

# 2025 Oracle 1Z0-184-25 Realistic Valid Test Answers



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## 100% Pass Quiz 2025 Oracle 1Z0-184-25: High-quality Valid Oracle AI Vector Search Professional Test Answers

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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>                                                                          |
|         |                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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>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 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>   |

## Oracle AI Vector Search Professional Sample Questions (Q25-Q30):

### NEW QUESTION # 25

Why would you choose to NOT define a specific size for the VECTOR column during development?

- A. It limits the length of text that can be vectorized
- B. It restricts the database to a single embedding model
- C. Different external embedding models produce vectors with varying dimensions and data types
- D. It impacts the accuracy of similarity searches

**Answer: C**

Explanation:

In Oracle Database 23ai, a VECTOR column can be defined with a specific size (e.g., VECTOR(512, FLOAT32)) or left unspecified (e.g., VECTOR). Not defining a size (D) provides flexibility during development because different embedding models (e.g., BERT, SentenceTransformer) generate vectors with varying dimensions (e.g., 768, 384) and data types (e.g., FLOAT32, INT8). This avoids locking the schema into one model, allowing experimentation. Accuracy (A) isn't directly impacted by size definition; it depends on the model and metric. A fixed size doesn't restrict the database to one model (B) but requires matching dimensions. Text length (C) affects tokenization, not vector dimensions. Oracle's documentation supports undefined VECTOR columns for flexibility in AI workflows.

### NEW QUESTION # 26

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

- A. Support for legacy SQL\*Plus clients
- B. Enhanced security because data remains within the database
- C. Improved accuracy compared to external models
- 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 # 27

When generating vector embeddings outside the database, what is the most suitable option for storing the embeddings for later use?

- **A. In a dedicated vector database**
- B. In the database as BLOB (Binary Large Object) data
- C. In a binary FVEC file with the relational data in a CSV file
- D. In a CSV file

**Answer: A**

Explanation:

When vector embeddings are generated outside the database, the storage choice must balance efficiency, scalability, and usability for similarity search. A CSV file (A) is simple and human-readable but inefficient for large-scale vector operations due to text parsing overhead and lack of indexing support. A binary FVEC file (B) offers a compact format for vectors, reducing storage size and improving read performance, but separating relational data into a CSV complicates integration and querying, making it suboptimal for unified workflows. Storing embeddings as BLOBs in a relational database (C) integrates well with structured data and supports SQL access, but it lacks the specialized indexing (e.g., HNSW, IVF) and query optimizations that dedicated vector databases provide. A dedicated vector database (D), such as Milvus or Pinecone (or Oracle 23ai's vector capabilities if internal), is purpose-built for high-dimensional vectors, offering efficient storage, advanced indexing, and fast approximate nearest neighbor (ANN) searches. For external generation scenarios, where embeddings are not immediately integrated into Oracle 23ai, a dedicated vector database is the most suitable due to its performance and scalability advantages. Oracle's AI Vector Search documentation indirectly supports this by emphasizing optimized vector storage for search efficiency, though it focuses on in-database solutions.

#### NEW QUESTION # 28

What is the correct order of steps for building a RAG application using PL/SQL in Oracle Database 23ai?

- A. Load Document, Load ONNX Model, Split Text into Chunks, Create Embeddings, Vectorize Question, Perform Vector Search, Generate Output
- B. Vectorize Question, Load ONNX Model, Load Document, Split Text into Chunks, Create Embeddings, Perform Vector Search, Generate Output
- C. Load ONNX Model, Vectorize Question, Load Document, Split Text into Chunks, Create Embeddings, Perform Vector Search, Generate Output
- **D. Load Document, Split Text into Chunks, Load ONNX Model, Create Embeddings, Vectorize Question, Perform Vector Search, Generate Output**

**Answer: D**

Explanation:

Building a RAG application in Oracle 23ai using PL/SQL follows a logical sequence: (1) Load Document (e.g., via SQL\*Loader) into the database; (2) Split Text into Chunks (e.g., DBMS\_VECTOR\_CHAIN.UTL\_TO\_CHUNKS) to manage token limits; (3) Load ONNX Model (e.g., via DBMS\_VECTOR) for embedding generation; (4) Create Embeddings (e.g., UTL\_TO\_EMBEDDINGS) for the chunks; (5) Vectorize Question (using the same model) when a query is received; (6) Perform Vector Search (e.g., VECTOR\_DISTANCE) to find relevant chunks; (7) Generate Output (e.g., via DBMS\_AI with an LLM). Option B matches this flow. A starts with the model prematurely. C prioritizes the question incorrectly. D is close but loads the model too early. Oracle's RAG workflow documentation outlines this document-first approach.

#### NEW QUESTION # 29

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

**Answer: D**

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 # 30

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