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Quiz: Lesson 4 - Performing Network Analysis

Your Score: Congratulations! Your score indicates that you have mastered the topics in
90% this course. You can review the feedback and when you're finished, exit
the lesson.

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1. Which table is structured appropriately for ungrouped network analysis in Visual
Analytics?

a.

MANAGER	EMPLOYEE
RACHEL	MONICA
RACHEL	ROSS
JOEY	
CHANDLER	

b.

MANAGER	EMPLOYEE
RACHEL	MONICA
RACHEL	ROSS
JOEY	CHANDLER
CHANDLER	JOEY

c.

MANAGER	EMPLOYEE
RACHEL	MONICA
RACHEL	ROSS
MONICA	
ROSS	

d.

MANAGER	EMPLOYEE
RACHEL	MONICA
RACHEL	ROSS
MONICA	CHANDLER
ROSS	JOEY

Your answer: c
Correct answer: c

To create an ungrouped network analysis in SAS Visual Analytics, the table must have at least one row for each source-target pair. In addition, the target values (in this case EMPLOYEE) must be a subset of the source values (in this case MANAGER).

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2. Which type of network analysis object shows parent-child relationships?

    a. Linked
    b. Hierarchical
    c. Ungrouped
    d. Targeted

Your answer: b
Correct answer: b

A hierarchical network analysis object shows parent-child relationships where each parent node is linked only to its children.

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3. Which type of network analysis object shows a series of linked nodes from a source to a target?

    a. Linked
    b. Hierarchical
    c. Ungrouped
    d. Targeted

Your answer: c
Correct answer: c

An ungrouped network analysis object creates a series of linked nodes from a source to a target. A node is created for each value of the source, and a link is created from each node to the node that corresponds to the value of the target.

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4. For the Split transform, which option will split the data as shown below?

PRODUCT	LOCATION	NUMBER
TX14	TX	14
LA38	LA	38
TX85	TX	85

LA02	LA	02

     a. On a delimiter
     b. Fixed length
     c. Quick split
     d. Before a delimiter

Your answer: b
Correct answer: b

For the Split transform, in the Column Transforms group, the fixed length option will split the data based on a specific position in the string. In this example, you can split the PRODUCT column on position 2, so the first two characters populate the LOCATION column and the remaining characters populate the NUMBER column.

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5. For the Split transform, which option will split the data as shown below?

ADDRESS	STREET	CITY
PEARL, DALLAS	PEARL	DALLAS
FIFTH AVE, NEW YORK	FIFTH	AVE, NEW YORK
221B BAKER, LONDON	221B	BAKER, LONDON
MAYNARD, CARY	MAYNARD	CARY

     a. On a delimiter
     b. Fixed length
     c. Quick split
     d. Before a delimiter

Your answer: a
Correct answer: c

For the Split transform, in the Column Transforms group, the quick split option will split the data using the first delimiter in the string. In this example, the values PEARL, DALLAS and MAYNARD, CARY are split using the comma as the delimiter and the values FIFTH AVE, NEW YORK and 221B BAKER, LONDON are split using the first space as the delimiter.

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6. For the Split transform, which option will split the data as shown below?

ADDRESS	STREET	CITY
PEARL, DALLAS	PEARL	DALLAS

FIFTH AVE, NEW YORK	FIFTH AVE	NEW YORK
221B BAKER, LONDON	221B BAKER	LONDON
MAYNARD, CARY	MAYNARD	CARY

  a. On a delimiter
  b. Fixed length
  c. Quick split
  d. Before a delimiter

Your answer: a
Correct answer: a

For the Split transform, in the Column Transforms group, the on a delimiter option will split the data using a specified delimiter. In this example, each string is split using the comma as the delimiter.

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7. Which transform in SAS Data Studio enables you to use DATA step or CASL to transform a CAS table?

  a. Code
  b. Calculated column
  c. Rename
  d. Matchcodes

Your answer: a
Correct answer: a

The Code transform, in the Custom Transforms group, enables you to write DATA step or CASL code to perform actions or transformations on a table.

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8. What is an example of a directed relationship for an ungrouped network analysis object?

  a. Transactions between criminals
  b. Friends relationship on Facebook
  c. Actors in Saturday Night Live episodes
  d. Friends relationship on Snapchat

Your answer: a
Correct answer: a

A directed relationship in an ungrouped network analysis object shows the direction of the relationship between entities using arrows. Transactions between criminals is an example of a directed relationship because one person will send

money (source) and another person will receive the money (target).

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9. What is an example of an undirected relationship for an ungrouped network analysis object?

    a. Disease transmission
    b. Phone calls between family members
    c. Trash pickup routes
    d. Connections on LinkedIn

Your answer: d
Correct answer: d

An undirected relationship in a network analysis object only displays the connections between entities, meaning there is no direction to the relationship. Connections on LinkedIn is an example of an undirected relationship because the connection is mutual: person A is related to person B, which implies that person B is related to person A.

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10. What types of data items are needed to overlay an ungrouped network analysis object on a geo map?

    a. Two geographies
    b. Two measures
    c. One geography, one measure
    d. One category, one measure

Your answer: a
Correct answer: a

For a network analysis object, if both the source and target are geographic data items, the network can be overlaid on a geo map.

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