

PRACTICE QUESTIONS

Microsoft

DP-600

Microsoft Fabric Analytics Engineer Associate

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EDITION	Free Set 2
QUESTIONS	10
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10 practice questions for the Microsoft DP-600 exam, Microsoft Fabric Analytics Engineer Associate, each followed by its answer and a short explanation. More free sets and the full practice exam:

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1. Which Fabric capability replicates an Azure SQL Database into OneLake with near real-time updates and no custom ETL pipeline?

- A Mirroring
- B Shortcut
- C Eventhouse
- D Dataflow Gen1 import

Answer: A

Mirroring continuously replicates supported operational databases, including Azure SQL Database, into OneLake as Delta tables. A shortcut is the tempting distractor, but a shortcut only references data and does not replicate changes into OneLake. An eventhouse stores telemetry and Dataflow Gen1 is a scheduled batch tool.

2. A workspace must be assigned to Fabric capacity, such as a trial or F SKU, before it can host Fabric items like lakehouses and notebooks.

- A True
- B False

Answer: A (True)

This is true. Fabric items need a Fabric capacity, including the trial capacity, and a per-user Pro license alone does not provide one. The tempting assumption is that a Pro license is enough, because Power BI content has worked that way.

3. A PySpark notebook reads a CSV file from the lakehouse Files section and must save it as a managed Delta table named sales. Which statement does this?

- A `df.write.format("csv").mode("overwrite").save("Files/out/sales")`
- B `df.toPandas().to_csv("Tables/sales")`
- C `df.write.format("delta").saveAsTable("sales")`
- D `spark.read.table("sales").show()`

Answer: C

Writing with the delta format and `saveAsTable` creates a managed Delta table registered under the given name. Writing CSV to the Files section is the tempting distractor, since it saves data, but it creates no managed table. Converting to pandas and writing CSV does not produce a Delta table, and reading a table only displays it.

4. Run history and status for pipelines and notebooks are viewed in the Fabric _____ hub.

Answer: Monitor

The Monitor hub lists recent activity and run status for items across the workspaces a user can access. Refresh history is a tempting place to look, but it only covers semantic model refreshes. The capacity metrics app reports consumption rather than individual run status.

5. Which two practices reduce the size of an Import mode semantic model? (Choose two.)

- A Removing columns that no report or measure uses
- B Reducing the cardinality of text columns, such as by rounding or splitting values
- C Storing every timestamp to millisecond precision
- D Keeping raw high-cardinality keys that nothing filters on
- E Adding a calculated column for every measure

Answer: A, B

Removing unused columns cuts the data that the VertiPaq engine must store, and lowering the cardinality of text columns compresses them much better. Keeping raw keys and fine timestamps is the tempting choice, since they preserve detail, but high cardinality is what makes columns large. Calculated columns add stored data rather than reducing it.

6. Which Fabric item is built to store and query high-volume time-series and log data with KQL?

- A Warehouse
- B Lakehouse Files section
- C Dataflow Gen2
- D Eventhouse

Answer: D

An eventhouse holds KQL databases designed for high-velocity telemetry, logs and time-series data. A warehouse is the tempting distractor, but it is a relational T-SQL store rather than a KQL engine for event data. Dataflow Gen2 transforms data in batches and the lakehouse Files section holds raw files.

7. A pipeline must run a notebook only after a Copy activity finishes successfully. Which control achieves this?

- A A schedule set to midnight
- B An On success dependency between the activities
- C Spark pool autoscale rules for added nodes
- D A pipeline parameter named wait

Answer: B

Activity dependencies such as On success, On failure, On completion and On skip define the order in which pipeline activities run. A midnight schedule is the tempting distractor, but it starts the whole pipeline at a time rather than after the copy succeeds. Autoscale and parameters do not control sequencing.

8. DAX calculated column values are recalculated for every filter a user applies in a report.
- A True
 - B False

Answer: B (False)

This is false. Calculated columns are evaluated during refresh and stored in the model, so they do not change with each slicer selection. Measures are the calculations that respond to filter context at query time, which is the tempting confusion.

9. Which DAX function activates an inactive relationship for one calculation?
- A RELATED
 - B LOOKUPVALUE
 - C USERELATIONSHIP
 - D RELATEDTABLE

Answer: C

USERELATIONSHIP, used inside CALCULATE, makes a specific inactive relationship active for that calculation. RELATED is the tempting distractor because it follows relationships, but it only uses the active relationship. RELATEDTABLE and LOOKUPVALUE do not change which relationship is in use.

10. Which Spark SQL statement returns total sales for each product category in a notebook cell?
- A SELECT category, amount FROM sales GROUP BY amount
 - B SELECT category, SUM(amount) FROM sales GROUP BY category
 - C SELECT SUM(category) FROM sales ORDER BY amount
 - D SELECT * FROM sales HAVING category

Answer: B

Grouping by category and applying SUM to amount produces one total per category, which is what the question asks for. The version grouped by amount is the tempting distractor, but it groups on the wrong column and returns the wrong rows. Summing the category text and using HAVING without an aggregate are not valid aggregations.