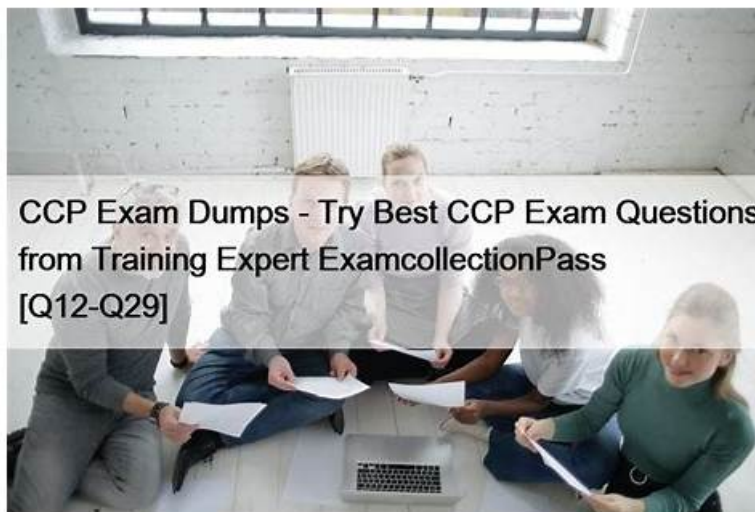


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## Microsoft DP-800 Exam Syllabus Topics:

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</li><li>CD pipelines using SQL Database Projects, and integrating SQL solutions with Azure services including Data API builder and monitoring tools.</li></ul>

## Microsoft Developing AI-Enabled Database Solutions Sample Questions (Q40-Q45):

### NEW QUESTION # 40

You need to recommend a solution that will resolve the ingestion pipeline failure issues. Which two actions should you recommend? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Enable snapshot isolation on the database.
- B. Add foreign key constraints on the table.
- C. Add a check constraint that validates the JSON structure.
- D. Use a trigger to automatically rewrite malformed JSON.
- E. Create a unique index on a hash of the payload.

Answer: C,E

Explanation:

The two correct actions are D and E because the ingestion failures are caused by malformed JSON and duplicate payloads, and these two controls address those two problems directly. Microsoft's JSON documentation states that SQL Server and Azure SQL support validating JSON with ISJSON, and Microsoft specifically recommends using a CHECK constraint to ensure JSON text stored in a column is properly formatted.

For the duplicate-payload issue, creating a unique index on a hash of the payload is the appropriate design.

Microsoft documents using hashing functions such as HASHBYTES to hash column values, and SQL Server allows a deterministic computed column to be used as a key column in a UNIQUE constraint or unique index. That makes a persisted hash-based computed column plus a unique index a practical and exam-consistent way to reject duplicate payloads efficiently.

The other options do not solve the stated root causes:

- \* Snapshot isolation addresses concurrency behavior, not malformed JSON or duplicate payload detection.
- \* A trigger to rewrite malformed JSON is not the right integrity control and is brittle.
- \* Foreign key constraints enforce referential integrity, not JSON validity or duplicate-payload prevention

### NEW QUESTION # 41

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.

```
CREATE OR ALTER PROCEDURE dbo.GetRecentOrders
    @CustomerId int,
    @SinceDate datetime2
AS
SELECT TOP (50)
    o.OrderId, o.OrderDate, o.Status, o.TotalAmount
FROM dbo.Orders AS o
WHERE o.CustomerId = @CustomerId
    AND o.OrderDate >= @SinceDate
ORDER BY o.OrderDate DESC;
```

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\_orderDate 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 Area		Microsoft		Yes	No
<b>Statements</b>					
To avoid the explicit sort for the query, create a nonclustered index on (CustomerId, OrderDate DESC) that includes (Status, TotalAmount).		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
To eliminate the sort and make the query use an ordered seek, add CustomerId as an included column to IX_Orders_OrderDate.		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The plan indicates a bottleneck from a suboptimal query plan, rather locking or blocking.		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**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 # 42**

