

Valid 1Z0-184-25 Test Forum–Latest updated Latest Test Cost Provider for 1Z0-184-25: Oracle AI Vector Search Professional



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Oracle 1Z0-184-25 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">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.
Topic 2	<ul style="list-style-type: none">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.
Topic 3	<ul style="list-style-type: none">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.

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Oracle AI Vector Search Professional Sample Questions (Q59-Q64):

NEW QUESTION # 59

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. Add the `TARGET_ACCURACY` clause to the query with a higher value for the accuracy
- B. Re-create the index with a higher `EFCONSTRUCTION` value
- C. Change the index type to HNSW for better accuracy
- D. Increase the `VECTOR_MEMORY_SIZE` initialization parameter

Answer: A

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 # 60

Which Oracle Cloud Infrastructure (OCI) service is directly integrated with Select AI?

- A. OCI Generative AI
- B. OCI Vision
- C. OCI Language
- D. OCI Data Science

Answer: A

Explanation:

Select AI in Oracle Database 23ai integrates with OCI Generative AI (B) to process natural language queries and generate context-aware responses using large language models (LLMs). OCI Language (A) focuses on text analysis (e.g., sentiment, entity recognition), not generative tasks. OCI Vision (C) handles image processing, unrelated to Select AI's text-based functionality. OCI Data Science (D) supports model development, not direct integration with Select AI. Oracle's documentation explicitly names OCI Generative AI as the integrated service for Select AI's LLM capabilities.

NEW QUESTION # 61

Which function should you use to determine the storage format of a vector?

- A. `VECTOR_DIMENSION_FORMAT`
- B. `VECTOR_EMBEDDING`
- C. `VECTOR_CHUNKS`
- D. `VECTOR_NORM`

Answer: A

NEW QUESTION # 62

What happens when querying with an IVF index if you increase the value of the `NEIGHBOR_PARTITIONS` probes parameter?

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

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 # 63

How is the security interaction between Autonomous Database and OCI Generative AI managed in the context of Select AI?

- A. By requiring users to manually enter their OCI API keys each time they execute a natural language query
- **B. By utilizing Resource Principals, which grant the Autonomous Database instance access to OCI Generative AI without exposing sensitive credentials**
- C. By establishing a secure VPN tunnel between the Autonomous Database and OCI Generative AI service
- D. By encrypting all communication between the Autonomous Database and OCI Generative AI using TLS/SSL protocols

Answer: B

Explanation:

In Oracle Database 23ai's Select AI, security between the Autonomous Database and OCI Generative AI is managed using Resource Principals (B). This mechanism allows the database instance to authenticate itself to OCI services without hardcoding credentials, enhancing security by avoiding exposure of sensitive keys. TLS/SSL encryption (A) is used for data-in-transit security, but it's a complementary layer, not the primary management method. A VPN tunnel (C) is unnecessary within OCI's secure infrastructure and not specified for Select AI. Manual API key entry (D) is impractical and insecure for automated database interactions. Oracle's documentation on Select AI highlights Resource Principals as the secure, scalable authentication method.

NEW QUESTION # 64

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