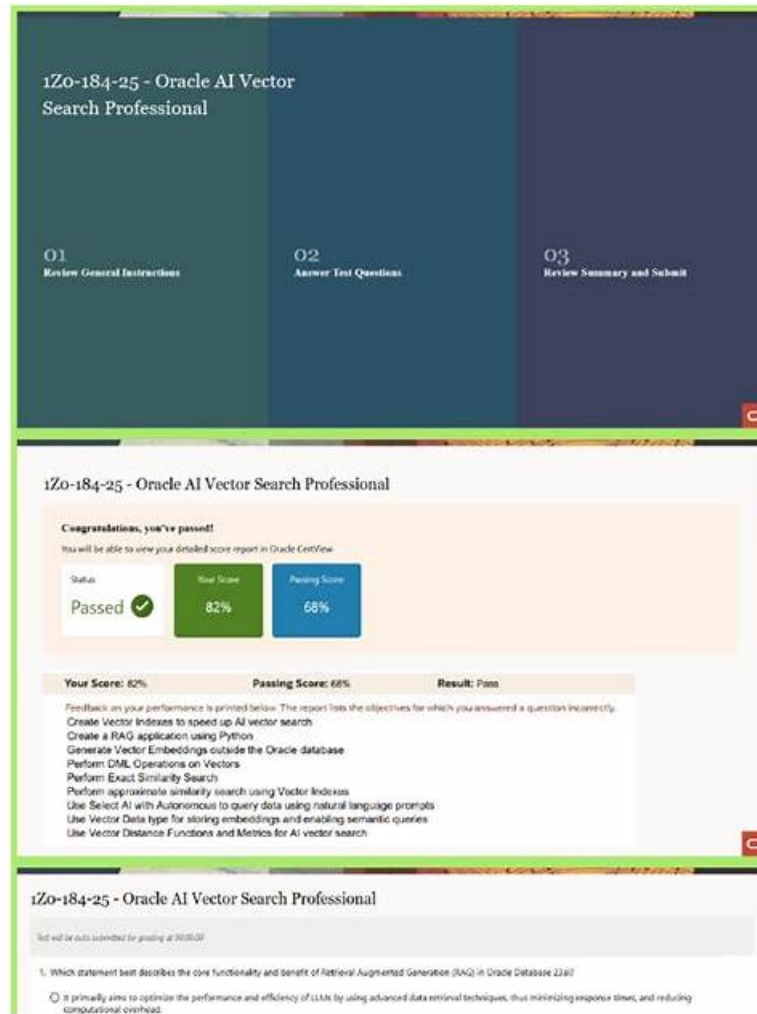


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enhance knowledge which is helpful to pass Oracle AI Vector Search Professional (1Z0-184-25) on the first attempt.

Oracle 1Z0-184-25 Exam Syllabus Topics:

Topic	Details
Topic 1	- 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 - SQL and Python to integrate AI models with retrieval techniques for enhanced AI-driven decision-making.
Topic 2	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	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.
Topic 4	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.

Oracle AI Vector Search Professional Sample Questions (Q29-Q34):

NEW QUESTION # 29

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 establishing a secure VPN tunnel between the Autonomous Database and OCI Generative AI service
- C. By utilizing Resource Principals, which grant the Autonomous Database instance access to OCI Generative AI without exposing sensitive credentials
- D. By encrypting all communication between the Autonomous Database and OCI Generative AI using TLS/SSL protocols

Answer: C

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 # 30

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 # 31

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(*, INT8))
- **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)

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 # 32

Which parameter is used to define the number of closest vector candidates considered during HNSW index creation?

- A. VECTOR_MEMORY_SIZE
- **B. EFCONSTRUCTION**
- C. TARGET_ACCURACY
- D. NEIGHBOURS

Answer: B

Explanation:

In Oracle 23ai, EFCONSTRUCTION (A) controls the number of closest vector candidates (edges) considered during HNSW index construction, affecting the graph's connectivity and search quality. Higher values improve accuracy but increase build time. VECTOR_MEMORY_SIZE (B) sets memory allocation, not candidate count. NEIGHBOURS (C) isn't a parameter; it might confuse with NEIGHBOR_PARTITIONS (IVF). TARGET_ACCURACY (D) adjusts query-time accuracy, not index creation. Oracle's HNSW documentation specifies EFCONSTRUCTION for this purpose.

NEW QUESTION # 33

Which statement best describes the capability of Oracle Data Pump for handling vector data in the context of vector search applications?

- **A. Data Pump provides native support for exporting and importing tables containing vector data types, facilitating the transfer of vector data for vector search applications**
- B. Because of the complexity of vector data, Data Pump requires a specialized plug-in to handle the export and import operations involving vector data types
- C. Data Pump treats vector embeddings as regular text strings, which can lead to data corruption or loss of precision when transferring vector data for vector search
- D. Data Pump only exports and imports vector data if the vector embeddings are stored as BLOB (Binary Large Object) data types in the database

Answer: A

Explanation:

Oracle Data Pump in 23ai natively supports the VECTOR data type (C), allowing export and import of tables with vector columns

without conversion or plug-ins. This facilitates vector search application migrations, preserving dimensional and format integrity (e.g., FLOAT32). BLOB storage (A) isn't required; VECTOR is a distinct type. Data Pump doesn't treat vectors as text (B), avoiding corruption; it handles them as structured arrays. No specialized plug-in (D) is needed; native support is built-in. Oracle's Data Pump documentation confirms seamless handling of VECTOR data.

NEW QUESTION # 34

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