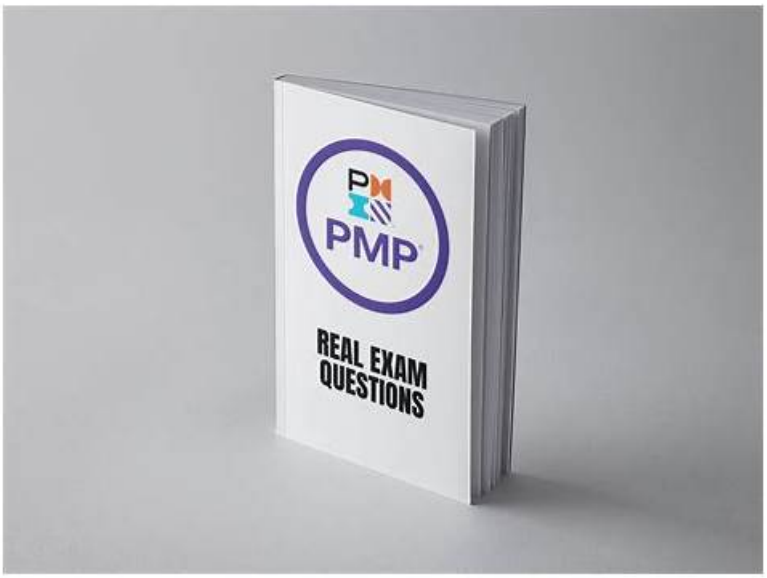
Real Microsoft DP-800 Question | New DP-800 Exam Guide



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>> Real Microsoft DP-800 Question <<

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Microsoft DP-800 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.
Topic 2	• 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.

Topic 3	• 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.

Microsoft Developing AI-Enabled Database Solutions Sample Questions (Q110-Q115):

NEW QUESTION # 110
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.
After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.
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: Build the project by running dotnet build -bl -flp:v=diag.
Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:
Correct:
* Add the Microsoft.SqlServer.Dacpacs.Azure.Master NuGet package to the project.
To resolve system reference errors in an SDK-style SQL project targeting Azure SQL Database, you need to add a reference to the Microsoft.SqlServer.Dacpacs.Azure.Master NuGet package.
In your .sqlproj file, include the following item group:
<ItemGroup>
<PackageReference Include="Microsoft.SqlServer.Dacpacs.Azure.Master" Version="1.60.0" />
</ItemGroup>
Why this works:
System Objects: Standard SDK-style projects don't automatically include system views (like sys.database_principals or sys.dm_db_resource_stats). This package provides the necessary metadata for the compiler.
Azure Specifics: It includes Azure-only system objects that aren't present in the standard master database dacpac used for on-premises SQL Server.
CI/CD Friendly: Since it is a NuGet package, the dotnet build command will automatically restore it during the CI process without requiring manual file paths or local installations of Visual Studio.
Incorrect:
* Add an artifact reference to the Azure SQL Database master.dacpac file.
* Add the Microsoft.SqlServer.Dacpacs.Master NuGet package to the project.
* Build the project by running dotnet build -bl -flp:v=diag.
Reference:
https://learn.microsoft.com/en-us/sql/tools/sql-database-projects/concepts/system-objects

