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## Microsoft DP-800 Exam Simulations - DP-800 Standard Answers

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## Microsoft Developing AI-Enabled Database Solutions Sample Questions (Q60-Q65):

### NEW QUESTION # 60

You have an Azure SQL database.

You deploy Data API builder (DAB) to Azure Container Apps by using the `mcr.microsoft.com/azure-databases/data-api-builder:latest` image.

You have the following Container Apps secrets:

- `MSSQL_CONNECTION_STRING` that maps to the SQL connection string
- `DAB_CONFIG_BASE64` that maps to the DAB configuration

You need to initialize the DAB configuration to read the SQL connection string.

Which command should you run?

- `A. dab init --database-type mssql --connection-string "@env('MSSQL_CONNECTION_STRING')" -- host-mode Production --config dab-config.json`
- `B. dab init --database-type mssql --connection-string "secretref:mssql-connection-string" --host- mode Production --config dab-config.json`
- `C. dab init --database-type mssql --connection-string "@env('DAB_CONFIG_BASE64')" --host-mode Production --config`

dab-config.json

- D. dab init --database-type mssql --connection-string "secretref:DAB\_CONFIG\_BASE64" --host-mode Production --config dab-config.json

**Answer: A**

Explanation:

To initialize the Data API builder (DAB) configuration to read the SQL connection string from your Container Apps secret, use the following dab init command:

dab init --database-type mssql --connection-string "@env('MSSQL\_CONNECTION\_STRING')" Why this command works  
--database-type mssql: Specifies that you are connecting to an Azure SQL or SQL Server database.

@env('MSSQL\_CONNECTION\_STRING'): This is the built-in DAB function that tells the runtime to substitute the value of the specified environment variable at load time. Since your Container Apps secret is mapped to MSSQL\_CONNECTION\_STRING, DAB will resolve it automatically when the container starts.

--connection-string: This flag sets the data source connection. By using the @env() syntax here, you ensure the secret remains out of the static configuration file.

Reference:

<https://learn.microsoft.com/en-us/azure/data-api-builder/command-line/dab-init>

### NEW QUESTION # 61

You have an Azure SQL 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 request body must include both the user question and the retrieved chunks.

You write the following Transact-SQL code.

```
01 CREATE DATABASE SCOPED CREDENTIAL AzureOpenAIHeaders
02 WITH IDENTITY = 'HTTPendpointHeaders',
03 SECRET = N'{"api-key":"<YOUR_AZURE_OPENAI_API_KEY>"}';
04 GO
05 CREATE OR ALTER PROCEDURE dbo.AskManuals
06 . . .
07 SELECT @chunks =
08 (
09     SELECT TOP (5)
10     mc.ChunkText AS [text]
11     FROM dbo.ManualChunks AS mc
12     ORDER BY mc.Score DESC
13     FOR JSON PATH
14 );
15 SET @payload =
16 (
17     SELECT
18     'system' AS [messages[0].role],
19     'use only the provided manual chunks.' AS [messages[0].content],
20     'user' AS [messages[1].role],
21     CONCAT(@question, CHAR(10), JSON_QUERY(@chunks)) AS [messages[1].content]
22 );
23 );
24
25 EXEC @retval =
26 . . .
27 END;
28 GO
```

What should you insert at line 22?

- A. FOR JSON PATH, WITHOUT\_ARRAY\_WRAPPER
- B. FOR JSON AUTO, INCLUDE\_NULL\_VALUES
- C. FOR XML PATH, INCLUDE\_NULL\_VALUES
- D. FOR XML AUTO, TYPE, XMLSCHEMA

**Answer: A**

Explanation:

To construct a payload for the Azure OpenAI REST API within Azure SQL, you can use a Common Table Expression (CTE) to

structure the messages and then collapse them into a single JSON object.

T-SQL Payload Generation

Key Implementation Details

Message Hierarchy: Azure OpenAI requires a messages array. By nesting a subquery with FOR JSON PATH inside the main SELECT, SQL Server creates the required JSON array of objects.

JSON Formatting: Using FOR JSON PATH, WITHOUT\_ARRAY\_WRAPPER on the outer selection ensures the root of your @payload is a clean JSON object {...} rather than a single- element array [{...}].

Context Injection: It is standard practice to prepend the retrieved manual chunks to the system message or a dedicated user message to provide the model with the necessary grounding data.

