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dbt Labs dbt Analytics Engineering Certification Exam Sample Questions (Q63-Q68):

NEW QUESTION # 63

What must happen before you can build models in dbt?

Choose 1 option.

- A. Sources must have been defined in your dbt project.
- B. You must have created a service account in your data platform.
- **C. Underlying data must be accessible on your data platform.**
- D. Raw data must be cleaned.

Answer: C

Explanation:

The correct answer is C: Underlying data must be accessible on your data platform.

dbt does not perform data ingestion or data loading. Instead, dbt operates after raw data is already available in your warehouse. This means that before dbt can build any models-whether staging, intermediate, or mart- layer models-the underlying source data must already exist and be accessible in the connected data platform (Snowflake, BigQuery, Redshift, Databricks, etc.). dbt uses SQL to transform existing relations; therefore, if the data platform cannot access the underlying tables or external sources, model execution will fail.

Option A is incorrect because sources do not need to be defined before building models. Models can be built without using sources at all. Source definitions are optional metadata and lineage declarations, not prerequisites.

Option B is incorrect because service accounts are not required; dbt can connect through any credential mechanism supported by the warehouse (OAuth, user accounts, tokens, etc.).

Option D is incorrect because dbt itself performs transformations on raw data-cleaning raw data beforehand is not required; in fact, that is one of dbt's main responsibilities.

Thus, the only true prerequisite is that the warehouse must contain accessible underlying data.

NEW QUESTION # 64

28. Consider this DAG:

* model_a # model_c # model_e

* model_b # model_d # model_f

(With model_c and model_d both feeding into the final layer.)

You execute:

dbt run --fail-fast

in production with 2 threads. During the run, model_b and model_c are running in parallel when model_b returns an error.

Assume there are no other errors in the model files, and model_c was still running when model_b failed.

Which model or models will successfully build as part of this dbt run? Choose 1 option.

- A. model_a, model_c, model_d, model_e, model_f
- B. model_a, model_c, model_e
- **C. model_a, model_c**
- D. model_a

Answer: C

Explanation:

The --fail-fast flag tells dbt to stop scheduling any new nodes as soon as one node fails. Importantly, dbt does not kill models that are already running; in-flight nodes are allowed to finish.

Here's what happens step by step with 2 threads:

* Roots model_a and model_b start first.

* model_a finishes successfully. That makes model_c eligible to run.

* dbt now runs model_b and model_c in parallel.

* While they are running, model_b fails.

* Because --fail-fast is set, dbt immediately stops scheduling any additional models (like model_d, model_e, or model_f).

* model_c was already running when model_b failed, so it is allowed to complete successfully.

Downstream models of either branch (model_d, model_e, and model_f) never start, because fail-fast prevents any further nodes from being queued after the first failure.

So, the only models that successfully build during this run are:

* model_a (completed before model_b failed)

* model_c (already running at the time of failure and allowed to finish) Hence the correct choice is B: model_a, model_c.

NEW QUESTION # 65

Which two configuration items can be defined under models: in your dbt_project.yml file?

Choose 2 options.

- A. source
- B. test
- C. tags
- D. target
- E. schema

Answer: C,E

Explanation:

The correct answers are A: schema and C: tags.

In dbt, the dbt_project.yml file is the central configuration file that defines model-level settings. Under the models: section, you can specify a wide range of model configurations such as schema, materialized, tags, alias, and custom meta fields. The schema configuration allows you to control which database schema a model should be built in, giving analytics engineers the flexibility to organize models by domain or environment. The tags configuration is also valid under models: and is widely used to group models logically for selection, documentation, or orchestration workflows.

Option B (source) is incorrect because sources are defined under YAML files in the sources: section, not under models: in dbt_project.yml. Option D (test) is incorrect because tests must be defined in model or source YAML files, not inside the project configuration. Option E (target) is not a configuration that applies to models; rather, it refers to dbt runtime environments and cannot be configured under the models: block.

dbt's project configuration system ensures that model-level behavior is managed centrally and consistently, and schema and tags are two of the officially supported configuration keys under models:.

