic similarity-vital for users assuming defaults in queries.

#### NEW QUESTION # 54

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