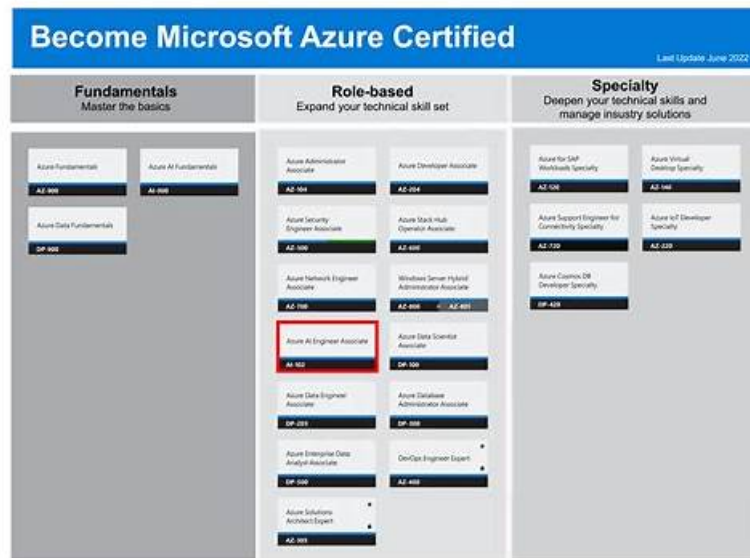


# 2026 AI-102: Designing and Implementing a Microsoft Azure AI Solution—Reliable Practice Exams Free



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To pass the exam, candidates must demonstrate their ability to design and implement AI solutions that meet specific business requirements. They must also be proficient in using Azure services to build intelligent applications that can process natural language, recognize images and speech, and make predictions based on data. Additionally, they must have a clear understanding of how to train and evaluate machine learning models, and how to deploy these models in production environments.

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## Microsoft Designing and Implementing a Microsoft Azure AI Solution Sample Questions (Q42-Q47):

### NEW QUESTION # 42

You are building an app that will perform translations by using the Azure AI Translator service.

You need to ensure that the app will translate user-inputted text.

How should you complete the code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

```

Answer Area

while (true)
{
    Console.WriteLine("Enter text to translate or 'exit':");
    string input = Console.ReadLine();
    if (input.ToLower() == "exit") break;
    Response<IReadOnlyList<TranslatedTextItem>> translationResponse =
await client.TranslateAsync
    TranslateAsync(targetLanguage, input)
    Translate(targetLanguage, input)
    TranslateAsync(targetLanguage, input)
    TranslationRecognizer)
    .ConfigureAwait(false);

    IReadOnlyList<TranslatedTextItem> translations = translationResponse.Value;
    TranslatedTextItem translation = translations[0];
    string sourceLanguage = translation?.DetectedLanguage?.Language;
    Console.WriteLine($"'{input}' translated from {sourceLanguage} to {translation?.Translations[0].To} as
}
    (translation?.Translations?[0]?.Text).";
    translations.Value.");
    translations[0].text.");
    (Translations.Text).";
    (translation?.Translations?[0]?.Text).";
}

```

**Answer:**

**Explanation:**

```

Answer Area

while (true)
{
    Console.WriteLine("Enter text to translate or 'exit':");
    string input = Console.ReadLine();
    if (input.ToLower() == "exit") break;
    Response<IReadOnlyList<TranslatedTextItem>> translationResponse =
await client.TranslateAsync
    TranslateAsync(targetLanguage, input)
    Translate(targetLanguage, input)
    TranslateAsync(targetLanguage, input)
    TranslationRecognizer)
    .ConfigureAwait(false);

    IReadOnlyList<TranslatedTextItem> translations = translationResponse.Value;
    TranslatedTextItem translation = translations[0];
    string sourceLanguage = translation?.DetectedLanguage?.Language;
    Console.WriteLine($"'{input}' translated from {sourceLanguage} to {translation?.Translations[0].To} as
}
    (translation?.Translations?[0]?.Text).";
    translations.Value.");
    translations[0].text.");
    (Translations.Text).";
    (translation?.Translations?[0]?.Text).";
}

```

**Explanation:**

```

Answer Area

while (true)
{
    Console.WriteLine("Enter text to translate or 'exit':");
    string input = Console.ReadLine();
    if (input.ToLower() == "exit") break;
    Response<IReadOnlyList<TranslatedTextItem>> translationResponse =
await client.TranslateAsync
    TranslateAsync(targetLanguage, input)
    Translate(targetLanguage, input)
    TranslateAsync(targetLanguage, input)
    TranslationRecognizer)
    .ConfigureAwait(false);

    IReadOnlyList<TranslatedTextItem> translations = translationResponse.Value;
    TranslatedTextItem translation = translations[0];
    string sourceLanguage = translation?.DetectedLanguage?.Language;
    Console.WriteLine($"'{input}' translated from {sourceLanguage} to {translation?.Translations[0].To} as
}
    (translation?.Translations?[0]?.Text).";
}

```

In the Azure AI Translator .NET SDK ( Azure.AI.Translation.Text ), the TextTranslationClient exposes TranslateAsync overloads that accept a target language (e.g., "fr") and an input string to translate. The call returns a Response < IReadOnlyList <

TranslatedTextItem>> . Each TranslatedTextItem includes the automatically detected source language ( DetectedLanguage.Language ) and a collection of translations in Translations . To print the translated text for the first target language, read translation.Translations[0].Text .

