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Microsoft Developing AI-Enabled Database Solutions Sample Questions (Q16-Q21):

NEW QUESTION # 16

You have an Azure SQL database That contains a table named `dbo.Products`, `dbo.Products` contains three columns named `Embedding`, `Category`, and `Price`. The `Embedding` column is defined as `VECTOR(1536)`.

You use `AI_GENERATE_EMBEDDINGS` and `VECTOR_SEARCH` to support semantic search and apply additional filters on two columns named `Category` and `Price`.

You plan to change the embedding model from `text-embedding-ada-002` to `text-embedding-3-small`. Existing rows already contain embeddings in the `Embedding` column.

You need to implement the model change. Applications must be able to use `VECTOR_SEARCH` without runtime errors.

What should you do first?

- A. Normalize the vector lengths before storing new embeddings.
- B. Create a vector index on `dbo.Products.Embedding`.
- C. Regenerate embeddings for the existing rows.
- D. Convert the `Embedding` column to `nvarchar(max)`.

Answer: C

Explanation:

When you change embedding models, the stored vectors should be treated as belonging to a different embedding space unless you intentionally keep the entire corpus consistent. Microsoft's vector guidance notes that when most or all embeddings are replaced with fresh embeddings from a new model, the recommended practice is to reload the new embeddings and, for large-scale replacement scenarios, consider dropping and recreating the vector index afterward so search quality remains predictable.

This question also says applications must continue to use VECTOR_SEARCH without runtime errors.

VECTOR_SEARCH requires compatible vector dimensions, and the vector column already exists. Azure OpenAI documentation shows that text-embedding-ada-002 is fixed at 1536 dimensions and text-embedding-3-small supports up to 1536 dimensions.

That means the migration can remain compatible with a VECTOR(1536) column, but the right implementation step is still to re-embed the existing rows so the table does not contain a mixed corpus produced by different models.

The other options are not appropriate:

- * B normalization does not solve a model migration problem.
- * C converting the vector column to nvarchar(max) would break vector-native search design.
- * D a vector index improves performance, but it does not migrate old embeddings to the new model.

NEW QUESTION # 17

You need to meet the database performance requirements for maintenance data. How should you complete the Transact-SQL code? To answer, drag the appropriate values to the correct targets. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation:

- * ON # m.maintenanceId = i.maintenanceId
- * WHERE # m.LastModifiedUtc <> i.LastModifiedUtc

The correct drag-and-drop completion is:

- * ON m.maintenanceId = i.maintenanceId
- * WHERE m.LastModifiedUtc <> i.LastModifiedUtc

This satisfies the requirement to ensure that when a row in MaintenanceEvents changes, the corresponding LastModifiedUtc value is updated to the current system time, while also helping avoid unnecessary repeat updates.

The inserted pseudo-table in a SQL Server AFTER UPDATE trigger contains the rows that were just updated.

To update the matching row in the base table correctly, the trigger must join the target table row to the corresponding row in inserted by the table's primary key. In this schema, MaintenanceId is the primary key for MaintenanceEvents, so the correct join is m.maintenanceId = i.maintenanceId. Joining on VehicleId would be incorrect because multiple maintenance rows could exist for the same vehicle, which could update unintended rows. Microsoft's trigger documentation explains that inserted and deleted are used to work with the affected rows and that multi-row logic should be based on proper key matching.

The WHERE m.LastModifiedUtc <> i.LastModifiedUtc predicate is used to prevent the trigger from re-updating rows where the timestamp already matches the value in inserted. That reduces redundant writes and supports the requirement to avoid recursive or repeated update behavior. In practice, this means the trigger updates only rows whose current stored timestamp differs from the just-updated version. This is the exam-appropriate pattern for a self-updating timestamp column in an AFTER UPDATE trigger.

NEW QUESTION # 18

You have an Azure SQL database named AdventureWorksDB that contains a table named dbo.Employee.

You have a C# Azure Functions app that uses an HTTP-triggered function with an Azure SQL input binding to query dbo.Employee.

You are adding a second function that will react to row changes in dbo.Employee and write structured logs.

You need to configure AdventureWorksDB and the app to meet the following requirements:

- * Changes to dbo.Employee must trigger the new function within five seconds.
- * Each invocation must process no more than 100 changes.

Which two database configurations should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Set Sql Trigger MaxBatchSize to 100.
- B. Create an AFTER trigger on dbo.Employee for Data Manipulation Language (DML).
- C. Enable change tracking on the dbo.Employee table.
- D. Set Sql_Trigger_PollingIntervalMs to 5000.

