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## Microsoft DP-800 Exam Syllabus Topics:

| Topic   | Details                                                                                                                                                                                                                                                                                                                                                                                              |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topic 1 | <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>                                                        |
| Topic 2 | <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 3 | <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/CD pipelines using SQL Database Projects, and integrating SQL solutions with Azure services including Data API builder and monitoring tools.</li></ul> |

>> Test DP-800 Simulator <<

## DP-800 Test Registration - DP-800 Valid Dumps Files

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## Microsoft Developing AI-Enabled Database Solutions Sample Questions (Q10-Q15):

### NEW QUESTION # 10

Drag and Drop Question

You have an Azure SQL database named SalesDB that has Query Store enabled. SalesDB supports an AI-driven product search

API.

Users report that the latency of the API increased immediately after the API was deployed and remains high.

You need to identify whether the latency increase was caused by an execution plan regression and, if so, decide which corrective action will restore a previous plan. The solution must prevent any changes to the API code.

What should you use? To answer, drag the appropriate tools to the correct step. Each tool 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.

| Tools                                                              | Answer Area                                                                           |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <input type="checkbox"/> Azure Monitor                             | To identify long-running queries: <input type="text"/>                                |
| <input type="checkbox"/> Log Analytics                             | To verify that the query has multiple persisted plans over time: <input type="text"/> |
| <input type="checkbox"/> Query Performance Insight                 | To restore a previous plan without changing the code: <input type="text"/>            |
| <input type="checkbox"/> The Query Store plan store                |                                                                                       |
| <input type="checkbox"/> Plan forcing in Query Store               |                                                                                       |
| <input type="checkbox"/> The Regressed Queries pane in Query Store |                                                                                       |

**Answer:**

**Explanation:**

| Tools                                                              | Answer Area                                                                           |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <input type="checkbox"/> Azure Monitor                             | To identify long-running queries: <input type="text"/>                                |
| <input type="checkbox"/> Log Analytics                             | To verify that the query has multiple persisted plans over time: <input type="text"/> |
| <input type="checkbox"/> Query Performance Insight                 | To restore a previous plan without changing the code: <input type="text"/>            |
| <input type="checkbox"/> The Query Store plan store                |                                                                                       |
| <input type="checkbox"/> Plan forcing in Query Store               |                                                                                       |
| <input type="checkbox"/> The Regressed Queries pane in Query Store |                                                                                       |

### NEW QUESTION # 11

You have an SDK-style SQL database project stored in a Git repository. The project targets an Azure SQL database.

The CI build fails with unresolved reference errors when the project references system objects.

You need to update the SQL database project to ensure that dotnet build validates successfully by including the correct system objects in the database model for Azure SQL Database.

Solution: Add an artifact reference to the Azure SQL Database master.dacpac file.

Does this meet the goal?

- A. No
- B. Yes

**Answer: A**

**Explanation:**

For an SDK-style SQL database project targeting Azure SQL Database, Microsoft recommends using the Azure SQL system DACPAC as a NuGet package reference rather than adding a direct artifact reference to master.dacpac for new SDK-style development. Microsoft's SQL Database Projects documentation says direct .dacpac artifact references are not recommended for new development in SDK-style projects; instead, use NuGet package references.

Because the goal is specifically to make dotnet build validate successfully with the correct Azure SQL system objects, adding an artifact reference to master.dacpac is not the recommended SDK-style solution. It can work in some project styles, but it does not meet the stated goal as the proper approach for SDK-style Azure SQL projects.

### NEW QUESTION # 12

Drag and Drop Question

You have an Azure SQL database that contains a table named Sales.Orders. Sales.Orders contains the following columns.

| Column      | Data type     |
|-------------|---------------|
| OrderId     | int           |
| CustomerId  | int           |
| OrderDate   | datetime2     |
| TotalAmount | decimal(18,2) |

Reporting queries frequently repeat logic to calculate the number of days since an order was placed.

You need to create a scalar user-defined function (UDF) that returns the number of days between an input value of @OrderDate and the current date and time.

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.

