

Oracle AI Vector Search Professional 1Z0-184-25 Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

This is a sample study guide. To access the full version with hundreds of questions,

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Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

How to Use This Guide

This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:

1. Start with a Diagnostic Review

Skim through the questions to get a sense of what you know and what you need to focus on. Don't worry about getting everything right, your goal is to identify knowledge gaps early.

2. Study in Short, Focused Sessions

Break your study time into manageable blocks (e.g. 30 - 45 minutes). Review a handful of questions, reflect on the explanations, and take breaks to retain information better.

3. Learn from the Explanations

After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.

4. Track Your Progress

Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.

5. Simulate the Real Exam

Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.

6. Repeat and Review

Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning.

7. Use Other Tools

Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.

There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly — adapt the tips above to fit your pace and learning style. You've got this!

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Questions

- 1. Which SQL structure is best to find closest matching sentences across books with multiple paragraphs and sentences?**
 - A. GROUP BY with vector operations**
 - B. FETCH PARTITIONS BY clause**
 - C. A nested query with ORDER BY**
 - D. Exact similarity search with a single query vector**
- 2. What is the significance of the term "representative sampling" in data preparation?**
 - A. To create a biased dataset**
 - B. To maintain a representative subset that accurately reflects the entire dataset**
 - C. To randomly select data with no pattern**
 - D. To increase the size of the dataset artificially**
- 3. What is the correct order of steps for building a RAG application using PL/SQL in Oracle Database 23ai?**
 - A. Load Document, Load ONNX Model, Create Embeddings, Perform Vector Search**
 - B. Load Document, Load ONNX Model, Split Text, Generate Output**
 - C. Load Document, Load ONNX Model, Split Text, Create Embeddings, Perform Vector Search**
 - D. Load Document, Load ONNX Model, Create Embeddings, Generate Output**
- 4. Which type of problem is specifically addressed by Nearest Neighbor Search in Oracle AI?**
 - A. Linear regression problems**
 - B. Classification problems only**
 - C. Similarity search problems**
 - D. Data encryption issues**

5. Which PL/SQL function converts documents such as PDF, DOC, JSON, XML, or HTML to plain text?
- A. DBMS VECTOR.TEXT_TO_PLAIN
 - B. DBMS VECTOR_CHAIN. UTL_TO_TEXT
 - C. DBMS VECTOR_CHAIN.UTIL_TO_CHUNKS
 - D. DBMS VECTOR.CONVERT_TO_TEXT
6. Which SQL function is used to create a vector embedding for a given text string in Oracle Database 23ai?
- A. GENERATE EMBEDDING
 - B. CREATE VECTOR_EMBEDDING
 - C. EMBED_TEXT
 - D. VECTOR_EMBEDDING
7. Which SQL command should a database administrator use to change the VECTOR MEMORY SIZE parameter for a pluggable database (PDB)?
- A. ALTER SYSTEM SET vector memory size=1G SCOPE=BOTH;
 - B. ALTER DATABASE SET vector_memory_size=1G SCOPE=VECTOR;
 - C. ALTER SYSTEM SET vector_memory_size=1G SCOPE=SGA;
 - D. ALTER SYSTEM RESET vector_memory_size;
8. How does indexing affect recall in vector searches?
- A. Poor indexing enhances recall
 - B. Good indexing can improve recall by ensuring relevant items are retrieved
 - C. Indexes have no impact on recall
 - D. Indexing solely focuses on speed
9. What type of machine learning models are often used for generating vector embeddings?
- A. Linear regression models
 - B. Decision trees
 - C. Neural networks, particularly those using architectures like transformers or CNNs
 - D. Support vector machines

10. What is the purpose of the VECTOR_DISTANCE function in Oracle Database 23ai similarity search?

- A. To fetch rows that match exact vector embeddings**
- B. To create vector indexes for efficient searches**
- C. To group vectors by their exact scores**
- D. To calculate the distance between vectors using a specified metric**

Answers

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1. B
2. B
3. C
4. C
5. B
6. D
7. A
8. B
9. C
10. D

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Explanations

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1. Which SQL structure is best to find closest matching sentences across books with multiple paragraphs and sentences?

