

# Latest Updated Reliable 1Z0-184-25 Dumps - Oracle 1Z0-184-25 Latest Dumps Sheet: 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"> <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 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>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 4	<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 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>

## 1Z0-184-25 Latest Dumps Sheet - Complete 1Z0-184-25 Exam Dumps

Passing an Oracle AI Vector Search Professional exam on the first attempt can be stressful, but Oracle 1Z0-184-25 exam questions can help manage stress and allow you to perform at your best. We at Rea4Prep give you the techniques and resources to make sure you get the most out of your exam study. We provide preparation material for the Oracle AI Vector Search Professional exam that will guide you when you sit to study for it. 1Z0-184-25 updated questions give you enough confidence to sit for the Oracle exam.

### Oracle AI Vector Search Professional Sample Questions (Q47-Q52):

#### NEW QUESTION # 47

Which is NOT a feature or capability related to AI and Vector Search in Exadata?

- A. AI Smart Scan
- **B. Native Support for Vector Search Only within the Database Server**
- C. Vector Replication with GoldenGate
- D. Loading Vector Data using SQL\*Loader

**Answer: B**

Explanation:

Exadata in Oracle Database 23ai enhances AI and vector search capabilities. Vector Replication with GoldenGate (B) supports real-time vector data distribution. SQL\*Loader (C) loads vector data into VECTOR columns. AI Smart Scan (D) accelerates AI workloads using Exadata's storage optimizations. However, "Native Support for Vector Search Only within the Database Server" (A) is not a feature; vector search is natively supported across Exadata's architecture, leveraging both database and storage layers (e.g., via Smart Scan), not restricted to the server alone. This option misrepresents Exadata's distributed capabilities, making it the correct "NOT" answer.

#### NEW QUESTION # 48

You want to quickly retrieve the top-10 matches for a query vector from a dataset of billions of vectors, prioritizing speed over exact accuracy. What is the best approach?

- A. Relational filtering combined with an exact search
- B. Exact similarity search using flat search
- C. Exact similarity search with a high target accuracy setting
- **D. Approximate similarity search with a low target accuracy setting**

**Answer: D**

Explanation:

For speed over accuracy with billions of vectors, approximate similarity search (ANN) with a low target accuracy setting (B) (e.g., 70%) uses indexes like HNSW or IVF, probing fewer vectors to return top-10 matches quickly. Exact flat search (A) scans all vectors, too slow for billions. Relational filtering with exact search (C) adds overhead without speed gains. Exact search with high accuracy (D) maximizes precision but sacrifices speed. Oracle's documentation recommends ANN for large-scale, speed-focused queries.

#### NEW QUESTION # 49

What is the purpose of the VECTOR\_DISTANCE function in Oracle Database 23ai similarity search?

- A. To group vectors by their exact scores
- B. To fetch rows that match exact vector embeddings
- **C. To calculate the distance between vectors using a specified metric**
- D. To create vector indexes for efficient searches

**Answer: C**

Explanation:

The VECTOR\_DISTANCE function in Oracle 23ai (D) computes the distance between two vectors using a specified metric (e.g., COSINE, EUCLIDEAN), enabling similarity search by quantifying proximity. It doesn't fetch exact matches (A); it measures similarity. Index creation (B) is handled by CREATE INDEX, not this function. Grouping (C) requires additional SQL (e.g.,

GROUP BY), not VECTOR\_DISTANCE's role. Oracle's SQL reference defines it as the core tool for distance calculation in vector queries.

### NEW QUESTION # 50

You need to prioritize accuracy over speed in a similarity search for a dataset of images. Which should you use?

- A. Approximate similarity search with HNSW indexing and target accuracy of 70%
- B. Multivector similarity search with partitioning
- C. Exact similarity search using a full table scan
- D. Approximate similarity search with IVF indexing and target accuracy of 70%

**Answer: C**

Explanation:

To prioritize accuracy over speed, exact similarity search with a full table scan (C) computes distances between the query vector and all stored vectors, guaranteeing 100% recall without approximation trade-offs. HNSW with 70% target accuracy (A) and IVF with 70% (D) are approximate methods, sacrificing accuracy for speed via indexing (e.g., probing fewer neighbors). Multivector search (B) isn't a standard Oracle 23ai term; partitioning aids scale, not accuracy. Exact search, though slower, ensures maximum accuracy, as per Oracle's vector search options.

### NEW QUESTION # 51

What is the significance of using local ONNX models for embedding within the database?

- A. Improved accuracy compared to external models
- B. Enhanced security because data remains within the database
- C. Support for legacy SQL\*Plus clients
- D. Reduced embedding dimensions for faster processing

**Answer: B**

Explanation:

Using local ONNX (Open Neural Network Exchange) models for embedding within Oracle Database 23ai means loading pre-trained models (e.g., via DBMS\_VECTOR) into the database to generate vectors internally, rather than relying on external APIs or services. The primary significance is enhanced security (D): sensitive data (e.g., proprietary documents) never leaves the database, avoiding exposure to external networks or third-party providers. This aligns with enterprise needs for data privacy and compliance (e.g., GDPR), as the embedding process—say, converting "confidential report" to a vector—occurs within Oracle's secure environment, leveraging its encryption and access controls.

Option A (SQLPlus support) is irrelevant; ONNX integration is about AI functionality, not legacy client compatibility—SQLPlus can query vectors regardless. Option B (improved accuracy) is misleading; accuracy depends on the model's training, not its location—local vs. external models could be identical (e.g., same BERT variant). Option C (reduced dimensions) is a misconception; dimensionality is model-defined (e.g., 768 for BERT), not altered by locality—processing speed might improve due to reduced latency, but that's secondary. Security is the standout benefit, as Oracle's documentation emphasizes in-database processing to minimize data egress risks, a critical consideration for RAG or Select AI workflows where private data fuels LLMs. Without this, external calls could leak context, undermining trust in AI applications.

### NEW QUESTION # 52

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