AI-102Q&As

Designing and Implementing a Microsoft Azure AI Solution

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QUESTION 1

What should you use to build a Microsoft Power Bi paginated report?

A. Power BI Report Builder

B. Charciculator

C. Power BI Desktop

D. the Power BI service

Correct Answer: A

QUESTION 2

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 build a language model by using a Language Understanding service. The language model is used to search for information on a contact list by using an intent named FindContact.

A conversational expert provides you with the following list of phrases to use for training.

Find contacts in London.

Who do I know in Seattle? Search for contacts in Ukraine.

You need to implement the phrase list in Language Understanding.

Solution: You create a new entity for the domain.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

The model should have an Entity "Location" that will help in finding the contacts. Reference: https://docs.microsoft.com/en-us/azure/cognitive-services/luis/luis-concept-intent

QUESTION 3

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.

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You create a web app named app1 that runs on an Azure virtual machine named vm1.

Vm1 is on an Azure virtual network named vnet1.

You plan to create a new Azure Cognitive Search service named service1.

You need to ensure that app1 can connect directly to service1 without routing traffic over the public internet.

Solution: You deploy service1 and a public endpoint to a new virtual network, and you configure Azure Private Link.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Reference:

https://docs.microsoft.com/en-us/azure/cognitive-services/cognitive-services-virtual- networks?tabs=portal#use-private-endpoints

QUESTION 4

You have the following data sources:

Finance: On-premises Microsoft SQL Server database Sales: Azure Cosmos DB using the Core (SQL) API Logs: Azure Table storage HR: Azure SQL database

You need to ensure that you can search all the data by using the Azure Cognitive Search REST API. What should you do?

A. Configure multiple read replicas for the data in Sales.

B. Mirror Finance to an Azure SQL database.

C. Migrate the data in Sales to the MongoDB API.

D. Ingest the data in Logs into Azure Sentinel.

Correct Answer: B

On-premises Microsoft SQL Server database cannot be used as an index data source.

Note: Indexer in Azure Cognitive Search: : Automate aspects of an indexing operation by configuring a data source and an indexer that you can schedule or run on demand. This feature is supported for a limited number of data source types on Azure.

Indexers crawl data stores on Azure. Azure Blob Storage Azure Data Lake Storage Gen2 (in preview) Azure Table Storage Azure Cosmos DB Azure SQL Database SQL Managed Instance SQL Server on Azure Virtual Machines

Reference: https://docs.microsoft.com/en-us/azure/search/search-indexer-overview#supported-data-sources

QUESTION 5

You use the Microsoft Bot Framework Composer to build a chatbot that enables users to purchase items.

You need to ensure that the users can cancel in-progress transactions. The solution must minimize development effort.

What should you add to the bot?

A. a language generator

B. a custom event

C. a dialog trigger

D. a conversation activity

Correct Answer: C

https://learn.microsoft.com/en-us/composer/concept-events-and-triggers?tabs=v2x In Bot Framework Composer, each dialog includes one or more event handlers called triggers. Each trigger contains one or more actions. Actions are the instructions that the bot will execute when the dialog receives any event that it has a trigger defined to handle. Once a given event is handled by a trigger, no further action is taken on that event. Some event handlers have a condition specified that must be met before it will handle the event and if that condition isn\\'t met, the event is passed to the next event handler. If an event isn\\'t handled in a child dialog, it gets passed up to its parent dialog to handle and this continues until it\\'s either handled or reaches the bots main dialog. If no event handler is found, it will be ignored and no action will be taken.

QUESTION 6

You have a SQL query that combines customer data and order data. The query includes calculated columns. You need to create a database object that would allow other users to rerun the same SOL query. What should you create?

A. an Index

B. a view

C. a scalar function

D. a table

Correct Answer: B

QUESTION 7

You are building a flight booking bot by using the Microsoft Bot Framework SDK.

The bot will ask users for the departure date. The bot must repeat the question until a valid date is given, or the users cancel the transaction.

Which type of dialog should you use?

A. prompt

B. adaptive

C. waterfall

D. action

Correct Answer: A

https://learn.microsoft.com/en-us/azure/bot-service/bot-builder-concept-dialog?view=azure-bot-service-4.0#dialog-types
The dialogs library provides a few types of dialogs to make your bot\\'s conversations easier to manage.

