

dbt Labs Analytics Engineer Certification Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

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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. 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.

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. 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!

Questions

- 1. During which stage does dbt compile dependencies into a graph to check for cycles?**
 - A. Run-time**
 - B. Initialization**
 - C. Graph Validation**
 - D. Execution**
- 2. How can documentation for dbt models be created?**
 - A. Using markdown files stored in the dbt directory**
 - B. In the dbt dashboard interface**
 - C. With the `description:` property in the model's YAML file**
 - D. Through comments in the SQL code**
- 3. In dbt, what is the purpose of the 'profiles.yml' file?**
 - A. To define the project structure**
 - B. To set user permissions for the database**
 - C. To configure the connection settings for different environments**
 - D. To document the project**
- 4. What language does dbt primarily use for modeling data?**
 - A. Python**
 - B. R**
 - C. SQL**
 - D. Java**
- 5. What does the dbt deps command do?**
 - A. Pulls the latest version of the dbt documentation**
 - B. Updates the dbt project configuration file**
 - C. Pulls the most recent version of dependencies from git**
 - D. Installs new packages locally**

- 6. What does the seed-paths property in dbt_project.yml specify?**
- A. Default directories for testing seeds**
 - B. Custom locations for seed files**
 - C. Directories for final output files**
 - D. The location of source files**
- 7. How do you implement version control for a dbt project?**
- A. By using local backups**
 - B. Using Git to track changes and collaborate**
 - C. By exporting models to CSV files**
 - D. Through a cloud-based storage solution**
- 8. What is the purpose of the `dbt compile` command?**
- A. To execute the SQL code within your models**
 - B. To compile dbt models into raw SQL code without executing them**
 - C. To optimize the performance of your models**
 - D. To automatically generate tests for your models**
- 9. How can you specify a materialization strategy in a dbt model?**
- A. By adding the strategy in the models directory**
 - B. Through the config block in a model file**
 - C. By adjusting the dbt project's YAML file**
 - D. Through the dbt profile settings**
- 10. How does the overrides property in source properties function?**
- A. It allows for user-defined data transformations**
 - B. It modifies a previously defined source from an included package**
 - C. It limits access to specific data sources**
 - D. It generates automated source tests**

Answers

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

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Explanations

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1. During which stage does dbt compile dependencies into a graph to check for cycles?

- A. Run-time
- B. Initialization
- C. Graph Validation**
- D. Execution

The process of compiling dependencies into a graph to check for cycles happens during the Graph Validation stage. At this stage, dbt focuses on ensuring that all models, sources, and other dependencies are accounted for and correctly defined. This involves creating a directed acyclic graph (DAG) that outlines how different components of the data project relate to one another. Graph Validation is crucial because it prevents the possibility of circular dependencies, which can lead to infinite loops or errors during execution. By identifying these cycles before the actual data processing begins, dbt can ensure that the data transformation processes will execute smoothly and efficiently. Understanding this process is essential for ensuring the integrity of the data models you work with in dbt. It ensures that all dependencies are correctly established, thus reducing the risk of errors during later stages of the dbt run.

2. How can documentation for dbt models be created?

- A. Using markdown files stored in the dbt directory
- B. In the dbt dashboard interface
- C. With the `description:` property in the model's YAML file**
- D. Through comments in the SQL code

Documentation for dbt models can effectively be created using the `description:` property in the model's YAML file. This approach allows you to provide detailed, structured documentation that is directly associated with the model, making it easy for users to access and understand the purpose and structure of the model within the dbt framework. By directly linking documentation to the model through YAML, you ensure that any changes to the model can be accompanied by relevant updates to the documentation, maintaining consistency and clarity. This method also helps in auto-generating documentation that can be viewed in the dbt documentation site, making it more user-friendly for stakeholders who may not have in-depth technical expertise. While other methods for documentation exist, such as using markdown files or comments in SQL code, the `description:` property in YAML is specifically designed for this purpose within dbt, ensuring comprehensive integration and maintainability of your documentation efforts. Using the dashboard interface is more geared towards visualizing models rather than documenting them. Therefore, the YAML approach stands out as the most effective and integrated method.

