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## Oracle 1Z0-184-25 Reliable Practice Materials & New 1Z0-184-25 Exam Guide

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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>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>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 4	<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 5	<ul style="list-style-type: none"> <li>• <b>Using Vector Indexes:</b> 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>

## Oracle AI Vector Search Professional Sample Questions (Q37-Q42):

### NEW QUESTION # 37

What happens when querying with an IVF index if you increase the value of the NEIGHBOR\_PARTITIONS probes parameter?

- A. The number of centroids decreases
- **B. More partitions are probed, improving accuracy, but also increasing query latency**
- C. Index creation time is reduced
- D. Accuracy decreases

**Answer: B**

Explanation:

The NEIGHBOR\_PARTITIONS parameter in Oracle 23ai's IVF index controls how many partitions are probed during a query. Increasing this value examines more clusters, raising the probability of finding relevant vectors, thus improving accuracy (recall). However, this increases computational effort, leading to higher query latency—a classic ANN trade-off. The number of centroids (A) is fixed during index creation and unaffected by query parameters. Accuracy does not decrease (B); it improves. Index creation time (C) is unrelated to query-time settings. Oracle's documentation on IVF confirms that NEIGHBOR\_PARTITIONS directly governs this accuracy-latency balance.

### NEW QUESTION # 38

What is the function of the COSINE parameter in the SQL query used to retrieve similar vectors?

topk = 3

```
sql = f'''select payload, vector_distance(vector, :vector, COSINE) as score from {table_name} order by score fetch approximate {topk} rows only'''
```

- A. It converts the vectors to a format compatible with the SQL database
- B. It specifies the type of vector encoding used in the database
- C. It filters out vectors with a cosine similarity below a certain threshold
- **D. It indicates that the cosine distance metric should be used to measure similarity between vectors**

**Answer: D**

Explanation:

In Oracle Database 23ai, the VECTOR\_DISTANCE function calculates the distance between two vectors using a specified metric. The COSINE parameter in the query (vector\_distance(vector, :vector, COSINE)) instructs the database to use the cosine distance metric (C) to measure similarity. Cosine distance, defined as 1 - cosine similarity, is ideal for high-dimensional vectors (e.g., text embeddings) as it focuses on angular separation rather than magnitude. It doesn't filter vectors (A); filtering requires additional conditions (e.g., WHERE clause). It doesn't convert vector formats (B); vectors are already in the VECTOR type. It also doesn't specify encoding (D), which is defined during vector creation (e.g., FLOAT32). Oracle's documentation confirms COSINE as one of the supported metrics for similarity search.

### NEW QUESTION # 39

What is the primary difference between the HNSW and IVF vector indexes in Oracle Database 23ai?

- A. HNSW guarantees accuracy, whereas IVF sacrifices performance for accuracy
- B. Both operate identically but differ in memory usage

- C. HNSW is partition-based, whereas IVF uses neighbor graphs for indexing
- D. HNSW uses an in-memory neighbor graph for faster approximate searches, whereas IVF uses the buffer cache with partitions

**Answer: D**

#### NEW QUESTION # 40

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

**Answer: D**

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 # 41

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 # 42

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