Assuming you have your retrieved chunks concatenated into a single @Context variable and the user's input in @UserQuestion, use the following logic:

```
DECLARE @UserQuestion NVARCHAR(MAX) = 'How do I reset the device?';
```

```
DECLARE @Context NVARCHAR(MAX) = 'Manual Chunk 1... Manual Chunk 2...'; -- Your top 5 chunks DECLARE @payload NVARCHAR(MAX);
```

```
-- Define the message structure for Chat Completions
```

```
WITH ChatMessages AS (
```

```
SELECT 'system' AS [role],
```

```
'You are a helpful assistant. Use these manual excerpts: ' + @Context AS [content] UNION ALL SELECT 'user' AS [role], @UserQuestion AS [content]
```

```
)
```

```
-- Generate the final JSON body
```

```
SELECT @payload = (
```

```
SELECT
```

```
(SELECT [role], [content] FROM ChatMessages FOR JSON PATH) AS [messages],
```

```
0.7 AS [temperature],
```

```
800 AS [max_tokens]
```

```
FOR JSON PATH, WITHOUT_ARRAY_WRAPPER
```

```
);
```

```
-- Resulting @payload is now ready for sp_invoke_external_rest_endpoint PRINT @payload; Reference:
```

```
https://devblogs.microsoft.com/azure-sql/using-openai-rest-endpoints-with-azure-sql-database
```

## NEW QUESTION # 62

You have an Azure SQL database named SalesDB

You have a Data API builder (DAB) instance that exposes the following entities in SalesDB

\* A table entity named Order mapped to a table named dbo. Orders

\* A stored procedure entity named FinalizeOrder mapped to a stored procedure named dbo.usp\_FinalizeOrder The DAB runtime configuration includes the following permissions.

```

{
  "entities": {
    "order": {
      "source": "dbo.Orders",
      "permissions": [
        {
          "role": "authenticated",
          "actions": [ "read" ]
        }
      ]
    },
    "FinalizeOrder": {
      "source": "dbo.usp_Finalizeorder",
      "permissions": [
        {
          "role": "operations",
          "actions": [ "execute" ],
          "policy": {
            "database": "TenantId = @claims.tenantId"
          }
        }
      ]
    }
  }
}

```

Client requests include a Microsoft Entra access token. The client also sends HTTP header x-MS-API-ROIE: operations for both REST and GraphQL requests. For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Statements	Yes	No
A REST GET request to the order entity that includes the access token and x-MS-API-ROIE: operations will return data.	<input type="radio"/>	<input type="radio"/>
When DAB runs the stored procedure, the database policy defined on the Finalizeorder entity will be enforced.	<input type="radio"/>	<input type="radio"/>
If the client omits the x-MS-API-ROIE header but still sends the same access token, the order entity read request will run in the authenticated role context.	<input type="radio"/>	<input type="radio"/>

**Answer:**

**Explanation:**

Statements	Yes	No
A REST GET request to the order entity that includes the access token and x-MS-API-ROIE: operations will return data.	<input type="radio"/>	<input checked="" type="radio"/>
When DAB runs the stored procedure, the database policy defined on the Finalizeorder entity will be enforced.	<input checked="" type="radio"/>	<input type="radio"/>
If the client omits the x-MS-API-ROIE header but still sends the same access token, the order entity read request will run in the authenticated role context.	<input checked="" type="radio"/>	<input type="radio"/>

**Explanation:**

\* A REST GET request to the order entity that includes the access token and x-MS-API-ROIE: operations will return data. # No  
 \* When DAB runs the stored procedure, the database policy defined on the FinalizeOrder entity will be enforced. # Yes  
 \* If the client omits the x-MS-API-ROIE header but still sends the same access token, the order entity read request will run in the authenticated role context. # Yes The first statement is No . In Data API builder, when a valid token is sent with X-MS-API-ROIE, the request runs in that requested role if that role is present in the token . Here, that means the effective role becomes operations , not authenticated. But the order entity grants read only to the authenticated role, not to operations, so the GET request would not be authorized to return data.

The second statement is Yes . DAB evaluates the request against the permissions and policies configured for the effective role on the requested entity. The FinalizeOrder entity grants execute to role operations and includes a database policy of TenantId = @claims.tenantid, so that policy is part of the enforced authorization /filtering behavior when the stored procedure entity is executed.

The third statement is Yes . If the client sends a valid access token without X-MS-API-ROLE, DAB uses the built-in Authenticated system role by default. Since the order entity allows read for the authenticated role, that read request runs in the authenticated role context.

Top of Form

Bottom of Form

### NEW QUESTION # 63

You have an Azure SQL database named SalesDB that contains tables named Sales.Orders and Sales.OrderLines. Both tables contain sales data

You have a Retrieval Augmented Generation (RAG) service that queries SalesDB to retrieve order details and passes the results to a large language model (LLM) as JSON text. The following is a sample of the JSON.

```
{
  "orderHeaderId": 102348,
  "orderNumber": "SO-2026-000912",
  "orderDateUtc": "2026-01-28T14:22:09Z",
  "customerId": 77821,
  "currencyCode": "EUR",
  "orderTotal": 149.97,
  "lines": [
    {
      "lineNumber": 1,
      "productId": 5012,
      "sku": "CBL-USB-C-1M",
      "quantity": 2,
      "unitPrice": 19.99,
      "lineTotal": 39.98
    },
    {
      "lineNumber": 2,
      "productId": 8841,
      "sku": "HUB-USB-C-7P",
      "quantity": 1,
      "unitPrice": 109.99,
      "lineTotal": 109.99
    }
  ]
}
```

You need to return one JSON document per order that includes the order header fields and an array of related order lines. The LLM must receive a single JSON array of orders, where each order contains a lines property that is a JSON array of line items. Which transact-SQL commands should you use to produce the required JSON shape from the relational tables? To answer, drag the appropriate commands to the correct operations. Each command 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.

