dbt-Labs

dbt-Analytics-Engineering

dbt Analytics Engineering Certification Exam

Latest Version: 6.0

Question: 1

A team member proposes directly joining multiple raw source tables into a single large model for convenience.
Which of the following is a potential long-term consequence of this approach?

A. The dbt test command might run slower due to the complex join logic.
B. Maintenance complexity increases as business logic or source tables change.
C. Your DAG might inadvertently develop circular dependencies.
D. Incremental materialization strategies would no longer be applicable.

Answer: B

Explanation:
Directly joining raw sources sacrifices modularity and flexibility. While option A is partially true, B highlights a more significant maintainability risk.

Question: 2

(Multiple Select)

A. The level of detail needed in downstream reporting.
B. The desired frequency for updating the data
C. The number of users currently active on the data warehouse.
D. Existing model patterns within the project for consistency.

Answer: A,B

Explanation:
Reporting needs and data freshness requirements directly shape model design. Consistency (D) is important, but secondary to functional requirements- The number of active users is more relevant to database sizing

Question: 3

A critical model depends on a third-party data source with periodic update delays. How could you structure your DAG to mitigate the impact of these delays on downstream reporting?

A. Employ a snapshot of the third-party source to create a historical record.
B. Utilize the 'defer' option to allow upstream models to run while awaiting the source update.
C. Configure a 'view' that gracefully handles missing data from the third-party source.

D. Set up an alert to notify users when the upstream data source is not refreshed on time.

Answer: B

Explanation:
The 'defer' option lets your DAG continue partially while awaiting the delayed data. Others offer solutions but don't address the core DAG flow issue.

Question: 4

"Isn't debugging harder with many smaller models in a DAG?" How would you address this concern expressed by a colleague?

A. "Debugging is slightly harder, but the benefits outweigh the added effort."
B. "Smaller models are easier to test individually, leading to faster issue identification."
C. "We'll rely extensively on snapshots to trace errors back to their origin."
D. "Our DAG will be simple, so debugging model dependencies won't be a concern."

Answer: B

Explanation:
Emphasize how modularity isolates problems and enables targeted testing. While the other options have some truth, option B presents the most convincing argument.

Question: 5

You're setting up a new dbt project and want to customize the naming of compiled objects in the data warehouse. Which section of the dbt_project.yml file is the most relevant?

A. seeds:
B. models:
C. snapshots:
D. vars:

Answer: B

Explanation:
The models: section, particularly the nested configurations within it, is where you control the naming of materialized models in your database.

Question: 6

(Multiple Select)

A. model-paths

B. test-paths
C. materialized: view
D. database

Answer: A,B

Explanation:
model-paths and test-paths specify project directory structures- Options C would be within a model configuration, and D could be in a profile.

Question: 7

You're working with a dbt project in both development and production environments. Which configuration technique is best suited to handle differences in database connection details between these environments?

A. Define multiple profile sections within the dbt_project.yml
B. Utilize environment variables in conjunction with the profiles.yml file.
C. Use the target flag when running dbt commands.
D. Create separate branches for each environment and maintain different dbt_project.yml files in each branch.

Answer: B

Explanation:
Environment variables and a corresponding profiles.yml provide the most flexible and secure way to manage environment-specific settings.

Question: 8

You notice a pattern where warnings are generated for several models due to missing descriptions. How could you configure dbt_project.yml to fail these models instead when descriptions are absent?

A. Add on-run-start and on-run-end hooks to perform custom checks
B. Set a project-level severity setting under the tests: section.
C. Introduce a custom macro to validate model descriptions_
D. Globally change the default warning behavior using the warn-if: configuration

Answer: D

Explanation:
The warn-if: configuration lets you escalate specific warnings to errors at the project level.

Question: 9

A downstream process relies on a critical model to be fully refreshed daily. How can you enforce this behavior using dbt_project.yml configuration?

A. Set the model's materialized property to incremental _ refresh-
B. Configure a schedule property within the models: section.
C. Apply a post-hook that triggers a full refresh of the model.
D. Update the model configuration to materialized: table and add a persist_docs: true property.

Answer: C

Explanation:
Post-hooks enable you to run operations after a model executes. The other options don't provide the required control over the refresh behavior.

Question: 10

A colleague expresses confusion about how dbt uses the dbt_project.yml file. Which of the following is the MOST accurate high-level explanation?

A. The dbt_projectyml file acts as a blueprint for how dbt should generate your data models, tests, and documentation.
B. The dbt_project yml file contains the actual SQL code that defines your data transformations.
C. The dbt_project.yml file is primarily used for version control and collaboration in dbt projects
D. The dbt_project. yml file serves as a temporary cache for in-development models.

Answer: A

Explanation:
Emphasize the configuration aspect of dbt_project.yml; it guides dbt's behavior but doesn't contain the SQL logic itself.

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