-prompt dialogs

Ask the user for input and return the result. A prompt will repeat until it gets valid input or it\\'s canceled. They\\'re designed to work with waterfall dialogs.

QUESTION 8

DRAG DROP

You have 100 chatbots that each has its own Language Understanding model.

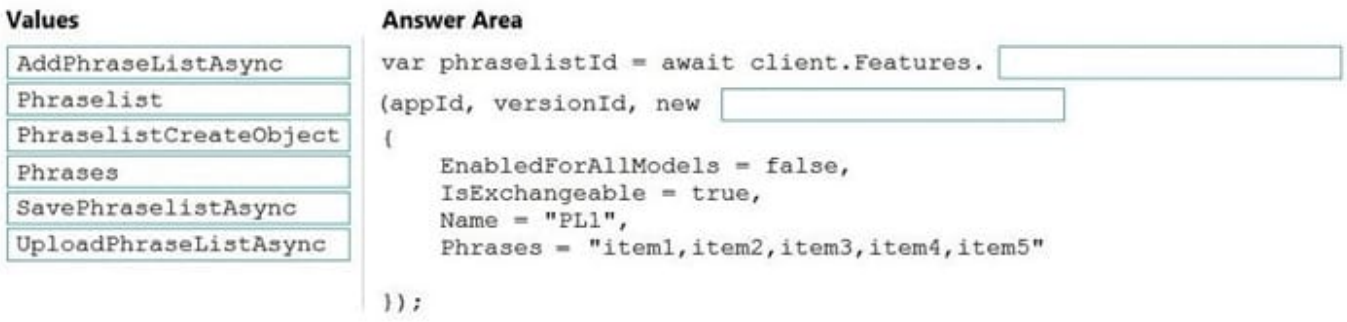
Frequently, you must add the same phrases to each model.

You need to programmatically update the Language Understanding models to include the new phrases.

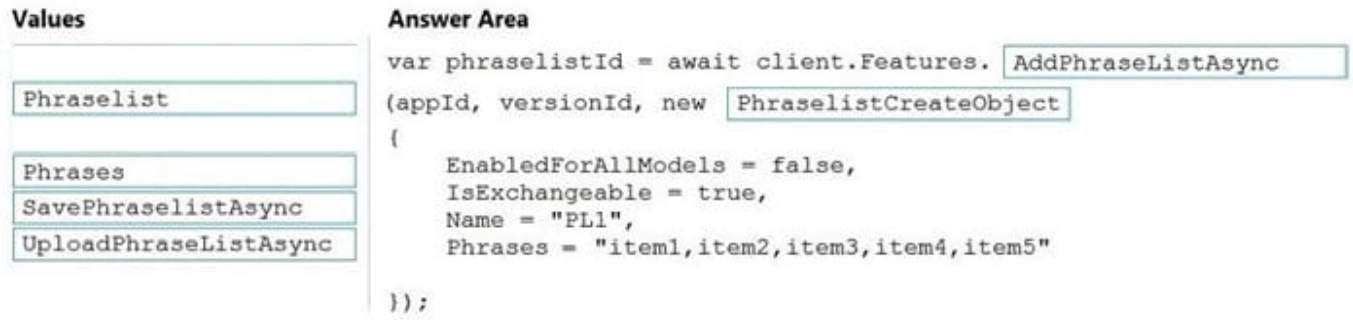
How should you complete the code? To answer, drag the appropriate values to the correct targets. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:



Correct Answer:



Box 1: AddPhraseListAsync Example: Add phraselist feature

var phraselistId = await client.Features.AddPhraseListAsync(appId, versionId, new PhraselistCreateObject

{ EnabledForAllModels = false, IsExchangeable = true, Name = "QuantityPhraselist", Phrases = "few,more,extra"

});

Box 2: PhraselistCreateObject

Reference: https://docs.microsoft.com/en-us/azure/cognitive-services/luis/client-libraries-rest-api

QUESTION 9

You have the following C# method.

```
static void create_resource(string resource_name, string kind, string account_tier, string location)
{
    CognitiveServicesAccount parameters =
        new CognitiveServicesAccount(null, null, kind, location, resource_name,
        new CognitiveServicesAccountProperties(), new Sku(account_tier));
    var result = cog_svc_client.Accounts.Create(resource_group_name, account_tier, parameters);
}
```

You need to deploy an Azure resource to the East US Azure region. The resource will be used to perform sentiment analysis. How should you call the method?

