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**Vendor:**Microsoft

**Exam Code:**70-774

**Exam Name:**Perform Cloud Data Science with Azure  
Machine Learning

**Version:**Demo

## QUESTION 1

You have the following three training datasets for a restaurant:

You must recommend restaurant to a particular user based only on the users features.

You need to use a Matchbox Recommender to make recommendations.

How many input parameters should you specify?

- A. 1
- B. 2
- C. 3
- D. 4

Correct Answer: B

References: <https://msdn.microsoft.com/en-us/library/azure/dn905987.aspx>

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## QUESTION 2

Note: This question is part of a series of questions that use the same scenario. For your convenience, the scenario is repeated in each question. Each question presents a different goal and answer choices, but the text of the scenario is exactly the same in each question in this series.

Start of repeated scenario You plan to use Azure platform tools to detect and analyze food items in smart refrigerators. To provide families with an integrated experience for grocery shopping and cooking, the refrigerators will connect to other smart appliances, such as stoves and microwave ovens, on a LAN.

You plan to build an object recognition model by using the Microsoft Cognitive Toolkit. The object recognition model will receive input from the connected devices and send results to applications.

The training data will be derived from more than 10 TB of images. You will convert the raw images to the sparse format.

End of repeated scenario.

You need to deploy a multiple-service solution that was developed already and published by other users in the Microsoft development community.

What should you use?

- A. the edX Data Science Learning Dashboard
- B. the Data Science Virtual Machine
- C. an Azure Machine Learning experiment
- D. Cortana Intelligence Gallery

Correct Answer: C

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### QUESTION 3

Note: This question is part of a series of questions that use the same or similar answer choices. An answer choice may be correct for more than one question in the series. Each question is independent of the other questions in this series.

Information and details provided in a question apply only to that question.

You have a dataset that contains a column named Column1. Column1 is empty. You need to omit Column1 from the dataset. The solution must use a native module.

Which module should you use?

- A. Execute Python Script
- B. Tune Model Hyperparameters
- C. Normalize Data
- D. Select Columns in Dataset
- E. Import Data
- F. Edit Metadata
- G. Clip Values
- H. Clean Missing Data

Correct Answer: D

References: <https://msdn.microsoft.com/en-us/library/azure/dn905883.aspx>

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### QUESTION 4

You have an Azure Machine Learning environment.

You are evaluating whether to use R code or Python.

Which three actions can you perform by using both R code and Python in the Machine Learning environment? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Preprocess, cleanse, and group data.
- B. Score a training model.
- C. Create visualizations.
- D. Create an untrained model that can be used with the Train Model module.
- E. Implement feature ranking.

Correct Answer: ABC

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### QUESTION 5

You have the following HiveQL query in an Import Data module.

```
from Student_Table
) a
where state_rank <= state_cnt*'{hiveconf:sampleRate}'

(
select
  field1, field2, field3, ..., fieldN, state,
  count(*) over (partition by state) as state_cnt,
  rank() over (partition by state order by rand()) as state_rank

from Student_Table
) a
where state_rank <= state_cnt*'{hiveconf:sampleRate}'
```

Which type of operation is being performed?

- A. sampling a bucketized table
- B. random sampling by groups
- C. uniform random sampling
- D. stratified sampling

Correct Answer: D

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### QUESTION 6

Note: This question is part of a series of questions that use the same scenario. For your convenience, the scenario is repeated in each question. Each question presents a different goal and answer choices, but the text of the scenario is exactly the same in each question in this series.

Start of repeated scenario You plan to create a predictive analytics solution for credit risk assessment and fraud prediction in Azure Machine Learning. The Machine Learning workspace for the solution will be shared with other users in your organization. You will add assets to projects and conduct experiments in the workspace.

The experiments will be used for training models that will be published to provide scoring from web services.

The experiment for fraud prediction will use Machine Learning modules and APIs to train the models and will predict probabilities in an Apache Hadoop ecosystem.

End of repeated scenario.

The users will use different data sources that follow a standard format. The users will receive results in a standard format by using the fraud prediction web service. The results will be saved to a location specified by the users.

