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>> Certification DP-800 Training <<

## 100% Pass 2026 Pass-Sure DP-800: Certification Developing AI-Enabled Database Solutions Training

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## Microsoft Developing AI-Enabled Database Solutions Sample Questions (Q94-Q99):

### NEW QUESTION # 94

What is the primary purpose of Azure AI in SQL development?

- A. Enhance querying and analytics with AI capabilities
- B. Automate infrastructure deployment
- C. Eliminate the need for databases
- D. Replace SQL Server

**Answer: A**

Explanation:

Azure AI integrates with SQL to enable intelligent insights like natural language queries, anomaly detection, and predictive analytics.

**NEW QUESTION # 95**

Case Study 1 - Contoso

Existing Environment

Azure Environment

Contoso has an Azure subscription in North Europe that contains the corporate infrastructure.

The current infrastructure contains a Microsoft SQL Server 2017 database. The database contains the following tables.

Table names	Column names
CustomerFeedback	<ul style="list-style-type: none"> <li>• FeedbackId (int) (primarykey)</li> <li>• FeedbackJson (nvarchar (max))</li> </ul>
Microsoft Fleets	<ul style="list-style-type: none"> <li>• FleetId (int) (primarykey)</li> <li>• FleetName (nvarchar(100))</li> <li>• Description (nvarchar(256))</li> </ul>
MaintenanceEvents	<ul style="list-style-type: none"> <li>• MaintenanceId (int) (primarykey)</li> <li>• VehicleId (int)</li> <li>• LastModifiedUTC (datetime2)</li> <li>• Description (nvarchar(256))</li> </ul>
SupportTickets	<ul style="list-style-type: none"> <li>• TicketId (int) (primarykey)</li> <li>• FleetId (int)</li> <li>• CreatedUtc (datetime2)</li> </ul>
UserAccounts	<ul style="list-style-type: none"> <li>• UserId (int) (primarykey)</li> <li>• UserPrincipalName (nvarchar(256))</li> <li>• JobRole (nvarchar(256))</li> <li>• StartDate (datetime2)</li> </ul>
VehicleIncidentReports	<ul style="list-style-type: none"> <li>• IncidentId (int) (primarykey)</li> <li>• VehicleId (int)</li> <li>• FleetId (int)</li> <li>• IncidentType (nvarchar(50))</li> <li>• VehicleLocation (nvarchar(200))</li> <li>• IncidentDescription (nvarchar(max))</li> <li>• SeverityScore (int)</li> </ul>
Vehicles	<ul style="list-style-type: none"> <li>• VehicleId (int) (primarykey)</li> <li>• VIN ((nvarchar(50))</li> <li>• VehicleDescription (nvarchar(256))</li> </ul>
VehicleHealthSummary	<ul style="list-style-type: none"> <li>• VehicleId (int) (primarykey)</li> <li>• FleetId (int)</li> <li>• Summary (nvarchar(2000))</li> <li>• LastUpdatedUtc (datetime2)</li> <li>• EngineStatus [bit]</li> <li>• EngineStatusLastUpdatedUtc (datetime2)</li> <li>• BatteryHealth (int)</li> <li>• Embeddings (vector (1536))</li> </ul>

The FeedbackJson column has a full-text index and stores JSON documents in the following format.

```
{
  "text": "The battery drains too fast when driving uphill.",
  "category": "Battery",
  "metadata": {
    "appVersion": "5.2.1",
    "device": "Android",
    "language": "en-GB"
  }
}
```

The support staff at Contoso never has the UNMASK permission.

#### Problem Statements

Contoso is deploying a new Azure SQL database that will become the authoritative data store for the following:

- \* AI workloads
- \* Vector search
- \* Modernized API access
- \* Retrieval Augmented Generation (RAG) pipelines

Sometimes the ingestion pipeline fails due to malformed JSON and duplicate payloads.

The engineers at Contoso report that the following dashboard query runs slowly.

```
SELECT VehicleId, LastUpdatedUtc, EngineStatus, BatteryHealth
FROM dbo.VehicleHealthSummary
WHERE FleetId = @FleetId
ORDER BY LastUpdatedUtc DESC;
```

You review the execution plan and discover that the plan shows a clustered index scan.