A. create_resource("res1", "ContentModerator", "S0", "eastus")

B. create_resource("res1", "TextAnalytics", "S0", "eastus")

C. create_resource("res1", "ContentModerator", "Standard", "East US")

D. create_resource("res1", "TextAnalytics", "Standard", "East US")

Correct Answer: B

To perform sentiment analysis, we specify TextAnalytics, not ContentModerator.

Possible SKU names include: \\'F0\\',\\'F1\\',\\'S0\\',\\'S1\\',\\'S2\\',\\'S3\\',\\'S4\\',\\'S5\\',\\'S6\\',\\'S7\\',\\'S8\\'

Possible location names include: westus, eastus

Reference:

https://docs.microsoft.com/en-us/powershell/module/az.cognitiveservices/new-azcognitiveservicesaccount

QUESTION 10

You train a Conversational Language Understanding model to understand the natural language input of users.

You need to evaluate the accuracy of the model before deploying it.

What are two methods you can use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. From the language authoring REST endpoint, retrieve the model evaluation summary.

B. From Language Studio, enable Active Learning, and then validate the utterances logged for review.

C. From Language Studio, select Model performance.

D. From the Azure portal, enable log collection in Log Analytics, and then analyze the logs.

Correct Answer: AC

QUESTION 11

HOTSPOT

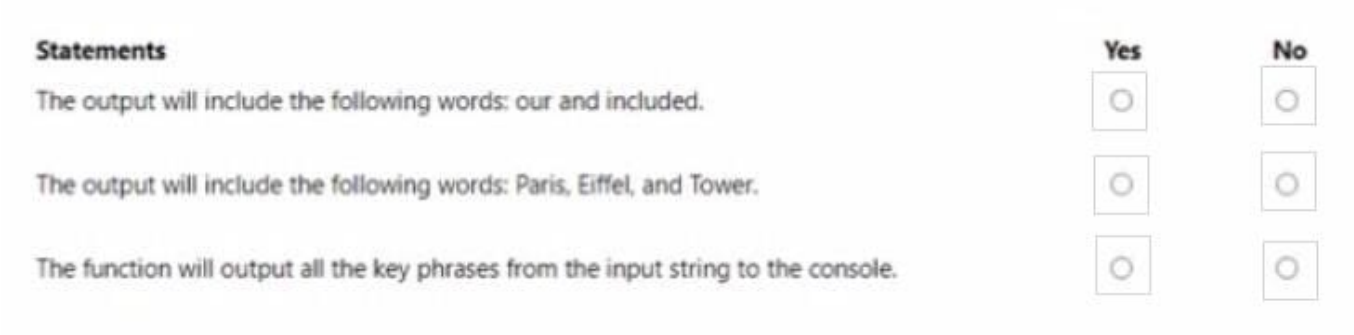
You are developing a text processing solution.

You have the function shown below.

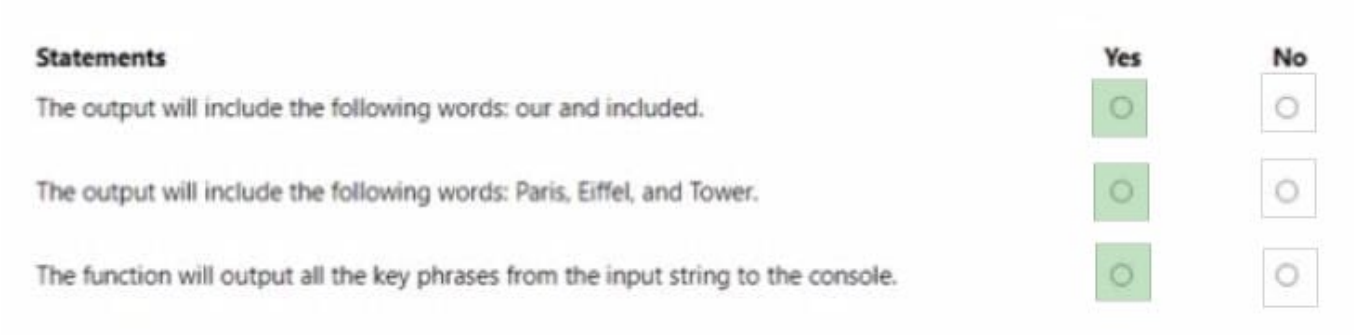
```
static void GetKeyWords(TextAnalyticsClient textAnalyticsClient, string text)
{
    var response = textAnalyticsClient.RecognizeEntities (text);
    Console.WriteLine("Key words:");

    foreach (CategorizedEntity entity in response.Value)
    {
        Console.WriteLine($"\t{entity.Text}");
```