A. GROUP BY with vector operations

B. FETCH PARTITIONS BY clause

C. A nested query with ORDER BY

D. Exact similarity search with a single query vector

The best SQL structure to find closest matching sentences across books with multiple paragraphs and sentences would be the use of exact similarity search with a single query vector. This approach is particularly effective for vector-based searches, where semantic meanings and contexts are assessed based on vector representations. By employing exact similarity search with a single query vector, you can utilize the inherent properties of the vectors representing sentences to compute the distance or similarity between them accurately. This method ensures you are comparing the query sentence directly against all other sentence vectors in an efficient manner to identify the closest matches. It provides a straightforward and focused approach for this type of search, which is crucial in natural language processing and AI applications. The other options, like the FETCH PARTITIONS BY clause or GROUP BY with vector operations, generally do not directly facilitate what you need for comparing similarity among sentences. Moreover, nested queries with ORDER BY may not be optimal either, as they could complicate the retrieval process when you're trying to find the nearest neighbors in terms of semantic similarity. A single query vector allows for a more streamlined and effective search for sentence closeness, capitalizing on the advantages of vector embeddings.

2. What is the significance of the term "representative sampling" in data preparation?

A. To create a biased dataset

B. To maintain a representative subset that accurately reflects the entire dataset

C. To randomly select data with no pattern

D. To increase the size of the dataset artificially

The significance of "representative sampling" in data preparation lies in its goal to ensure that the subset of data selected for analysis or modeling accurately reflects the characteristics and diversity of the entire dataset. This is crucial because a representative sample allows for valid inferences about the larger population from which the sample is drawn. When the sample mirrors important attributes such as distribution, patterns, and variances of the full dataset, it increases the reliability of the results derived from analysis or predictions made using that sample. By maintaining a representative subset, analysts can mitigate potential biases that might arise from over-representing or under-representing certain groups within the data. This facilitates more accurate modeling and better generalization to new, unseen data, which is essential for building robust machine learning models or conducting statistical analyses. Thus, the integrity of the findings rests on the quality and representativeness of the sample used in the data preparation stage.

- 3. What is the correct order of steps for building a RAG application using PL/SQL in Oracle Database 23ai?**
- A. Load Document, Load ONNX Model, Create Embeddings, Perform Vector Search**
 - B. Load Document, Load ONNX Model, Split Text, Generate Output**
 - C. Load Document, Load ONNX Model, Split Text, Create Embeddings, Perform Vector Search**
 - D. Load Document, Load ONNX Model, Create Embeddings, Generate Output**

Building a Retrieval-Augmented Generation (RAG) application using PL/SQL in Oracle Database 23ai involves several crucial steps that are executed in a specific sequence to ensure the application functions correctly. The correct sequence begins with loading the document, which is essential as it serves as the source material from which the application will draw information. Following that, loading the ONNX model is vital; this model enables the application to perform machine learning tasks by leveraging pre-trained models for efficient inference. Once the document and the model are in place, the next step is to split the text. This process involves breaking down the loaded document into manageable segments that can be processed more easily. This is an important step for optimizing the creation of embeddings, as smaller chunks of text can lead to more accurate representations of the information. After the text is split, the creation of embeddings is performed. This stage is crucial as embeddings transform the textual data into a vector format that can be used for similarity searches. With embeddings generated, the application can then proceed to perform vector searches, allowing it to retrieve relevant information based on user queries. This logical progression—loading the document, loading the model, splitting text, creating embeddings, and finally performing vector searches—ensures that the RAG

- 4. Which type of problem is specifically addressed by Nearest Neighbor Search in Oracle AI?**
- A. Linear regression problems**
 - B. Classification problems only**
 - C. Similarity search problems**
 - D. Data encryption issues**

