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The Oracle AI Vector Search Professional (1Z0-184-25) mock exams will allow you to prepare for the 1Z0-184-25 exam in a smarter and faster way. You can improve your understanding of the 1Z0-184-25 exam objectives and concepts with the easy-to-understand and actual 1Z0-184-25 Exam Questions offered by ValidExam. ValidExam makes the 1Z0-184-25 Practice Questions affordable for everyone and allows you to find all the information you need to polish your skills to be completely ready to clear the 1Z0-184-25 exam on the first attempt.

## 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>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 3 | <ul style="list-style-type: none"> <li>• <b>Understand Vector Fundamentals:</b> 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 4 | <ul style="list-style-type: none"> <li>• <b>Performing Similarity Search:</b> 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> |

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### Oracle AI Vector Search Professional Sample Questions (Q11-Q16):

#### NEW QUESTION # 11

Which Python library is used to vectorize text chunks and the user's question in the following example?

```
import oracledb
connection = oracledb.connect(user=un, password=pw, dsn=ds)
table_name = "Page"
with connection.cursor() as cursor:
    create_table_sql = f"""
    CREATE TABLE IF NOT EXISTS {table_name} (
    id NUMBER PRIMARY KEY,
    payload CLOB CHECK (payload IS JSON),
    vector VECTOR
    )"""
    try:
        cursor.execute(create_table_sql)
    except oracledb.DatabaseError as e:
        raise
connection.autocommit = True
from sentence_transformers import SentenceTransformer
encoder = SentenceTransformer('all-MiniLM-L12-v2')
```

- A. oracledb
- **B. sentence\_transformers**
- C. json
- D. oci

**Answer: B**

Explanation:

In the provided Python code, the `sentence_transformers` library (A) is imported and used to instantiate a `SentenceTransformer` object with the 'all-MiniLM-L12-v2' model. This library is designed to vectorize text (e.g., chunks and questions) into embeddings, a common step in RAG applications. The `oracledb` library (C) handles database connectivity, not vectorization. `oci` (B) is for OCI service interaction, not text embedding. `json` (D) processes JSON data, not vectors. The code explicitly uses `sentence_transformers` for vectorization, consistent with Oracle's examples for external embedding integration.

#### NEW QUESTION # 12

Which vector index available in Oracle Database 23ai is known for its speed and accuracy, making it a preferred choice for vector search?

- A. Inverted File (IVF) index
- **B. Hierarchical Navigable Small World (HNSW) index**
- C. Binary Tree (BT) index
- D. Inverted File System (IFS) index

**Answer: B**

Explanation:

Oracle 23ai supports two main vector indexes: IVF and HNSW. HNSW (D) is renowned for its speed and accuracy, using a hierarchical graph to connect vectors, enabling fast ANN searches with high recall-ideal for latency-sensitive applications like real-time RAG. IVF (C) partitions vectors for scalability but often requires tuning (e.g., NEIGHBOR\_PARTITIONS) to match HNSW's accuracy, trading off recall for memory efficiency. BT (A) isn't a 23ai vector index; it's a generic term unrelated here. IFS (B) seems a typo for IVF; no such index exists. HNSW's graph structure outperforms IVF in small-to-medium datasets or where precision matters, as Oracle's documentation and benchmarks highlight, making it a go-to for balanced performance.

### NEW QUESTION # 13

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

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

**Answer: D**

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 # 14

You are tasked with creating a table to store vector embeddings with the following characteristics: Each vector must have exactly 512 dimensions, and the dimensions should be stored as 32-bit floating point numbers. Which SQL statement should you use?

- A. CREATE TABLE vectors (id NUMBER, embedding VECTOR)
- **B. CREATE TABLE vectors (id NUMBER, embedding VECTOR(512, FLOAT32))**
- C. CREATE TABLE vectors (id NUMBER, embedding VECTOR(512))
- D. CREATE TABLE vectors (id NUMBER, embedding VECTOR(\*, INT8))

**Answer: B**

Explanation:

In Oracle 23ai, the VECTOR data type can specify dimensions and precision. CREATE TABLE vectors (id NUMBER, embedding VECTOR(512, FLOAT32)) (D) defines a column with exactly 512 dimensions and FLOAT32 (32-bit float) format, meeting both requirements. Option A omits the format (defaults vary), risking mismatch. Option B is unspecified, allowing variable dimensions-not "exactly 512." Option C uses INT8, not FLOAT32, and '\*' denotes undefined dimensions. Oracle's SQL reference confirms this syntax for precise VECTOR definitions.

### NEW QUESTION # 15

You are tasked with finding the closest matching sentences across books, where each book has multiple paragraphs and sentences.

Which SQL structure should you use?

- **A. A nested query with ORDER BY**
- B. GROUP BY with vector operations
- C. FETCH PARTITIONS BY clause
- D. Exact similarity search with a single query vector

**Answer: A**

Explanation:

Finding the closest matching sentences across books involves comparing a query vector to sentence vectors stored in a table (e.g., columns: book\_id, sentence, vector). A nested query with ORDER BY (A) is the optimal SQL structure: an inner query computes distances (e.g., SELECT sentence, VECTOR\_DISTANCE(vector, :query\_vector, COSINE) AS score FROM sentences), and the outer query sorts and limits results (e.g., SELECT \* FROM (inner\_query) ORDER BY score FETCH FIRST 5 ROWS ONLY).

This ranks sentences by similarity, leveraging Oracle's vector capabilities efficiently, especially with an index.

Option B (exact search) describes a technique, not a structure, and a full scan is slow without indexing-lacking specificity here.

Option C (GROUP BY) aggregates (e.g., by book), not ranks individual sentences, missing the "closest" goal. Option D (FETCH PARTITIONS BY) isn't a valid clause; it might confuse with IVF partitioning, but that's index-related, not query syntax. The nested structure allows flexibility (e.g., adding WHERE clauses) and aligns with Oracle's vector search examples, ensuring both correctness and scalability-crucial when books yield thousands of sentences.

## NEW QUESTION # 16

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