3. In dbt, what is the purpose of the 'profiles.yml' file?

- A. To define the project structure
- B. To set user permissions for the database
- C. To configure the connection settings for different environments**
- D. To document the project

The 'profiles.yml' file in dbt serves the critical role of configuring connection settings for various environments. This configuration file contains necessary details such as the target database type, the credentials needed to access the database (including username and password), and other connection parameters that allow dbt to establish a link between the dbt project and the data warehouse. By using the 'profiles.yml' file, users can set up separate profiles for different environments such as development, testing, and production. Each profile can have distinct connection settings, allowing developers to seamlessly switch between environments while working on their dbt projects without needing to hardcode credentials or settings in the project files themselves. This separation aids in maintaining security and organization within the project. The other choices, while related to aspects of a dbt project, do not accurately describe the specific function served by the 'profiles.yml' file. The project structure is defined in the project files, user permissions are often managed within the database system itself rather than through dbt, and project documentation is typically stored in separate documentation files rather than in the 'profiles.yml'.

4. What language does dbt primarily use for modeling data?

- A. Python
- B. R
- C. SQL**
- D. Java

dbt primarily uses SQL for modeling data because it is designed to transform raw data into a more analyzable format within a data warehouse. SQL is a powerful query language specifically tailored for managing and manipulating structured data, which makes it a natural fit for dbt's core functionality of modeling and transforming data. In dbt projects, models defined in SQL can include various transformation logic such as joins, aggregations, and calculations applicable to the existing datasets. These SQL models are then built and executed in the data warehouse, effectively creating a clear pathway to actionable insights. The other programming languages mentioned are not utilized as the primary language in dbt. For instance, while Python and R are popular for data analysis and statistical computing, they are not the core languages for defining data models in dbt. Java is generally used for application development and does not align with the primary focus of dbt. Therefore, understanding that dbt leverages SQL emphasizes its purpose and utility in data transformation and modeling.

5. What does the dbt deps command do?

- A. Pulls the latest version of the dbt documentation
- B. Updates the dbt project configuration file
- C. Pulls the most recent version of dependencies from git**
- D. Installs new packages locally

The dbt deps command is designed to handle dependencies within a dbt project. When you run this command, it interacts with the project's packages.yml file, which defines the external packages that the dbt project relies on. Specifically, the command retrieves the most recent versions of those dependencies from the appropriate version control repositories, such as GitHub. This functionality is crucial for ensuring that your dbt project has access to the latest features, bug fixes, and enhancements from its dependencies, which can include various data transformation libraries or packages developed by the dbt community or other contributors. By pulling the latest versions, dbt allows you to leverage improvements and new functionalities in your analytics workflows. The other options do not accurately represent the purpose of the dbt deps command. For example, pulling the latest version of the dbt documentation pertains to acquiring documentation resources rather than managing package dependencies. Updating the dbt project configuration file does not relate to managing external packages directly, and while the command may install new packages if they are specified as dependencies, its main function is to ensure you have the latest version of already-defined dependencies. Thus, the correct answer reflects the core operation of the dbt deps command.

6. What does the seed-paths property in dbt_project.yml specify?

- A. Default directories for testing seeds
- B. Custom locations for seed files**
- C. Directories for final output files
- D. The location of source files

The seed-paths property in the dbt_project.yml file specifies custom locations for seed files. In dbt, seeds are CSV files that are loaded into the database as tables. When you define seed files in your project, you might want to organize them in directories other than the default location. By using the seed-paths property, you can indicate these custom locations, allowing for better project structure and management. This capability enhances the flexibility in organizing and maintaining your dbt project, especially when dealing with a large number of seed files across various directories. Understanding how to configure seed-paths is crucial for efficient seed management within your dbt project.

