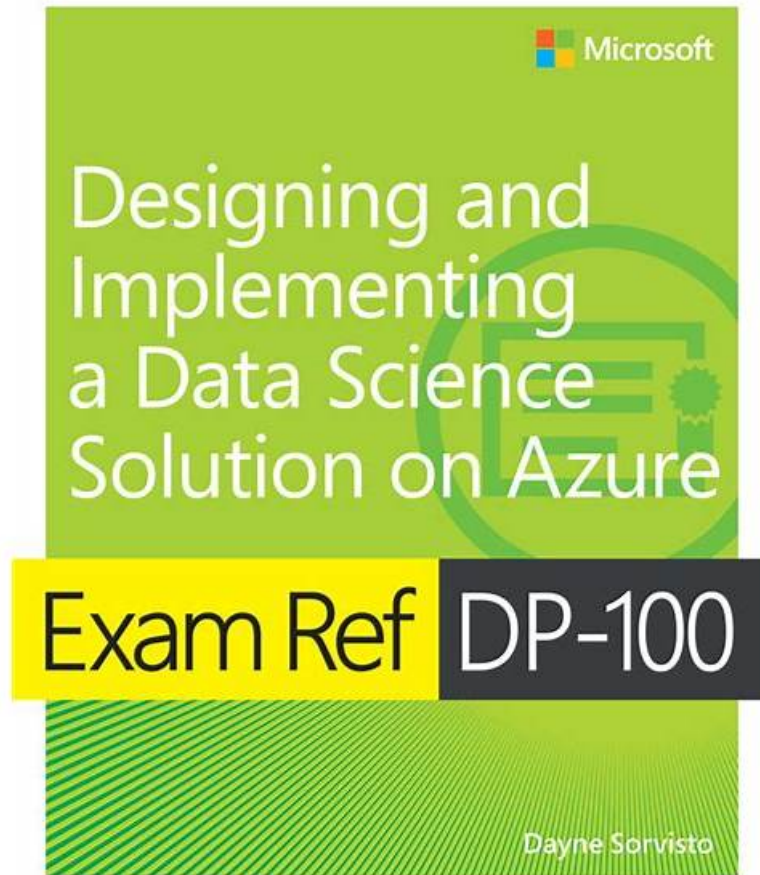


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The DP-100 exam covers a range of topics, including data exploration and transformation, machine learning modeling, and deployment and management of machine learning models on Azure. DP-100 exam also focuses on the candidate's ability to work with Azure services such as Azure Machine Learning Studio, Azure Databricks, and Azure Cognitive Services. Successful candidates will have a deep understanding of the Azure platform and its capabilities, as well as the ability to design and implement data science solutions that meet business requirements.

Microsoft DP-100: Designing and Implementing a Data Science Solution on Azure exam is a valuable certification for individuals who want to showcase their expertise in data science and Azure technologies. DP-100 Exam evaluates the candidate's ability to design and implement data solutions using Azure cloud technologies and is beneficial for individuals who want to pursue a career in data science.

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Microsoft Designing and Implementing a Data Science Solution on Azure Sample Questions (Q109-Q114):

NEW QUESTION # 109

You use the Azure Machine Learning designer to create and run a training pipeline.
The pipeline must be run every night to inference predictions from a large volume of files. The folder where the files will be stored is defined as a dataset.
You need to publish the pipeline as a REST service that can be used for the nightly inferencing run.
What should you do?

- A. Create a batch inference pipeline
- B. Set the compute target for the pipeline to an inference cluster
- C. Clone the pipeline
- D. Create a real-time inference pipeline

Answer: A

Explanation:

Azure Machine Learning Batch Inference targets large inference jobs that are not time-sensitive. Batch Inference provides cost-effective inference compute scaling, with unparalleled throughput for asynchronous applications. It is optimized for high-throughput, fire-and-forget inference over large collections of data.

You can submit a batch inference job by pipeline_run, or through REST calls with a published pipeline.