VehicleIncidentReportsoften contains details about the weather, traffic conditions, and location. Analysts report that it is difficult to find similar incidents based on these details.

#### Requirements

##### Planned Changes

Contoso wants to modernize Fleet Intelligence Platform to support AI-powered semantic search over incident reports.

##### Security Requirements

Contoso identifies the following security requirements:

- \* Restrict the support staff from viewing Personally Identifiable Information (PII) data, which is full email addresses and phone numbers.
- \* Enforce row-level filtering so that analysts see only incidents for the fleets to which they are assigned. The analysts can be assigned to multiple fleets.

##### Database Performance and Requirements

Contoso identifies the following telemetry requirements:

- \* Telemetry data must be stored in a partitioned table.
- \* Telemetry data must provide predictable performance for ingestion and retention operations.
- \* latitude, longitude, and accuracyJSON properties must be filtered by using an index seek.

Contoso identifies the following maintenance data requirements:

- \* Ensure that any changes to a row in the MaintenanceEventstable updates the corresponding value in the LastModifiedUtc column to the time of the change.
- \* Avoid recursive updates.

##### AI Search, Embeddings, and Vector Indexing

Contoso plans to implement semantic search over incident data to meet the following requirements:

- \* Embeddings must be stored in dedicated Azure SQL Database tables.
- \* Embeddings must be generated from rich natural language fields.
- \* Chunking must preserve semantic coherence.
- \* Hybrid search must combine the following:

- Vector similarity
- Keyword filtering or boosting

##### Development Requirements

The development team at Contoso will use Microsoft Visual Studio Code and GitHub Copilot and will retrieve live metadata from the databases.

Contoso identifies the following requirements for querying data in the FeedbackJson column of the CustomerFeedbacktable:

- \* Extract the customer feedback text from the JSON document.
- \* Filter rows where the JSON text contains a keyword.

\* Calculate a fuzzy similarity score between the feedback text and a known issue description.

\* Order the results by similarity score, with the highest score first.

You need to generate embeddings to resolve the issues identified by the analysts. Which column should you use?

- A. SeverityScore
- B. IncidentType
- **C. IncidentDescription**
- D. VehicleLocation

**Answer: C**

Explanation:

Scenario: VehicleIncidentReports often contains details about the weather, traffic conditions, and location. Analysts report that it is difficult to find similar incidents based on these details.

The column you should use to generate embeddings is IncidentDescription.

Why this is the correct choice:

Semantic Meaning: Embeddings are designed to capture the semantic meaning of rich, unstructured text. The IncidentDescription column likely contains the detailed natural language notes about weather, traffic, and location that the analysts are struggling to search effectively using standard methods.

Vector Search: By converting the text in IncidentDescription into mathematical vectors (embeddings), you can perform a semantic vector search. This allows the database to find

"similar" incidents based on the context of the description rather than just matching exact keywords or categories.

Incorrect:

[Not A]

VehicleLocation: Typically contains specific coordinates or addresses which are better handled by spatial data types or exact matching.

[Not C]

IncidentType: Is likely a categorical label (e.g., "Fender Bender", "Multi-car pileup") and too simple for meaningful embedding generation.

[Not D]

SeverityScore: Is a numeric value that represents a magnitude, not a semantic concept.

Reference:

<https://learn.microsoft.com/en-us/sql/t-sql/spatial-geography/spatial-types-geography>

#### **NEW QUESTION # 96**

Which component handles security in Azure SQL?

- A. Azure AI Studio
- B. Azure CDN
- **C. Azure Key Vault**
- D. Azure Functions

**Answer: C**

Explanation:

Azure Key Vault securely stores secrets and keys.

#### **NEW QUESTION # 97**

Which data type is used to store vector embeddings in SQL?

- A. DATE
- B. INT
- **C. VARBINARY / VECTOR**
- D. NVARCHAR

**Answer: C**

Explanation:

Embeddings are stored as arrays or binary/vector types depending on SQL engine support.

### NEW QUESTION # 98

What is the benefit of using embeddings over keyword search?

- A. Context-aware search
- B. Faster deletes
- C. Exact matches only
- D. Smaller storage

**Answer: A**

Explanation:

Embeddings capture semantic meaning, enabling context-based retrieval.

### NEW QUESTION # 99

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