Commands	Answer Area
<input type="checkbox"/> FOR_JSON_PATH	Serialize the order-level JSON: <input type="text"/>
<input type="checkbox"/> JSON_MODIFY	Generate a nested lines array: <input type="text"/>
<input type="checkbox"/> JSON_QUERY	Extract a single scalar value from the JSON text: <input type="text"/>
<input type="checkbox"/> JSON_VALUE	
<input type="checkbox"/> OPENJSON	

**Answer:**

**Explanation:**



**Explanation:**

- \* Serialize the order-level JSON : FOR\_JSON\_PATH
- \* Generate a nested lines array : JSON\_QUERY
- \* Extract a single scalar value from the JSON text : JSON\_VALUE

The correct mapping is based on how SQL Server and Azure SQL JSON functions are designed to shape relational data into JSON for AI and RAG scenarios.

To serialize the order-level JSON , use FOR\_JSON\_PATH . Microsoft documents that FOR\_JSON\_PATH gives you full control over the JSON output shape and formats the result as an array of JSON objects . It is the standard way to turn relational query results into the JSON structure needed by downstream consumers such as APIs and LLM-based RAG services. It also supports nested output through subqueries and aliases.

To generate a nested lines array , use JSON\_QUERY . Microsoft explains that JSON\_QUERY returns a JSON object or array from JSON text, and it is used when you want to preserve a JSON fragment instead of treating it as plain text. In this scenario, the nested\_lines property must be emitted as a proper JSON array inside each order document, so JSON\_QUERY is the correct command to embed that array in the final JSON shape.

To extract a single scalar value from the JSON text , use JSON\_VALUE . Microsoft explicitly states that JSON\_VALUE extracts a scalar value from a JSON string, while JSON\_QUERY is for objects or arrays. So whenever the requirement is to pull out one property such as an order number, currency code, or customer ID from JSON text, JSON\_VALUE is the correct function.

The unused commands are not the best fit here:

- \* OPENJSON is primarily for parsing JSON into rows and columns, not for shaping relational tables into nested output.
- \* JSON\_MODIFY is for updating JSON text, not generating the required output structure.

So the drag-and-drop answers are:

- \* Serialize the order-level JSON # FOR\_JSON\_PATH
- \* Generate a nested lines array # JSON\_QUERY
- \* Extract a single scalar value from the JSON text # JSON\_VALUE

#### **NEW QUESTION # 64**

You have a Microsoft SQL Server 2025 database that contains a table named products. products contains two columns named description and embedding. embedding is generated from description.

You have an application named App1. App1 has a feature that uses the following query.

```
VECTOR_DISTANCE('cosine', @query_vector, embedding)
```

Users report that the feature is slow during peak usage times.

You discover that during peak usage times, the semantic search latency increases and CPU utilization spikes.

You need to reduce latency and CPU utilization related to the App1 feature.

What should you do?

- A. Create a vector index on products.embedding and change the query to use VECTOR\_NORMALIZE and NORM\_TYPE = 'norml'.
- B. Change embedding to VARBINARY(8000).
- **C. Create a vector index on products.embedding and change the query to use VECTOR\_SEARCH and METRIC = 'cosine'.**
- D. Add a nonclustered index on products.embedding.
- E. Use CONTAINSTABLE against description only and remove the vector search.

**Answer: C**

**Explanation:**

To optimize your Microsoft SQL Server 2025 environment, you should transition from a brute-force distance calculation to an Approximate Nearest Neighbor (ANN) search using a DiskANN-based vector index.

The Solution: Vector Indexing

The VECTOR\_DISTANCE function performs a full table scan, calculating the distance for every single row. During peak times, this

consumes massive CPU cycles. A vector index allows SQL Server to navigate a pre-built graph to find matches, reducing complexity from  $O(n)$  to  $O(\log n)$ .

Implementation Steps

1. Create the Vector Index

You must specify the distance metric during index creation. For cosine similarity, use COSINE.

```
CREATE VECTOR INDEX idx_product_embedding
```

```
ON products (embedding)
```

```
WITH (METRIC = 'COSINE');
```

2. Update the Search Query

Replace the WHERE or ORDER BY clause that uses VECTOR\_DISTANCE with the VECTOR\_SEARCH function.

```
SELECT TOP (10) description, embedding
```

```
FROM products
```

```
WHERE VECTOR_SEARCH(
```

```
embedding,
```

```
@query_vector,
```

```
'COSINE',
```

```
10 -- Number of neighbors to return
```

```
);
```

Why This Solves Your Problem

CPU Relief: Avoids calculating distances for millions of rows.

Lower Latency: DiskANN is designed for sub-second retrieval even on large datasets.

Peak Performance: By offloading the math to a specialized index structure, the engine remains responsive for other transactional queries.

Reference:

<https://learn.microsoft.com/en-us/azure/postgresql/extensions/how-to-use-pgdiskann>

## NEW QUESTION # 65

.....

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