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 Area

```
SELECT
    f.FeedbackId,
    f.VehicleId,
    CONTAINS(FeedbackJson, @keyword)
    EDIT_DISTANCE( JSON_VALUE(f.FeedbackJson, '$.details.comment'), @Keyword) < 3
    EDIT_DISTANCE(JSON_VALUE(f.FeedbackJson, '$.text'), @Keyword) < 3
    JSON_QUERY(f.FeedbackJson, '$.text', @KnownIssueDescription) AS FeedbackText
    JSON_VALUE(f.FeedbackJson, '$.text') AS FeedbackText
    SimilarityScore
FROM
    dbo.CustomerFeedback f
WHERE
```

```
CONTAINS(FeedbackJson, @Keyword)
EDIT_DISTANCE( JSON_VALUE(f.FeedbackJson, '$.details.comment'), @Keyword) < 3
EDIT_DISTANCE(JSON_VALUE(f.FeedbackJson, '$.text'), @Keyword) < 3
JSON_QUERY(f.FeedbackJson, '$.text', @KnownIssueDescription) AS FeedbackText
JSON_VALUE(f.FeedbackJson, '$.text') AS FeedbackText
SimilarityScore
```

```
CONTAINS(FeedbackJson, @Keyword)
EDIT_DISTANCE( JSON_VALUE(f.FeedbackJson, '$.details.comment'), @Keyword) < 3
EDIT_DISTANCE(JSON_VALUE(f.FeedbackJson, '$.text'), @Keyword) < 3
JSON_QUERY(f.FeedbackJson, '$.text', @KnownIssueDescription) AS FeedbackText
JSON_VALUE(f.FeedbackJson, '$.text') AS FeedbackText
SimilarityScore
```

## 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 # 43

You have a GitHub Codespaces environment that has GitHub Copilot Chat installed and is connected to a SQL database in Microsoft Fabric named DB1. DB1 contains tables named Sales.Orders and Sales.Customers.

You use GitHub Copilot Chat in the context of DB1.

A company policy prohibits sharing customer Personally Identifiable Information (PII), secrets, and query result sets with any AI service.

You need to use GitHub Copilot Chat to write and review Transact-SQL code for a new stored procedure that will join Sales.Orders to sales.Customers and return customer names and email addresses. The solution must NOT share the actual data in the tables with GitHub Copilot Chat.

What should you do?

- A. Ask GitHub Copilot Chat to generate the stored procedure by using schema details only.
- B. From Sales.Customers, paste several rows that include email addresses into a chat, so that GitHub Copilot Chat can infer edge cases.
- C. Run a select statement that returns customer names and email addresses and provide the result set to GitHub Copilot Chat so that GitHub Copilot Chat can generate the stored procedure.
- D. Provide the database connection string to GitHub Copilot Chat so that GitHub Copilot Chat can validate the stored procedure.

**Answer: A**

Explanation:

The correct answer is D because the policy explicitly prohibits sharing customer PII, secrets, and query result sets with any AI service. The safe way to use GitHub Copilot Chat here is to provide only schema-level information such as table names, column names, relationships, and the required procedure behavior, without sharing actual table contents or result sets. That lets Copilot help generate and review the Transact-SQL while avoiding disclosure of customer data. This is consistent with Microsoft and GitHub guidance that content provided in prompts is what the AI can use, so avoiding real data in the prompt is the appropriate control.

The other options violate the requirement:

\* A pastes real rows containing email addresses, which is direct PII disclosure.

\* B shares actual query result sets, which the policy forbids.

\* C provides the connection string so Copilot can validate against the database, which is inappropriate because it exposes connection details and could enable access beyond schema-only assistance.

So the correct approach is to ask Copilot to generate the stored procedure using only the schema and requirements, not real customer data.

### NEW QUESTION # 44

You have a SQL database in Microsoft Fabric that contains a table named dbo.Orders, dbo.Orders has a clustered index, contains three years of data, and is partitioned by a column named OrderDate by month.

You need to remove all the rows for the oldest month. The solution must minimize the impact on other queries that access the data in dbo.orders.

Solution: Identify the partition number for the oldest month, and then run the following Transact-SQL statement.

```
TRUNCATE TABLE dbo.Orders
```

```
WITH (PARTITIONS (partition number));
```

Does this meet the goal?

- A. No
- B. Yes

**Answer: B**

Explanation:

Yes, this meets the goal. Microsoft documents that on a partitioned table, you can use TRUNCATE TABLE ... WITH (PARTITIONS (...)) to remove data from a specific partition, and that this is an efficient maintenance operation that targets only that data subset rather than the whole table. Microsoft's partitioning guidance explicitly lists truncating a single partition as an example of a fast partition-level maintenance or retention operation.

That matches the requirement to remove the oldest month while minimizing impact on other queries.

Because the table is already partitioned by month on OrderDate , identifying the partition number for that oldest month and truncating only that partition is the correct low-impact approach, assuming the table and indexes are aligned as required for partition truncation.

## NEW QUESTION # 45

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