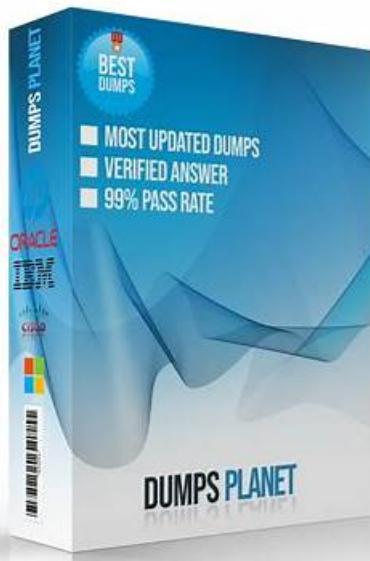


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## Oracle 1Z0-184-25 Exam Syllabus Topics:

Topic	Details
Topic 1	<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>

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>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 4	<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 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>

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

### NEW QUESTION # 21

You are working with vector search in Oracle Database 23ai and need to ensure the integrity of your vector data during storage and retrieval. Which factor is crucial for maintaining the accuracy and reliability of your vector search results?

- A. Regularly updating vector embeddings to reflect changes in the source data
- B. Using the same embedding model for both vector creation and similarity search**
- C. The specific distance algorithm employed for vector comparisons
- D. The physical storage location of the vector data

### Answer: B

Explanation:

In Oracle Database 23ai, vector search accuracy hinges on the consistency of the embedding model. The VECTOR data type stores embeddings as fixed-dimensional arrays, and similarity searches (e.g., using VECTOR\_DISTANCE) assume that all vectors stored and query-are generated by the same model. This ensures they occupy the same semantic space, making distance calculations meaningful. Regular updates (B) maintain data freshness, but if the model changes, integrity is compromised unless all embeddings are regenerated consistently. The distance algorithm (C) (e.g., cosine, Euclidean) defines how similarity is measured but relies on consistent embeddings; an incorrect model mismatch undermines any algorithm. Physical storage location (D) affects performance, not integrity. Oracle's documentation stresses model consistency as a prerequisite for reliable vector search within its native capabilities.

### NEW QUESTION # 22

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

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

### Answer: C

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

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

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

**Answer: A**

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 # 24

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

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

**Answer: D**

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 # 25

What is the purpose of the Vector Pool in Oracle Database 23ai?

- A. To store non-vector data types
- B. To enable longer SQL execution
- C. To store HNSW vector indexes and IVF index metadata

- D. To manage database partitioning

**Answer: C**

Explanation:

The Vector Pool in Oracle 23ai is a dedicated SGA memory region (controlled by VECTOR\_MEMORY\_SIZE) for vector operations, specifically storing HNSW indexes (graph structures) and IVF index metadata (e.g., centroids) (B). This optimizes memory usage for vector search, keeping critical index data accessible for fast queries. Partitioning (A) is unrelated; that's a tablespace feature. Longer SQL execution (C) might benefit indirectly from memory efficiency, but it's not the purpose. Non-vector data (D) resides elsewhere (e.g., PGA, buffer cache). Oracle allocates the Vector Pool to enhance AI workloads, ensuring indexes don't compete with other memory, a design choice reflecting vector search's growing importance.

**NEW QUESTION # 26**

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