**Values**

AS RETURN

DATEADD(day, @OrderDate, GETDATE())

DATEDIFF(day, @OrderDate, GETDATE())

RETURNS INT

RETURNS TABLE

WITH SCHEMABINDING

**Answer Area**

```

CREATE FUNCTION dbo.ufn_DaysSinceOrder
(
    @OrderDate datetime2(0)
)
BEGIN
    DECLARE @Days int;
    SELECT @Days = 
    RETURN @Days;
END;
GO

```

**Answer:**

Explanation:

**Values**

AS RETURN

DATEADD(day, @OrderDate, GETDATE())

DATEDIFF(day, @OrderDate, GETDATE())

RETURNS INT

RETURNS TABLE

WITH SCHEMABINDING

**Answer Area**

```

CREATE FUNCTION dbo.ufn_DaysSinceOrder
(
    @OrderDate datetime2(0)
)
RETURNS INT
BEGIN
    DECLARE @Days int;
    SELECT @Days = DATEDIFF(day, @OrderDate, GETDATE()) ;
    RETURN @Days;
END;
GO

```

### NEW QUESTION # 13

Drag and Drop Question

You have a SQL database in Microsoft Fabric that contains a table named WebSite.Logs.

WebSite.Logs stores application telemetry data. WebSite.Logs contains a nvarchar (max) column named log that stores JSON documents.

You have a daily report that filters by the \$.severity JSON property and returns LogId, LogDateTime, and log. The report frequently causes full table scans.

You need to modify WebSite.Logs to support efficient filtering by \$.severity and avoid key lookups for the columns returned by the report.

How should you complete the Transact-SQL code to avoid full table scans? 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.

**Values**  

AS JSON\_QUERY([log], '\$.severity')

AS JSON\_VALUE([log], '\$.severity') PERSISTED

INCLUDE (log)

INCLUDE (LogId, LogDateTime, [log])

**Answer Area**  
ALTER TABLE WebSite.Logs  
ADD severity  
GO  
CREATE INDEX ix\_severity  
ON WebSite.Logs(severity)  
  
GO

**Answer:**

**Explanation:**

**Values**  

AS JSON\_QUERY([log], '\$.severity')

AS JSON\_VALUE([log], '\$.severity') PERSISTED

INCLUDE (log)

INCLUDE (LogId, LogDateTime, [log])

**Answer Area**  
ALTER TABLE WebSite.Logs  
ADD severity AS JSON\_VALUE([log], '\$.severity') PERSISTED  
GO  
CREATE INDEX ix\_severity  
ON WebSite.Logs(severity)  
INCLUDE (LogId, LogDateTime, [log])  
GO

#### NEW QUESTION # 14

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

**Answer: B,E**

**Explanation:**

To implement a Retrieval Augmented Generation (RAG) pattern in an isolated SQL Server 2025 instance, you can use the new native vector capabilities to generate, store, and query embeddings without needing outbound internet access.

[E] 1. Enable External REST Endpoints

Because your instance is isolated, you must first enable the configuration that allows SQL Server to communicate with your internal Microsoft Foundry (or local) endpoint.

```
EXEC sp_configure 'external rest endpoint enabled', 1;
RECONFIGURE;
```

2. Create the External Model Project

Register your Microsoft Foundry REST endpoint as an external model. This allows SQL Server to treat the internal service as a registered provider for generating embeddings.

[C] 3. Grant Permission to a Specific User

To restrict embedding generation to a single specific database user, grant the EXECUTE permission on the newly created external model.

```
GRANT EXECUTE ON EXTERNAL MODEL::[MyFoundryEmbeddingModel] TO [AppUser]; Use code with caution.
```

Use the `AI_GENERATE_EMBEDDINGS` function to process text into vectors and store them in a table with the new `VECTOR` data type.

[https://www.red-gate.com/simple-talk/databases/sql-server/sql-server-2025-create-external-model-and-ai\\_generate\\_embeddings-commands-explained/](https://www.red-gate.com/simple-talk/databases/sql-server/sql-server-2025-create-external-model-and-ai_generate_embeddings-commands-explained/)

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