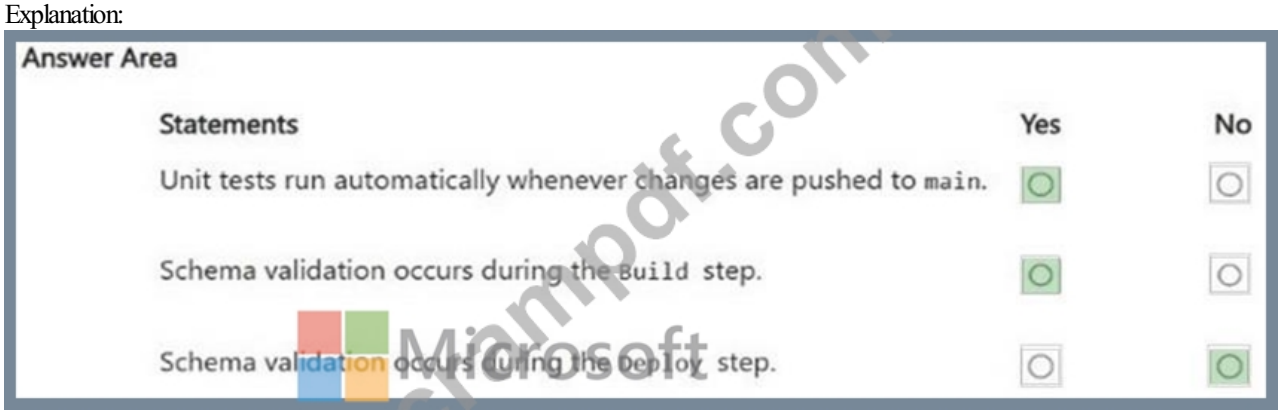
NEW QUESTION # 111
Hotspot Question
You have a database named db1. The schema is stored in a Git repository as an SDK-style SQL database project. The repository contains the following GitHub Action workflow.

```yaml
name: Database CI/CD
on:
  push:
    branches:
      - main
  pull_request:
    branches:
      - main
jobs:
  build-and-deploy:
    runs-on: ubuntu-latest
    steps:
    - name: Checkout code
      uses: actions/checkout@v3
    - name: Setup .NET
      uses: actions/setup-dotnet@v3
      with:
        dotnet-version: '8.x'
    - name: Build
      run: dotnet build db1.sqlproj --configuration Release
    - name: Deploy
      run: |
        SqlPackage /Action:Publish \
        /SourceFile:./bin/Release/db1.dacpac \
         /TargetConnectionString:"${{ secrets.Target_Connection_String }}"
  unit-tests:
    runs-on: ubuntu-latest
    needs: build-and-deploy
    if: github.ref == 'refs/heads/main'
    steps:
    - name: Checkout code
      uses: actions/checkout@v3
    - name: Setup .NET
      uses: actions/setup-dotnet@v3
      with:
        dotnet-version: '8.x'
    - name: Run unit tests
      run: dotnet test UnitTests.csproj --configuration Release
```


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:



NEW QUESTION # 112

Hotspot Question

You have an Azure SQL database that contains a table named stores. stores contains a column named description and a vector column named embedding.

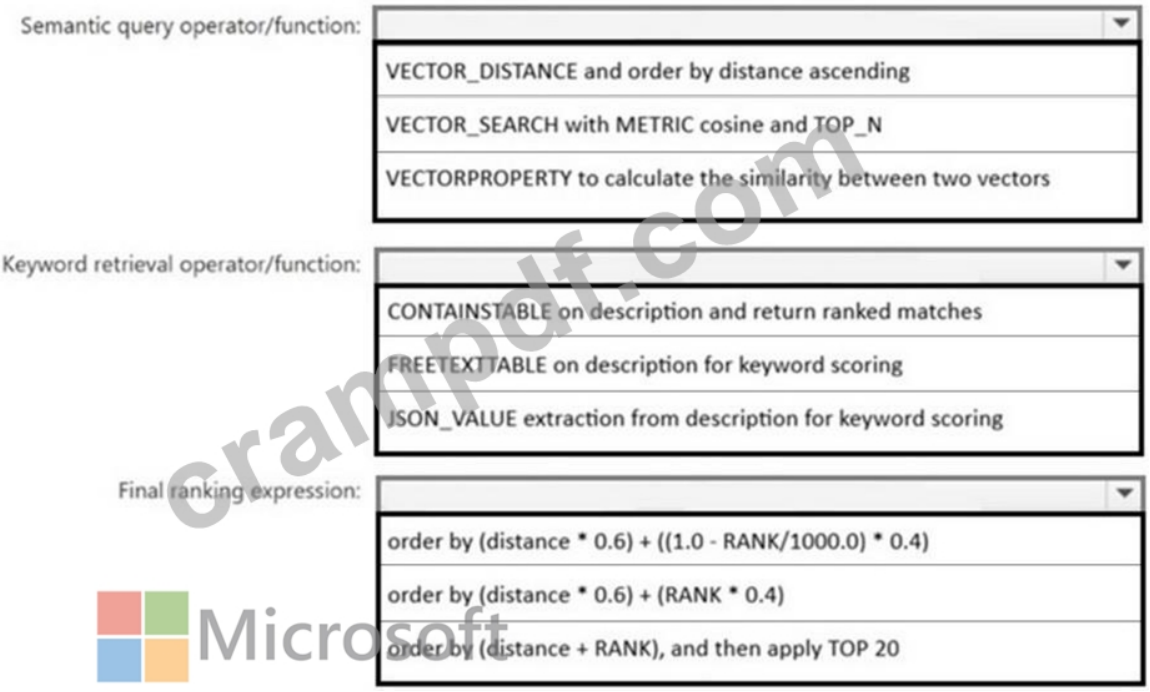
You need to implement a hybrid search query that meets the following requirements:

- Uses full-text search on description for the keyword portion
- Returns the top 20 results based on a combined score that uses a weighted formula of 60% vector distance and 40% full-text rank

How should you configure the query components? To answer, select the appropriate options in the answer area.

