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## Microsoft DP-800 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>Implement AI capabilities in database solutions: This domain covers designing and managing external AI models and embeddings, implementing full-text, semantic vector, and hybrid search strategies, and building retrieval-augmented generation (RAG) solutions that connect database outputs with language models.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>Secure, optimize, and deploy database solutions: This domain focuses on implementing data security measures like encryption, masking, and row-level security, optimizing query performance, managing CI</li><li>CD pipelines using SQL Database Projects, and integrating SQL solutions with Azure services including Data API builder and monitoring tools.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>Design and develop database solutions: This domain covers designing and building database objects such as tables, views, functions, stored procedures, and triggers, along with writing advanced T-SQL code and leveraging AI-assisted tools like GitHub Copilot and MCP for SQL development.</li></ul>

## Microsoft Developing AI-Enabled Database Solutions Sample Questions (Q36-Q41):

### NEW QUESTION # 36

You have a Microsoft SQL Server 2025 instance that has a managed identity enabled.

You have a database that contains a table named `dbo.ManualChunks`. `dbo.ManualChunks` contains product manuals.

A retrieval query already returns the top five matching chunks as `nvarchar(max)` text.

You need to call an Azure OpenAI REST endpoint for chat completions. The solution must provide the highest level of security.

You write the following Transact-SQL code.

What should you insert at line 02?

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

**Answer: A**

Explanation:

The correct answer is Option B because the requirement is to call an Azure OpenAI REST endpoint from SQL Server 2025 while providing the highest level of security, and the instance already has a managed identity enabled. For Microsoft's SQL AI features, the preferred secure pattern is to use a database scoped credential with `IDENTITY = 'Managed Identity'` instead of storing an API key. Microsoft documents that SQL Server 2025 supports managed identity for external AI endpoints, and for Azure OpenAI the credential secret uses the Cognitive Services resource identifier: `{ "resourceid " : "https://cognitiveservices.azure.com" }`.

So line 02 should be:

```
WITH IDENTITY = 'Managed Identity',
```

```
SECRET = '{ "resourceid " : "https://cognitiveservices.azure.com" } ' ;
```

 Why the other options are incorrect:

\* A and D use HTTP header or query-string credentials with an API key, which is less secure than managed identity because a secret key must be stored and rotated manually. Microsoft recommends managed identity where supported to avoid embedded secrets.

\* C mixes Managed Identity with an api-key secret, which is not the correct pattern for Azure OpenAI managed-identity authentication.

\* E uses an invalid identity value for this scenario. The accepted credential identities for external REST endpoint calls include `HTTPEndpointHeaders`, `HTTPEndpointQueryString`, `Managed Identity`, and `Shared Access Signature`.

Because the endpoint is Azure OpenAI and the question explicitly asks for the highest security, managed identity with the Cognitive Services resource ID is the Microsoft-aligned answer.

### NEW QUESTION # 37

You need to create a table in the database to store the telemetry data. You have the following Transact-SQL code.

**Answer:**

Explanation:

Explanation:

The first statement is No . The requirement says telemetry data must be stored in a partitioned table to provide predictable performance for ingestion and retention operations. However, the shown CREATE TABLE statement does not define a partition function or partition scheme, and the table is created with a regular clustered primary key on TelemetryId. Microsoft's partitioning guidance states that creating a partitioned table requires a partition function , a partition scheme , and creating the table or index on that partition scheme using a partitioning column. None of that appears in the code, so the table is not partitioned.

The second statement is Yes . The code creates a JSON index named JI\_VehicleTelemetry\_Location on LocationJson for these specific JSON paths: \$.location.latitude, \$.location.longitude, and \$.location.accuracy.

That matches the requirement that those JSON properties must be filterable by using an index seek .

Microsoft documents that JSON indexing is used to optimize filtering and sorting on JSON properties, and the index only helps for the properties included in the index definition.

The third statement is No . The JSON index is defined only for latitude, longitude, and accuracy. A query filtering on \$.location.heading references a different path that is not included in the index definition, so that query would not use JI\_VehicleTelemetry\_Location for that predicate. JSON indexes are path-specific; they do not automatically cover unrelated properties in the same JSON document.

### NEW QUESTION # 38

You have an Azure SQL table that contains the following data.

You need to retrieve data to be used as context for a large language model (LLM). The solution must minimize token usage. Which format should you use to send the data to the LLM?

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

**Answer: C**

Explanation:

The correct choice is Option A because it provides the relevant semantic context the LLM needs while avoiding an unnecessary field that would add tokens without improving answer quality.

