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Oracle 1Z0-184-25 Exam Syllabus Topics:

Topic	Details

Topic 1	• 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 2	• 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.
Topic 3	• 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 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 (Q12-Q17):

NEW QUESTION # 12
What is created to facilitate the use of OCI Generative AI with Autonomous Database?

- A. An AI profile for OCI Generative AI
- B. A secure VPN tunnel
- C. A dedicated OCI compartment
- D. A new user account with elevated privileges

Answer: A

Explanation:
To integrate OCI Generative AI with Autonomous Database in Oracle 23ai (e.g., for Select AI), an AI profile (A) is created within the database using DBMS_AI. This profile configures the connection to OCI Generative AI, specifying the LLM and authentication (e.g., Resource Principals). A compartment (B) organizes OCI resources but isn't "created" specifically for this integration; it's a prerequisite. A new user account (C) or VPN tunnel (D) isn't required; security leverages existing mechanisms. Oracle's Select AI setup documentation highlights the AI profile as the key facilitator.

NEW QUESTION # 13
Which Oracle Cloud Infrastructure (OCI) service is directly integrated with Select AI?

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

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 # 14

What is a key characteristic of HNSW vector indexes?

- A. They are hierarchical with multilayered connections
- B. They require exact match for searches
- C. They use hash-based clustering
- D. They are disk-based structures

Answer: A

Explanation:
HNSW (Hierarchical Navigable Small World) indexes in Oracle 23ai (A) are characterized by a hierarchical structure with multilayered connections, enabling efficient approximate nearest neighbor (ANN) searches. This graph-based approach connects vectors across levels, balancing speed and accuracy. They don't require exact matches (B); they're designed for approximate searches. They're memory-optimized, not solely disk-based (C), though persisted to disk. Hash-based clustering (D) relates to other methods (e.g., LSH), not HNSW. Oracle's documentation highlights HNSW's hierarchical nature as key to its performance.

NEW QUESTION # 15
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. Change the index type to HNSW for better accuracy
- B. Re-create the index with a higher EFCONSTRUCTION value
- C. Increase the VECTOR_MEMORY_SIZE initialization parameter
- D. Add the TARGET_ACCURACY clause to the query with a higher value for the accuracy

Answer: D

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 # 16
Which SQL function is used to create a vector embedding for a given text string in Oracle Database 23ai?

- A. GENERATE_EMBEDDING
- B. EMBED_TEXT
- C. CREATE_VECTOR_EMBEDDING
- D. VECTOR_EMBEDDING

Answer: D

Explanation:
The VECTOR_EMBEDDING function in Oracle Database 23ai generates a vector embedding from input data (e.g., a text string) using a specified model, such as an ONNX model loaded into the database. It's designed for in-database embedding creation, supporting vector search and AI applications. Options A, B, and C (GENERATE_EMBEDDING, CREATE_VECTOR_EMBEDDING, EMBED_TEXT) are not valid SQL functions in 23ai. VECTOR_EMBEDDING integrates seamlessly with the VECTOR data type and is documented as the standard method for embedding generation in SQL queries.

NEW QUESTION # 17
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are very useful for pinpointing areas that require more effort. You can lower your anxiety level and boost your confidence by taking our 1Z0-184-25 Practice Tests. Only Windows computers support the desktop practice exam software. The web-based Oracle AI Vector Search Professional (1Z0-184-25) practice test is functional on all operating systems.

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