Reference:

<https://github.com/Azure/MachineLearningNotebooks/blob/master/how-to-use-azureml/machine-learning-pipelines/parallel-run/README.md>

NEW QUESTION # 110

You use the Azure Machine learning SDK v2 for Python and notebooks to train a model. You use Python code to create a compute target, an environment, and a training script. You need to prepare information to submit a training job.
Which class should you use?

- A. BuildContext
- B. MLCClient
- C. EndpointConnection
- D. command

Answer: D

NEW QUESTION # 111

```
from azureml.core import Run
import pandas as pd

run = Run.get_context()
data = pd.read_csv('./data.csv')
rows = (len(data))
# record row_count metric here
...
```

You need to record the row count as a metric named row_count that can be returned using the get_metrics method of the Run object after the experiment run completes. Which code should you use?

- A. run.log('row_count', rows)

- B. `run.log_row('row_count', rows)`
- C. `run.tag('row_count', rows)`
- D. `run.log_table('row_count', rows)`
- E. `run.upload_file('row_count', './data.csv')`

Answer: A

Explanation:

Log a numerical or string value to the run with the given name using `log(name, value, description=)`.

Logging a metric to a run causes that metric to be stored in the run record in the experiment. You can log the same metric multiple times within a run, the result being considered a vector of that metric.

Example: `run.log("accuracy", 0.95)`

Reference:

<https://docs.microsoft.com/en-us/python/api/azureml-core/azureml.core.run>

NEW QUESTION # 112

You create a new Azure Machine Learning workspace with a compute cluster.

You need to create the compute cluster asynchronously by using the Azure Machine Learning Python SDK v2.

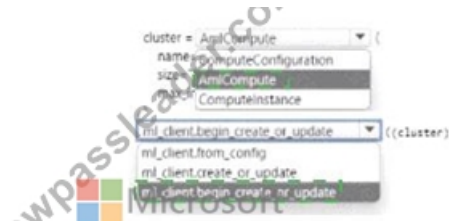
How should you complete the code segment? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point



Answer:

Explanation:



Explanation:



NEW QUESTION # 113

You have a Python data frame named `salesData` in the following format:

The data frame must be unpivoted to a long data format as follows:

You need to use the `pandas.melt()` function in Python to perform the transformation.

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

NOTE: Each correct selection is worth one point.

Answer Area

```
import pandas as pd
salesData = pd.melt(
```

dataFrame	shop	'shop'
pandas	year	'year'
salesData	value	['year']
year	Shop X, Shop Y, Shop Z	['2017', '2018']

```
)
```

Answer:

Explanation:

Answer Area

```
import pandas as pd
salesData = pd.melt(
```

dataFrame	shop	'shop'
pandas	year	'year'
salesData	value	['year']
year	Shop X, Shop Y, Shop Z	['2017', '2018']

```
)
```

Explanation

```
import pandas as pd
salesData = pd.melt(
```

dataFrame	shop	'shop'
pandas	year	'year'
salesData	value	['year']
year	Shop X, Shop Y, Shop Z	['2017', '2018']

```
)
```

Box 1: dataFrame

Syntax: pandas.melt(frame, id_vars=None, value_vars=None, var_name=None, value_name='value', col_level=None)[source]

Where frame is a DataFrame Box 2: shop Paramter id_vars id_vars : tuple, list, or ndarray, optional Column(s) to use as identifier variables.

Box 3: ['2017','2018']

value_vars : tuple, list, or ndarray, optional

Column(s) to unpivot. If not specified, uses all columns that are not set as id_vars.

Example:

```
df = pd.DataFrame({'A': {0: 'a', 1: 'b', 2: 'c'},
```

```
'B': {0: 1, 1: 3, 2: 5},
```

```
'C': {0: 2, 1: 4, 2: 6}})
```

```
pd.melt(df, id_vars=['A'], value_vars=['B', 'C'])
```

A variable value

0 a B 1

1 b B 3

2 c B 5

3 a C 2

4 b C 4

5 c C 6

References:

<https://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.melt.html>

NEW QUESTION # 114

.....

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