Nearest Neighbor Search in Oracle AI is specifically designed to address similarity search problems. This technique involves finding the data points that are closest to a given query point in a multi-dimensional space. It operates on the principle that similar objects are located in proximity to each other based on certain criteria. In applications such as recommendation systems, image recognition, and natural language processing, identifying similar items helps in making predictions or suggestions based on user behavior or input data. By utilizing mathematical algorithms and data structures, Nearest Neighbor Search efficiently determines the nearest points, which is critical in various AI and machine learning tasks. Other types of problems, such as linear regression and encryption issues, do not align with the core capabilities of Nearest Neighbor Search. Linear regression involves modeling the relationship between dependent and independent variables, which requires a different analytical approach. Meanwhile, data encryption focuses on securing data through cryptographic methods, which is unrelated to the concept of searching for similar items or points within a dataset. Therefore, similarity search problems are distinctly addressed by Nearest Neighbor Search, making it the correct answer.

5. Which PL/SQL function converts documents such as PDF, DOC, JSON, XML, or HTML to plain text?

- A. DBMS VECTOR.TEXT_TO_PLAIN**
- B. DBMS VECTOR_CHAIN.UTL_TO_TEXT**
- C. DBMS VECTOR_CHAIN.UTIL_TO_CHUNKS**
- D. DBMS VECTOR.CONVERT_TO_TEXT**

The function that converts various document formats like PDF, DOC, JSON, XML, or HTML to plain text is designed to facilitate the extraction of readable content from complex file formats. In this context, the DBMS VECTOR_CHAIN.UTL_TO_TEXT function is particularly relevant as it is specifically built for this purpose within the Oracle database environment. This function reliably processes different types of documents, extracts the text, and provides it in a plain text format, which is essential for further data analysis and searching. The name suggests a utility function that leverages chains of underlying processes to convert these diverse formats, catering to the versatile needs of developments in text mining, natural language processing, and search optimizations using vector technologies. While there are other functions that might perform related tasks, they do not specifically cater to the conversion of various document types to plain text as effectively. Therefore, selecting DBMS VECTOR_CHAIN.UTL_TO_TEXT highlights an understanding of using the appropriate tools designed for working with textual data derived from a wide array of formats.

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

- A. GENERATE EMBEDDING**
- B. CREATE VECTOR_EMBEDDING**
- C. EMBED_TEXT**
- D. VECTOR_EMBEDDING**

The function that is used to create a vector embedding for a given text string in Oracle Database 23ai is VECTOR_EMBEDDING. This function efficiently transforms a text string into a vector representation, which can then be used for various applications, such as similarity searches and natural language processing tasks. Creating vector embeddings is crucial in AI and machine learning, as it allows for the representation of textual data in a numerical format suitable for algorithms to process. The VECTOR_EMBEDDING function is specifically designed to handle this transformation within the Oracle Database ecosystem, enabling seamless integration into database operations. In the context of the other options, while GENERATE EMBEDDING, CREATE VECTOR_EMBEDDING, and EMBED_TEXT might seem plausible, they do not align with the specific naming conventions or functionalities established in Oracle Database 23ai for vector embeddings. Thus, VECTOR_EMBEDDING is the accurate and appropriate SQL function for creating vector embeddings from text.

7. Which SQL command should a database administrator use to change the VECTOR MEMORY SIZE parameter for a pluggable database (PDB)?

A. ALTER SYSTEM SET vector_memory_size=1G SCOPE=BOTH;

**B. ALTER DATABASE SET vector_memory_size=1G
SCOPE=VECTOR;**

C. ALTER SYSTEM SET vector_memory_size=1G SCOPE=SGA;

D. ALTER SYSTEM RESET vector_memory_size;

The command to change the VECTOR MEMORY SIZE parameter for a pluggable database (PDB) is correctly identified as needing to use the ALTER SYSTEM command. This command is intended to modify system-level parameters that affect the performance and behavior of the Oracle Database. Choosing to specify the parameter with the correct syntax is essential: "ALTER SYSTEM SET vector_memory_size=1G SCOPE=BOTH" signifies that the administrator is setting the vector memory size to 1 gigabyte, which will apply both to the current session and will be retained in the configuration for future sessions. The "SCOPE=BOTH" clause indicates that the change is immediate and should also be persistent, meaning it will remain even after the database instance is restarted, effectively ensuring that system performance can be maintained in the context of vector searches. By using this command, the administrator is directly addressing the parameters that influence vector searches effectively within the pluggable database context, which is particularly crucial for managing resources in a multi-tenant environment that a PDB represents. Thus, this choice is the most fitting in terms of properly addressing the task of adjusting the VECTOR MEMORY SIZE parameter in a way that guarantees both immediate and persistent application of the changes made.