Hot Area:



Correct Answer:



QUESTION 12

You are building a chatbot that will use question answering in Azure Cognitive Service for Language.

You have a PDF named Doc1.pdf that contains a product catalogue and a price list.

You upload Doc1.pdf and train the model.

During testing, users report that the chatbot responds correctly to the following question: What is the price of ?

The chatbot fails to respond to the following question: How much does cost?

You need to ensure that the chatbot responds correctly to both questions.

Solution: From Language Studio, you add alternative phrasing to the question and answer pair, and then retrain and republish the model.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

https://learn.microsoft.com/en-us/azure/ai-services/language-service/question-answering/concepts/best-practices#when-should-you-add-alternate-questions-to-question-and-answer-pairs

QUESTION 13

HOTSPOT

You are developing the knowledgebase by using Azure Cognitive Search.

You need to build a skill that will be used by indexers.

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

NOTE: Each correct selection is worth one point.

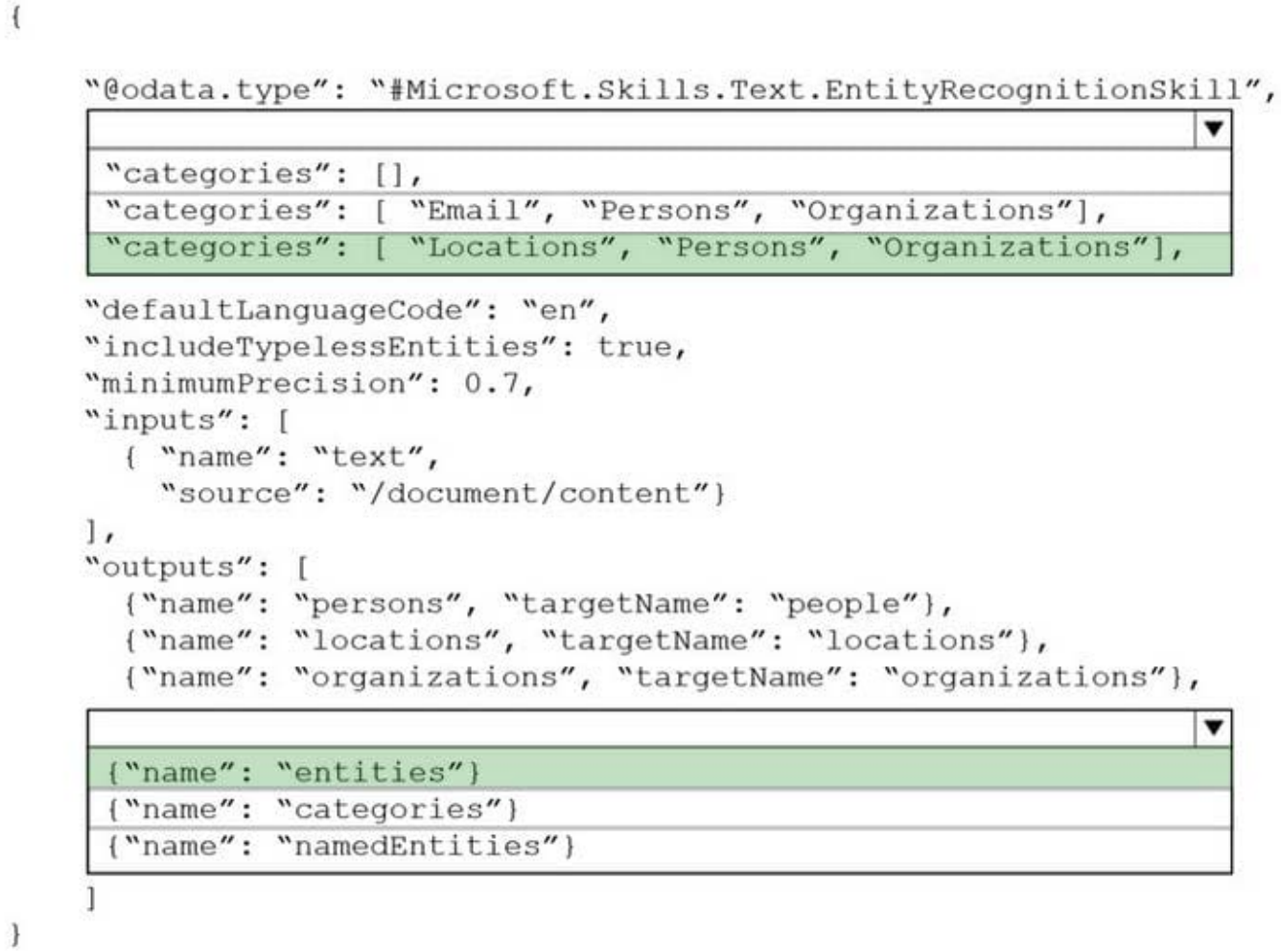
Hot Area:

