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## Quiz 2025 Oracle Perfect 1Z0-184-25: Exam Oracle AI Vector Search Professional Actual Tests

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

| Topic   | Details                                                                                                                                                                                                                                                                                                                                                                                |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topic 1 | <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 2 | <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 3 | <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 (Q29-Q34):

### NEW QUESTION # 29

Which DDL operation is NOT permitted on a table containing a VECTOR column in Oracle Database 23ai?

- A. Dropping an existing VECTOR column from the table
- B. Adding a new VECTOR column to the table
- C. Modifying the data type of an existing VECTOR column to a non-VECTOR type
- D. Creating a new table using CTAS (CREATE TABLE AS SELECT) that includes the VECTOR column from the original table

**Answer: C**

Explanation:

Oracle Database 23ai imposes restrictions on DDL operations for tables with VECTOR columns to preserve data integrity. CTAS (A) is permitted, as it copies the VECTOR column intact into a new table, maintaining its structure. Dropping a VECTOR column (B) is allowed via ALTER TABLE DROP COLUMN, as it simply removes the column without altering its type. Adding a new VECTOR column (D) is supported with ALTER TABLE ADD, enabling schema evolution. However, modifying an existing VECTOR column's data type to a non-VECTOR type (C) (e.g., VARCHAR2, NUMBER) is not permitted because VECTOR is a specialized type with dimensional and format constraints (e.g., FLOAT32), and Oracle does not support direct type conversion due to potential loss of semantic meaning and structure. This restriction is documented in Oracle's SQL reference.

### NEW QUESTION # 30

What is the first step in setting up the practice environment for Select AI?

- A. Drop any compartment that does not use OCI Generative AI
- B. Optionally create an OCI compartment
- C. Create a new user account with elevated privileges
- D. Create a policy to enable access to OCI Generative AI

**Answer: B**

Explanation:

Select AI in Oracle Database 23ai enables natural language queries by integrating with OCI Generative AI services. The first step in setting up the practice environment is to optionally create an OCI compartment (A), which organizes and isolates resources in Oracle Cloud Infrastructure (OCI). This is foundational because subsequent steps-like defining policies or configuring the Autonomous Database-depend on a compartment structure, though an existing compartment can be reused, making it optional. Creating a policy (B) is a subsequent step to grant access to OCIGenerative AI, requiring a compartment first. Dropping compartments (C) is irrelevant and disruptive. Creating a user account (D) is not specified as the initial step in Select AI setup. Oracle's Select AI documentation lists compartment setup as the starting point in OCI configuration.

### NEW QUESTION # 31

An application needs to fetch the top-3 matching sentences from a dataset of books while ensuring a balance between speed and accuracy. Which query structure should you use?

- A. Multivector similarity search with approximate fetching and target accuracy
- B. Exact similarity search with Euclidean distance

- C. A combination of relational filters and similarity search
- **D. Approximate similarity search with the VECTOR\_DISTANCE function**

**Answer: D**

Explanation:

Fetching the top-3 matching sentences requires a similarity search, and balancing speed and accuracy points to approximate nearest neighbor (ANN) techniques. Option A-approximate similarity search with VECTOR\_DISTANCE-uses an index (e.g., HNSW, IVF) to quickly find near-matches, ordered by distance (e.g., SELECT sentence, VECTOR\_DISTANCE(vector, :query\_vector, COSINE) AS score FROM books ORDER BY score FETCH APPROXIMATE 3 ROWS ONLY). The APPROXIMATE clause leverages indexing for speed, with tunable accuracy (e.g., TARGET\_ACCURACY), ideal for large datasets where exactness is traded for performance.

Option B (exact search with Euclidean) scans all vectors without indexing, ensuring 100% accuracy but sacrificing speed-impractical for big datasets. Option C ("multivector" search) isn't a standard Oracle 23ai construct; it might imply multiple vectors per row, but lacks clarity and isn't optimal here. Option D (relational filters plus similarity) adds WHERE clauses (e.g., WHERE genre = 'fiction'), useful for scoping but not specified as needed, and doesn't inherently balance speed-accuracy without ANN. Oracle's ANN support in 23ai, via HNSW or IVF with VECTOR\_DISTANCE, makes A the practical choice, aligning with real-world RAG use cases where response time matters as much as relevance.

### NEW QUESTION # 32

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

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

**Answer: A**

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 # 33

A machine learning team is using IVF indexes in Oracle Database 23ai to find similar images in a large dataset. During testing, they observe that the search results are often incomplete, missing relevant images. They suspect the issue lies in the number of partitions probed. How should they improve the search accuracy?

- A. Re-create the index with a higher EFCONSTRUCTION value
- **B. Add the TARGET\_ACCURACY clause to the query with a higher value for the accuracy**
- C. Change the index type to HNSW for better accuracy
- D. Increase the VECTOR\_MEMORY\_SIZE initialization parameter

**Answer: B**

Explanation:

IVF (Inverted File) indexes in Oracle 23ai partition vectors into clusters, probing a subset during queries for efficiency. Incomplete results suggest insufficient partitions are probed, reducing recall. The TARGET\_ACCURACY clause (A) allows users to specify a desired accuracy percentage (e.g., 90%), dynamically increasing the number of probed partitions to meet this target, thus improving accuracy at the cost of latency. Switching to HNSW (B) offers higher accuracy but requires re-indexing and may not be necessary if IVF tuning suffices. Increasing VECTOR\_MEMORY\_SIZE (C) allocates more memory for vector operations but doesn't directly affect probe count. EFCONSTRUCTION (D) is an HNSW parameter, irrelevant to IVF. Oracle's IVF documentation highlights TARGET\_ACCURACY as the recommended tuning mechanism.

## NEW QUESTION # 34

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