8. How does indexing affect recall in vector searches?

A. Poor indexing enhances recall

B. Good indexing can improve recall by ensuring relevant items are retrieved

C. Indexes have no impact on recall

D. Indexing solely focuses on speed

Good indexing significantly enhances recall in vector searches by ensuring that relevant items are retrieved effectively. Recall refers to the ability of the search system to retrieve all relevant documents from the database. When a robust indexing strategy is implemented, it allows the search system to organize and categorize the information in a way that makes it easier to locate and retrieve relevant results based on the queries made. With effective indexing, the system can quickly access relevant vectors, thus minimizing the chances of missing important items during a search. This ensures that users are presented with the most pertinent results, thereby improving the overall informational retrieval process. Furthermore, good indexing optimizes the organization of data, which can substantially enhance both recall and precision in results. Other options do not accurately reflect the relationship between indexing and recall; for instance, stating that poor indexing enhances recall misrepresents the fundamental purpose of indexing, which is to improve retrieval accuracy and efficiency. Moreover, claiming that indexes have no impact on recall overlooks the essential role that indexing plays in organizing data. Similarly, the idea that indexing solely focuses on speed ignores how indexing also serves to enhance the relevancy of search results, which is crucial for recall.

9. What type of machine learning models are often used for generating vector embeddings?

A. Linear regression models

B. Decision trees

C. Neural networks, particularly those using architectures like transformers or CNNs

D. Support vector machines

Neural networks, particularly those using architectures like transformers or convolutional neural networks (CNNs), are commonly employed for generating vector embeddings due to their ability to capture complex patterns in data. These models work by transforming input data into a continuous vector space where similar data points are positioned closer together, facilitating more effective comparisons and analyses. Transformers, for instance, excel at processing sequential data such as text, allowing them to generate embeddings that represent the contextual relationships between words. This is crucial for tasks like natural language processing. CNNs, on the other hand, are particularly effective in analyzing spatial data like images, enabling them to create embeddings that capture visual features. The ability to learn hierarchical representations through multiple layers makes neural networks highly powerful for embedding generation, as they can encapsulate nuances in the data that simpler models might overlook. Their adaptability and efficiency in handling large datasets also contribute to their prevalence in generating vector embeddings for various applications, including search, recommendation systems, and more.

10. What is the purpose of the VECTOR_DISTANCE function in Oracle Database 23ai similarity search?

A. To fetch rows that match exact vector embeddings

B. To create vector indexes for efficient searches

C. To group vectors by their exact scores

D. To calculate the distance between vectors using a specified metric

The VECTOR_DISTANCE function in Oracle Database 23ai is designed specifically to calculate the distance between vectors using various specified metrics. This capability is essential for similarity search applications, where the goal is to determine how similar or different two vectors are based on their spatial relationships in a multi-dimensional space. By employing different distance metrics, such as Euclidean distance, cosine similarity, or others, users can assess proximity in a more nuanced manner. This allows for more effective querying when looking for similar items in large datasets, such as images, text, or other data forms represented as vectors. Calculating distances accurately is crucial for applications like recommendation systems, image retrieval, and natural language processing, where determining similarity plays a pivotal role in user experience and search relevance. Other choices, while related to vector operations, do not directly align with the primary purpose of the VECTOR_DISTANCE function. Fetching rows that match exact vector embeddings and creating vector indexes pertain to different aspects of vector handling and optimization in databases, while grouping vectors by their scores relates to how results may be organized post-query execution rather than the calculation of distances itself.

Next Steps

Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.

As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.

If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at hello@examzify.com.

Or visit your dedicated course page for more study tools and resources:

<https://oracleaivectorsearchpro.examzify.com>

We wish you the very best on your exam journey. You've got this!