Answer Area

```
{
    "@odata.type": "#Microsoft.Skills.Text.EntityRecognitionSkill",
    [ "categories": [],
      "categories": [ "Email", "Persons", "Organizations"],
      "categories": [ "Locations", "Persons", "Organizations"], ]
    "defaultLanguageCode": "en",
    "includeTypelessEntities": true,
    "minimumPrecision": 0.7,
    "inputs": [
      { "name": "text",
        "source": "/document/content"}
    ],
    "outputs": [
      {"name": "persons", "targetName": "people"},
      {"name": "locations", "targetName": "locations"},
      {"name": "organizations", "targetName": "organizations"},
    [ {"name": "entities"}
      {"name": "categories"}
      {"name": "namedEntities"} ]
    ]
}
```

Correct Answer:

Answer Area



Box 1: "categories": ["Locations", "Persons", "Organizations"],

Locations, Persons, Organizations are in the outputs.

Scenario: Contoso plans to develop a searchable knowledgebase of all the intellectual property

Note: The categories parameter is an array of categories that should be extracted. Possible category types: "Person", "Location", "Organization", "Quantity", "Datetime", "URL", "Email". If no category is provided, all types are returned.

Box 2: {"name": " entities"}

The include wikis, so should include entities in the outputs.

Note: entities is an array of complex types that contains rich information about the entities extracted from text, with the following fields

name (the actual entity name. This represents a "normalized" form)

wikipediaId

wikipediaLanguage

wikipediaUrl (a link to Wikipedia page for the entity)

etc.

Reference:

https://docs.microsoft.com/en-us/azure/search/cognitive-search-skill-entity-recognition

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etc.

Reference:

QUESTION 14

You have an Azure loT hub that receives series data from machinery. You need to build an app that will perform the following actions:

1.

Perform anomaly detection across multiple correlated sensors

2.

Identify the root cause of process stops.

3.

Send incident alerts

The solution must minimize development time. Which Azure service should you use?

A. Azure Metrics Advisor

B. Form Recognizer

C. Azure Machine teaming

D. Anomaly Detector

Correct Answer: A

QUESTION 15

You are developing the chatbot.

You create the following components:

1.

A QnA Maker resource

2.

A chatbot by using the Azure Bot Framework SDK

You need to integrate the components to meet the chatbot requirements.

Which property should you use?

A. QnAMakerOptions.StrictFilters

B. QnADialogResponseOptions.CardNoMatchText

C. QnAMakerOptions.RankerType

D. QnAMakerOptions.ScoreThreshold

Correct Answer: D

Technical Requirements says "AI solution responses must have a confidence score that is equal to or greater than 70 percent" and "When the response confidence score is low, ensure that the chatbot can provide other response options to the customers" https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/concepts/confidence-score#set-threshold