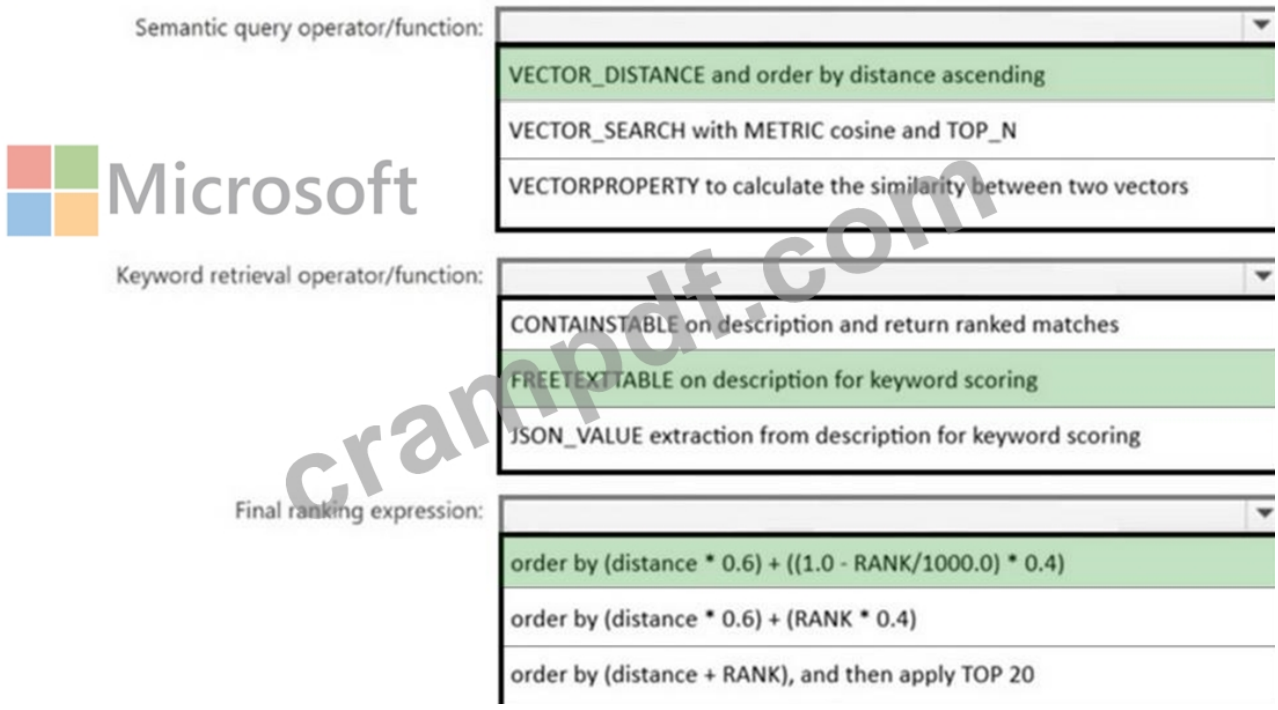
NOTE: Each correct selection is worth one point.

Answer Area



Answer:

Explanation:



NEW QUESTION # 113
Which SQL feature is commonly used to integrate AI-generated insights?

- A. Stored Procedures
- B. Triggers
- C. Views
- D. External APIs

Answer: D

Explanation:
AI models (like OpenAI) are typically accessed via APIs, which SQL apps call externally.

NEW QUESTION # 114
You need to create a table in the database to store the telemetry data. You have the following Transact-SQL code.

```
TelemetryId BIGINT IDENTITY(1,1) NOT NULL,
VehicleId NVARCHAR(50) NOT NULL,
TelemetryTimeUtc DATETIME2(3) NOT NULL,
BatteryPercent TINYINT NULL,
SpeedKmh SMALLINT NULL,
LocationJson JSON NULL,
ErrorCodesJson JSON NULL,
RawPayload NVARCHAR(MAX) NULL,
SysStartTime DATETIME2(7) GENERATED ALWAYS AS ROW START NOT NULL,
SysEndTime DATETIME2(7) GENERATED ALWAYS AS ROW END NOT NULL,
PERIOD FOR SYSTEM_TIME (SysStartTime, SysEndTime),
CONSTRAINT PK_VehicleTelemetry PRIMARY KEY CLUSTERED (TelemetryId)

ITH

SYSTEM_VERSIONING = ON
(
  HISTORY_TABLE = dbo.VehicleTelemetryHistory
)
;
)
REATE INDEX IX_VehicleTelemetry_Time ON dbo.VehicleTelemetry (TelemetryTimeUtc);
REATE JSON INDEX JI_VehicleTelemetry_Location ON dbo.VehicleTelemetry (LocationJson) FO

'$.location.latitude',  '$.location.longitude',
'$.location.accuracy'
```

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 # 115
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