- E. Enable change data capture (CDC) for dbo.Employee table changes
- F. Enable change tracking at the database level.

Answer: C,D

Explanation:

Azure Functions' Azure SQL trigger requires change tracking to be enabled on the source table. Microsoft's SQL trigger documentation states that setting up change tracking for the Azure SQL trigger requires two steps : enable change tracking on the database and enable change tracking on the table being monitored.

Since the question asks specifically which database configurations you should perform, enabling change tracking on dbo.Employee is one of the required database-side steps.

To meet the latency requirement that changes trigger the function within five seconds , the relevant trigger setting is `Sql_Trigger_PollingIntervalMs` . Microsoft documents this setting as the delay, in milliseconds, between processing each batch of changes, and a value of 5000 means the trigger polls every 5 seconds .

A few clarifications about the other options:

- * B is not the documented setting name. The documented app setting is `Sql_Trigger_BatchSize` or host setting `MaxBatchSize` , not "SetSql_Trigger_MaxBatchSize". The screenshot wording suggests a distractor.
- * D is also required in practice for the trigger to work, but the question asks for two answers and includes the polling setting plus the table-level CT setting as the actionable choices presented.
- * F is wrong because the Azure SQL trigger uses change tracking , not CDC.

NEW QUESTION # 19

You have a database named DB1. The schema is stored in a Git repository as an SDK-style SQL database project.

You have a GitHub Actions workflow that already runs dotnet build and produces a database artifact.

You need to add a deployment step that publishes the dacpac file to an Azure SQL database by using the secrets stored in GitHub repository secrets What should you include in the workflow?

- A.
- B.
- C.
- D.

Answer: A

Explanation:

The correct workflow step is Option C because it uses the Azure SQL GitHub Action to publish a .dacpac file and reads the connection string from GitHub repository secrets , which is exactly what the requirement asks for. Microsoft's Azure SQL GitHub Actions guidance shows using `azure/sql-action@v2` with a connection string stored in secrets and a DACPAC path for deployment.

The key parts that make C correct are:

- * uses: `azure/sql-action@v2`
- * action: `publish`
- * path: `bin/Debug/db1.dacpac`
- * connection-string: `${{ secrets.SQL_CONNECTION_STRING }}`

That matches the documented publish pattern for deploying a DACPAC to Azure SQL Database from GitHub Actions. Microsoft and the Azure SQL action documentation both describe Publish as the deployment action for applying a DACPAC to a target database, while Extract is used to create a DACPAC from an existing database, not deploy one.

Why the other options are incorrect:

- * A uses an environment variable defined inline with a visible connection string rather than using GitHub repository secrets , which does not meet the requirement.
- * B uses action: `extract`, which would create a DACPAC from a database instead of publishing the existing DACPAC artifact.
- * D passes a target connection string to `dotnet build`, but the question says the workflow already runs `dotnet build` and produces a database artifact . The missing step is the deployment/publish step, not another build step. Microsoft's SQL project automation guidance separates build the DACPAC from publish the DACPAC .

NEW QUESTION # 20

You need to meet the development requirements for the FeedbackJson column How should you complete the Transact SQL query?

To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

□ Explanation:

```
JSON_VALUE(f.FeedbackJson, '$.text') AS FeedbackText  
CONTAINS(FeedbackJson, @Keyword)
```

SimilarityScore

These three selections are the correct way to complete the query because they align exactly with the stated requirements for the FeedbackJson column.

First, to extract the customer feedback text from the JSON document, the correct expression is `JSON_VALUE(f.FeedbackJson, '$.text')` AS FeedbackText. Microsoft documents that `JSON_VALUE` is used to extract a scalar value from JSON, while `JSON_QUERY` is used for returning an object or array.

Since `$.text` is the textual feedback string, `JSON_VALUE` is the correct function.

Second, to filter rows where the JSON text contains a keyword, the best choice is `CONTAINS(FeedbackJson, @Keyword)`.

The scenario explicitly states that FeedbackJson already has a full-text index

, and Microsoft documents that `CONTAINS` is the full-text predicate used in the WHERE clause to search full-text indexed character data. That makes it more appropriate than using `EDIT_DISTANCE` for keyword filtering.

Third, to order the results by similarity score, highest first, the correct item is `SimilarityScore` in the ORDER BY clause, which would be paired with `DESC` in the query. This matches the requirement to sort by the computed fuzzy similarity value. The DP-800 study guide specifically includes writing queries that use fuzzy string matching functions such as `EDIT_DISTANCE`, which supports the earlier computed `SimilarityScore` expression in the query.

NEW QUESTION # 21

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