You need to provide the users with the ability to get results for different risk tolerances without affecting the calculation of the model. Which three modules should be configured to use the Web Service Parameters? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Evaluate Model
- B. Import Data
- C. Select Columns in Dataset
- D. Export Data
- E. Time Series Anomaly Detection

Correct Answer: ABD

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#### QUESTION 7

Note: This question is part of a series of questions that use the same or similar answer choices. An answer choice may be correct for more than one question in the series. Each question is independent of the other questions in this series. Information and details provided in a question apply only to that question.

You process some data by using Azure Machine Learning Studio. You have an intermediate dataset. The dataset has a column that contains date values stored in a format of MM/DD/YYYY.

You need to split the column into three separate columns by year, month, and day.

Which module should you use?

- A. Edit Metadata
- B. Normalize Data
- C. Clean Missing Data
- D. Import Data
- E. Execute Python Script
- F. Clip Values
- G. Clip Values
- H. Execute Python Script

Correct Answer: A

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### QUESTION 8

You need to integrate code and formatted text into an Azure Machine Learning experiment that enables interactive execution. What should you use?

- A. a Jupyter notebook
- B. Azure Stream Analytics
- C. an Execute Python Script module
- D. an Execute R Script module

Correct Answer: A

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### QUESTION 9

You are working on an Azure Machine Learning experiment that uses four different logistic regression algorithms. You are evaluating the algorithms based on the data in the following table.

Metric	Model 1	Model 2	Model 3	Model 4
Mean absolute error (MAE)	.2	.63	.41	.46
Relative absolute error (RAE)	.40	.30	.60	.65
Root mean squared error (RMSE)	.25	.37	.15	.46

Which model produces predictions that are the closest to the actual outcomes?

- A. Model 1
- B. Model 2
- C. Model 3
- D. Model 4

Correct Answer: A

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### QUESTION 10

You have data about the following: Users Movies User ratings of the movies You need to predict whether a user will like a particular movie. Which Matchbox recommender should you use?

- A. Rating Prediction
- B. Related Users
- C. Item Recommendation
- D. Related Items

Correct Answer: A

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### QUESTION 11

Note: This question is part of a series of questions that use the same scenario. For your convenience, the scenario is repeated in each question. Each question presents a different goal and answer choices, but the text of the scenario is exactly the same in each question in this series.

A travel agency named Margie's Travel sells airline tickets to customers in the United States.

Margie's Travel wants you to provide insights and predictions on flight delays. The agency is considering implementing a system that will communicate to its customers as the flight departure nears about possible delays due to weather conditions. The flight data contains the following attributes:

The weather data contains the following attributes: AirportID, ReadingDate (YYYY/MM/DD HH), SkyConditionVisibility, WeatherType, WindSpeed, StationPressure, PressureChange, and HourlyPrecip.

You plan to predict flight delays that are 30 minutes or more.

You need to build a training model that accurately fits the data. The solution must minimize over fitting and minimize data leakage.

Which attribute should you remove?

- A. OriginAirportID
- B. DepDel
- C. DepDel30
- D. Carrier
- E. DestAirportID

Correct Answer: C

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### QUESTION 12

You need to identify which columns are more predictive by using a statistical method. Which module should you use?

- A. Filter Based Feature Selection
- B. Principal Component Analysis
- C. Group Data into Bins
- D. Tune Model Hyperparameters

Correct Answer: B

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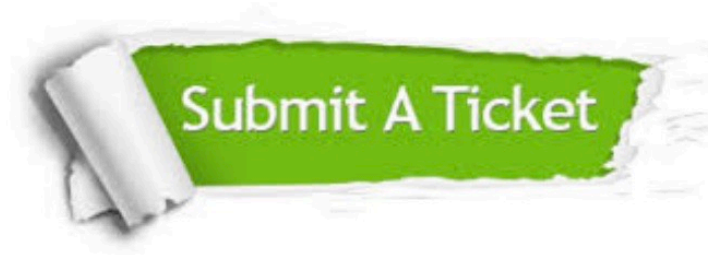
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