DP-100^{Q&As}

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Designing and Implementing a Data Science Solution on Azure

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QUESTION 1

HOTSPOT

You create an Azure Machine Learning workspace. You use the Azure Machine Learning SDK for Python.
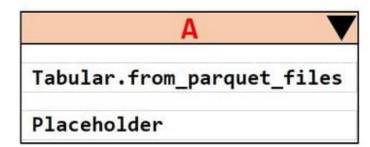
You must create a dataset from remote paths. The dataset must be reusable within the workspace.

You need to create the dataset.

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

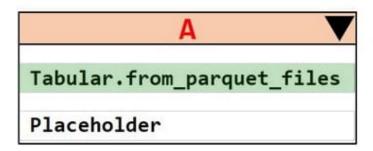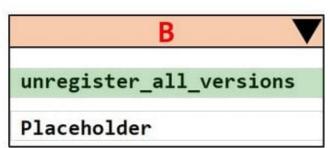NOTE: Each correct selection is worth one point.

Hot Area:

```
from azureml.core import Dataset
from azureml.data.dataset_factory import DataType
web_paths = ['https://domain.blob.core.windows.net/demo/dataset1.tsv',
  'https://domain.blob.core.windows.net/demo/dataset2.tsv']

ds = Dataset.         A          (path=web_paths)
ds = ds.         B          (workspace=workspace,
                  name='ds',
                  description='training data')
```

A ▼
Tabular.from_parquet_files
Placeholder

B ▼
unregister_all_versions
Placeholder

Correct Answer:

```
from azureml.core import Dataset
from azureml.data.dataset_factory import DataType
web_paths = ['https://domain.blob.core.windows.net/demo/dataset1.tsv',
 'https://domain.blob.core.windows.net/demo/dataset2.tsv']

ds = Dataset.          A          ▼   (path=web_paths)
ds = ds.          B          ▼   (workspace=workspace,
                name='ds',
                description='training data')
```

A ▼
Tabular.from_parquet_files
Placeholder

B ▼
unregister_all_versions
Placeholder

QUESTION 2

You create a binary classification model. The model is registered in an Azure Machine Learning workspace. You use the Azure Machine Learning Fairness SDK to assess the model fairness.

You develop a training script for the model on a local machine.

You need to load the model fairness metrics into Azure Machine Learning studio.

What should you do?

A. Implement the download_dashboard_by_upload_idfunction

B. Implement the create_group_metric_setfunction

C. Implement the upload_dashboard_dictionaryfunction

D. Upload the training script

Correct Answer: C

import azureml.contrib.fairness package to perform the upload:

from azureml.contrib.fairness import upload_dashboard_dictionary, download_dashboard_by_upload_id

Reference:

https://docs.microsoft.com/en-us/azure/machine-learning/how-to-machine-learning-fairness-aml

QUESTION 3

You use Azure Machine Learning designer to create a training pipeline for a regression model.

You need to prepare the pipeline for deployment as an endpoint that generates predictions asynchronously for a dataset of input data values.

What should you do?

A. Clone the training pipeline.

B. Create a batch inference pipeline from the training pipeline.

C. Create a real-time inference pipeline from the training pipeline.

D. Replace the dataset in the training pipeline with an Enter Data Manually module.

Correct Answer: C

You must first convert the training pipeline into a real-time inference pipeline. This process removes training modules and adds web service inputs and outputs to handle requests. Incorrect Answers:

A: Use the Enter Data Manually module to create a small dataset by typing values.

Reference: https://docs.microsoft.com/en-us/azure/machine-learning/tutorial-designer-automobile-price-deploy https://docs.microsoft.com/en-us/azure/machine-learning/algorithm-module-reference/enter-data-manually

QUESTION 4

You train and register a machine learning model. You create a batch inference pipeline that uses the model to generate predictions from multiple data files.

You must publish the batch inference pipeline as a service that can be scheduled to run every night.

You need to select an appropriate compute target for the inference service.

Which compute target should you use?

A. Azure Machine Learning compute instance

B. Azure Machine Learning compute cluster

C. Azure Kubernetes Service (AKS)-based inference cluster

D. Azure Container Instance (ACI) compute target

Correct Answer: B

Azure Machine Learning compute clusters is used for Batch inference. Run batch scoring on serverless compute. Supports normal and low-priority VMs. No support for real-time inference.

Reference: https://docs.microsoft.com/en-us/azure/machine-learning/concept-compute-target

QUESTION 5

You make use of Azure Machine Learning Studio to create a binary classification model.

You are preparing to carry out a parameter sweep of the model to tune hyperparameters. You have to make sure that the sweep allows for every possible combination of hyperparameters to be iterated. Also, the computing resources needed

to carry out the sweep must be reduced.

Which of the following actions should you take?

A. You should consider making use of the Selective grid sweep mode.

B. You should consider making use of the Measured grid sweep mode.

C. You should consider making use of the Entire grid sweep mode.

D. You should consider making use of the Random grid sweep mode.

Correct Answer: D

Maximum number of runs on random grid: This option also controls the number of iterations over a random sampling of parameter values, but the values are not generated randomly from the specified range; instead, a matrix is created of all possible combinations of parameter values and a random sampling is taken over the matrix. This method is more efficient and less prone to regional oversampling or undersampling.

If you are training a model that supports an integrated parameter sweep, you can also set a range of seed values to use and iterate over the random seeds as well. This is optional, but can be useful for avoiding bias introduced by seed selection.

C: Entire grid: When you select this option, the module loops over a grid predefined by the system, to try different combinations and identify the best learner. This option is useful for cases where you don\\'t know what the best parameter settings might be and want to try all possible combination of values.

Reference: https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/tune-model-hyperparameters

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