NEW QUESTION # 66

Examine the configuration for the source:

sources:

- name: jaffle_shop

schema: jaffle_shop_raw_current

tables:

- name: orders

identifier: customer_orders

Which reference to the source is correct?

- A. {{ source('jaffle_shop', 'orders') }}
- B. {{ source('jaffle_shop_raw_current', 'customer_orders') }}
- C. {{ source('jaffle_shop_raw_current', 'orders') }}
- D. {{ source('jaffle_shop', 'customer_orders') }}

Answer: A

Explanation:

In dbt, the source() function resolves a source by its declared source name and table name, not by the physical schema or identifier in the warehouse. The YAML block defines a source named jaffle_shop, and under that source, a table named orders. The identifier: customer_orders field tells dbt that although the logical table name is orders, the actual physical object in the warehouse is named customer_orders.

dbt always expects the syntax:

```
{{ source(source_name, table_name) }}
```

Here, the correct reference uses jaffle_shop as the source name and orders as the table name because these are the logical names assigned in the YAML. dbt internally resolves the physical table name via the identifier field, so the model should not reference customer_orders directly.

Option A and B are incorrect because the first argument is not the schema; dbt does not use schemas in the source() call. Option D is incorrect because customer_orders is the warehouse identifier, not the logical table name recognized by dbt.

Therefore, the correct reference is:

```
{{ source('jaffle_shop', 'orders') }}
```

This ensures consistent modeling, dependency tracking, and accurate documentation.

NEW QUESTION # 67

You are building an incremental model.

Identify the circumstances in which `is_incremental()` would evaluate to True or False.

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Identify the circumstances in which `is_incremental()` would evaluate to True or False.

There is a config block at the top of the model with `materialized = 'table'`

Select a match:

☐ True

☐ False

The corresponding table already exists in the data warehouse

Select a match:

☐ True

☐ False

The incremental model was executed with the `--full-refresh` flag

Select a match:

☐ True

☐ False

The corresponding table does not already exist in the data warehouse

Select a match:

☐ True

☐ False

Answer:

Explanation:

You are building an incremental model.

Identify the circumstances in which `is_incremental()` would evaluate to True or False.

There is a config block at the top of the model with `materialized = 'table'`

Select a match:

☐ True

☒ False

The corresponding table already exists in the data warehouse

Select a match:

☒ True

☐ False

The incremental model was executed with the `--full-refresh` flag

Select a match:

☐ True

☒ False

The corresponding table does not already exist in the data warehouse

Select a match:

☐ True

☒ False

Explanation:

1. There is a config block at the top of the model with `materialized = 'table'`

Answer: False

2. The corresponding table already exists in the data warehouse

Answer: True

3. The incremental model was executed with the --full-refresh flag

Answer: False

4. The corresponding table does not already exist in the data warehouse

Answer: False

The `is_incremental()` macro in dbt is used within an incremental model to determine whether the current invocation should perform an incremental update or a full rebuild. It evaluates to True only during an incremental run when the target table already exists in the data warehouse and dbt is not performing a full refresh.

For `is_incremental()` to return True, two conditions must be met:

- * The model must be materialized as incremental, not table or view. Therefore, if the config specifies `materialized = 'table'`, the model is not incremental, and the function evaluates to False.

- * The table already exists in the target schema. In this case, dbt will run the model in incremental mode, making `is_incremental()` return `**True`.

If the incremental model is run with `--full-refresh`, dbt intentionally rebuilds the entire table, meaning `is_incremental()` evaluates to False, even if the table exists.

Lastly, if the target table does not exist yet, dbt must create it from scratch, so the run is treated as a full rebuild, not an incremental update, causing `is_incremental()` to evaluate to False.

Thus, the only scenario where `is_incremental()` returns True is when the table exists and the model is actually incremental.

NEW QUESTION # 68

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