7. How do you implement version control for a dbt project?

- A. By using local backups
- B. Using Git to track changes and collaborate**
- C. By exporting models to CSV files
- D. Through a cloud-based storage solution

Using Git to track changes and collaborate is the most effective way to implement version control for a dbt project. Git is a distributed version control system designed to handle everything from small to very large projects with speed and efficiency. By utilizing Git, you benefit from features such as branching and merging, which allow multiple team members to work on different aspects of the project simultaneously without interfering with each other's work. Additionally, Git keeps a detailed history of changes made to the codebase, enabling you to review, revert, or compare changes over time. This capability is especially crucial in a data transformation context, where maintaining clean, traceable, and collaborative workflows directly impacts the integrity and quality of data analyses. Other choices, such as using local backups, exporting models to CSV files, or relying on cloud-based storage solutions, may offer forms of data preservation or sharing, but they do not provide the comprehensive version control features and collaborative benefits that Git offers. Local backups do not manage version history effectively and are prone to data loss. Exporting models to CSV files can be cumbersome and does not facilitate collaborative code changes. Cloud-based storage might help in sharing files, but it lacks the version tracking and detailed change history provided by Git, making it less suitable for managing code.

8. What is the purpose of the `dbt compile` command?

- A. To execute the SQL code within your models
- B. To compile dbt models into raw SQL code without executing them**
- C. To optimize the performance of your models
- D. To automatically generate tests for your models

The purpose of the `dbt compile` command is to convert your dbt models and their respective configurations into raw SQL code without actually executing that code against your database. When you run this command, dbt processes all your models, macros, and configurations and generates the final SQL that would be sent to the database when you run the `dbt run` command. This is particularly useful for debugging, understanding the generated SQL, or verifying that your models are set up correctly according to your configurations and business logic. This command helps ensure that any issues with the SQL logic can be identified early in the development process, as developers can inspect the generated SQL and ensure it aligns with their expectations. The ability to view the compiled SQL without executing it provides a layer of safety and clarity in the data transformation process.

9. How can you specify a materialization strategy in a dbt model?

- A. By adding the strategy in the models directory
- B. Through the config block in a model file**
- C. By adjusting the dbt project's YAML file
- D. Through the dbt profile settings

To specify a materialization strategy in a dbt model, it is done through the config block in a model file. In dbt, each model can have its own configuration settings, which include the materialization strategy. This is achieved by using the `{{ config() }}` function within the model file, where you can set parameters such as `materialized`, defining whether the model should be a table, view, incremental, or ephemeral. This approach provides granular control at the model level, allowing you to define how each specific model should be built and behave. It also enhances the clarity and maintainability of your project, as all configurations related to a model are neatly encapsulated within the model file itself. Other methods mentioned involve broader configuration settings or different contexts, which do not apply directly to an individual model's materialization. The models directory is merely the location of model files and does not dictate specific behaviors. The dbt project's YAML file is used for project-wide configurations but does not customize individual model materializations. dbt profile settings are concerned with connection settings for your data warehouse and do not influence how models are materialized.

10. How does the overrides property in source properties function?

- A. It allows for user-defined data transformations
- B. It modifies a previously defined source from an included package**
- C. It limits access to specific data sources
- D. It generates automated source tests

The overrides property in the source properties is used specifically to modify a previously defined source, particularly when that source has been included from a package. This functionality is crucial in scenarios where adjustments to the source definition are needed without altering the original source specification in the package itself. For example, if your project requires different configurations or parameters for the data pulled from a predefined source in a package, the overrides property allows you to redefine aspects of that source directly in your project. This provides flexibility and accommodates changes or enhancements without impacting other projects or users utilizing the same package. In contrast, options related to user-defined transformations, limiting access, or generating automated source tests do not align with the primary purpose of the overrides property, which is distinctly focused on altering existing source definitions drawn from included packages.

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://dbtlabsanalyticsengr.examzify.com>

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