Therefore:

Use TranslateAsync(targetLanguage, input) to perform the translation.

Output translation.Translations[0].Text to display the translated result.

Microsoft References

TextTranslationClient.TranslateAsync method (overloads, usage). Microsoft Learn TextTranslationClient class overview. Microsoft Learn TranslatedTextItem model and Translations property (array of translation results).

Quickstart: Translator text client libraries (end-to-end usage pattern). Microsoft Learn

### NEW QUESTION # 43

You have the following files:

- \* File1.pdf
- \* File2.jpg
- \* File3.docx
- \* File4.webp
- \* File5.png

Which files can you analyze by using Azure AI Content Understanding?

- A. File1.pdf, File2.jpg, File3.docx, File4.webp, and File5.png
- B. File1.pdf, File2.jpg, and File3.docx only
- C. File1.pdf, File2.jpg, and File5.png only
- D. File1.pdf, File2.jpg, File3.docx and File5.png only
- E. File1.pdf and File3.docx only

Answer: D

### NEW QUESTION # 44

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	Statements	Yes	No
		Normalization involves eliminating relationships between database tables.	<input type="radio"/>	<input type="radio"/>
		Normalizing a database reduces data redundancy.	<input type="radio"/>	<input type="radio"/>
		Normalization improves data integrity.	<input type="radio"/>	<input type="radio"/>

Answer:

Explanation:

Answer Area	Microsoft	Statements	Yes	No
		Normalization involves eliminating relationships between database tables.	<input type="radio"/>	<input checked="" type="radio"/>
		Normalizing a database reduces data redundancy.	<input checked="" type="radio"/>	<input type="radio"/>
		Normalization improves data integrity.	<input checked="" type="radio"/>	<input type="radio"/>

Explanation:

Answer Area	Microsoft	Statements	Yes	No
		Normalization involves eliminating relationships between database tables.	<input type="radio"/>	<input checked="" type="radio"/>
		Normalizing a database reduces data redundancy.	<input checked="" type="radio"/>	<input type="radio"/>
		Normalization improves data integrity.	<input checked="" type="radio"/>	<input type="radio"/>

### NEW QUESTION # 45

Select the answer that correctly completes the sentence.

Answer Area

A relational database is appropriate for scenarios that involve a high volume of

changes to relationships between entities.  
geographically distributed writes.  
transactional writes.  
writes that have varying data structures.

Answer:

Explanation:

Answer Area

A relational database is appropriate for scenarios that involve a high volume of

changes to relationships between entities.  
geographically distributed writes.  
transactional writes.  
writes that have varying data structures.

Explanation:

Answer Area

A relational database is appropriate for scenarios that involve a high volume of

Comprehensive Detailed Explanation Relational databases (such as Azure SQL Database, SQL Server, or Azure Database for PostgreSQL) are designed for structured data and ACID-compliant transactions.

Let's analyze the options:

- \* Changes to relationships between entities
- \* While relational databases do handle relationships (via primary/foreign keys), this phrase alone does not describe the core usage scenario for "high volume."
- \* Geographically distributed writes
- \* This is better suited to NoSQL databases (e.g., Azure Cosmos DB) because they are optimized for global distribution and multi-region writes.
- \* Transactional writes
- \* Correct.
- \* Relational databases excel at handling large volumes of transactional operations (INSERT, UPDATE, DELETE) while ensuring consistency, integrity, and rollback capabilities.
- \* This is the primary workload for OLTP (Online Transaction Processing) systems.
- \* Writes that have varying data structures
- \* This is a use case for NoSQL/document databases like MongoDB or Azure Cosmos DB, not relational systems which require structured schema.

The answer: Transactional writes

- \* Azure SQL Database - transactional processing
- \* Data store considerations: relational vs non-relational
- \* OLTP vs OLAP

Microsoft References

### NEW QUESTION # 46

You have an existing Azure Cognitive Search service.

You have an Azure Blob storage account that contains millions of scanned documents stored as images and PDFs.

You need to make the scanned documents available to search as quickly as possible. What should you do?

- A. Split the data into multiple virtual folders. Create an indexer for each folder. Increase the search units. Within each indexer definition, schedule the same runtime execution pattern.
- B. Create a Cognitive Search service for each type of document.
- C. Split the data into multiple blob containers. Create an indexer for each container. Increase the search units. Within each indexer definition, schedule a sequential execution pattern.
- D. Split the data into multiple blob containers. Create a Cognitive Search service for each container. Within each indexer definition, schedule the same runtime execution pattern.

Answer: A

Explanation:

To index millions of PDFs/images quickly:

- \* Partition the blob data into virtual folders (prefixes) and create multiple indexers, one per folder, so they can run in parallel.
- \* Increase search units (SUs) to raise indexing throughput.

- \* Schedule the indexers with the same cadence so they run concurrently. Creating multiple services (A, C) is unnecessary and costly. Scheduling sequential execution (B) defeats the goal of "as quickly as possible." References
- \* Azure Cognitive Search indexer performance guidance: parallelizing blob indexing using multiple indexers over virtual folders/prefixes and scaling SUs for higher throughput.

## NEW QUESTION # 47

.....

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