For LLM grounding and RAG-style context, Microsoft guidance emphasizes mapping and sending the fields that contain text pertinent to the use case . In this FAQ scenario, the useful context is the ProductName , the Question , and the Answer . Those three fields help the model understand both the subject domain and the actual Q & A pair. By contrast, FaqId is just a technical identifier and generally adds no semantic value for response generation, so including it wastes tokens.

That is why Option A is better than the others:

\* Option A keeps the meaningful text fields and removes the low-value identifier.

\* Option B is too minimal because it includes only the answer text as Prompt, which strips away the product and question context the LLM may need for accurate grounding.

\* Option C keeps FaqId but omits ProductName, which can be important disambiguating context.

\* Option D includes everything, but that does not minimize token usage because it keeps the unnecessary FaqId.

### NEW QUESTION # 39

You have an Azure SQL database that has Query Store enabled

Query Performance Insight shows that one stored procedure has the longest runtime. The procedure runs the following parameterized query.

The dbo.orders table has approximately 120 million rows. Customer-id is highly selective, and orderDate is used for range filtering and sorting.

You have the following indexes:

\* Clustered index: PK\_Orders on (OrderId)

\* Nonclustered index: IX\_Orders\_order-Date on (OrderDate) with no included columns An actual execution plan captured from Query Store for slow runs shows the following:

\* An index seek on ixordersorderDate followed by a Key Lookup (Clustered) on PKOrders for customerid, status, and TotalAmount

\* A sort operator before top (50), because the results are ordered by orderDate DESC For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

**Answer:**

Explanation:

Explanation:

The first statement is Yes . The query filters on CustomerId, applies a range predicate on OrderDate, and sorts by OrderDate DESC. Microsoft's index design guidance recommends putting equality predicates first in the key, followed by columns used for ordering/range access, because the order of key columns determines seek and sort support. A nonclustered index on (CustomerId, OrderDate DESC) can support an ordered seek for this query and avoid the explicit sort. Including Status and TotalAmount helps cover the query, and OrderId is already available because the clustered key is stored with nonclustered index rows.

The second statement is No . Adding CustomerId as an included column to IX\_Orders\_OrderDate does not make it part of the index's navigational structure. Microsoft states that included columns are nonkey columns used to cover queries; they do not provide the seek and ordering characteristics that key columns do. So an index keyed only on OrderDate still is not the right ordered access path for WHERE CustomerId =

@CustomerId ... ORDER BY OrderDate DESC.

The third statement is Yes . The described actual plan shows an index seek on the wrong access path for the workload, followed by clustered key lookups and an explicit sort before TOP (50). That is characteristic of a suboptimal query/index plan . Query Store and Query Performance Insight are designed to surface plan- related performance regressions, while locking/blocking problems are typically identified through waits

/DMVs and blocking-session indicators, not from a plan shape like seek + lookup + sort alone.

**NEW QUESTION # 40**

You have a Microsoft SQL Server 2025 instance that contains a database named SalesDB SalesDB supports a Retrieval Augmented Generation (RAG) pattern for internal support tickets. The SQL Server instance runs without any outbound network connectivity.

You plan to generate embeddings inside the SQL Server instance and store them in a table for vector similarity queries.

You need to ensure that only a database user account named AIApplicationUser can run embedding generation by using the model.

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

NOTE: Each correct selection is worth one point.

- A. Grant the control permission on SalesDB to AIApplicationUser.
- **B. Grant the execute permission on the external model project to AIApplicationUser.**
- C. Create an external model project that points to a Microsoft Foundry REST endpoint.
- **D. Create an external model project by using ONNX runtime and local paths.**
- E. Create a database audit specification on SalesDB owned by AIApplicationUser.

**Answer: B,D**

Explanation:

Because the SQL Server 2025 instance has no outbound network connectivity , the embedding model cannot rely on a remote REST endpoint such as Azure AI Foundry or Azure OpenAI. Microsoft's CREATE EXTERNAL MODEL documentation includes a local deployment pattern using ONNX Runtime running locally with local runtime/model paths . That is the right design when embeddings must be generated inside the SQL Server instance without external network access. Microsoft explicitly documents a local ONNX Runtime example for SQL Server 2025 and notes the required local runtime setup and model path configuration. The permission requirement is handled by granting the application user access to use the external embeddings model. Microsoft's AI\_GENERATE\_EMBEDDINGS documentation states that, as a prerequisite, you must create an external model of type EMBEDDINGS that is accessible via the correct grants, roles, and/or permissions . Among the choices, the exam-appropriate action is to grant execute permission on the external model project to AIApplicationUser so only that database user can run embedding generation through the model.

**NEW QUESTION # 41**

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