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QUESTION 1

You are working with a dataset and want to change the names of categories that you used for different types of books.

What term best describes this action?

- A. Recording.
- B. Summarizing
- C. Aggregating.
- D. Filtering.

Correct Answer: A

Explanation: The term that best describes the action of changing the names of categories that you used for different types of books is recoding. Recoding is a process of transforming or modifying the values of a variable or a category to make them more meaningful, consistent, or accurate. For example, you can recode the names of book genres from "Fiction", "Non-Fiction", "Biography", etc. to "FIC", "NF", "BIO", etc. to make them shorter and easier to use. Reference: Recoding Data - SPSS Tutorials - LibGuides at Kent State University

QUESTION 2

Which of the following best describes how discrete data differs from continuous data?

- A. Discrete data cannot create a sloped line.
- B. Discrete data can only be a finite number of values.
- C. Discrete data can have decimal points.
- D. Discrete data applies only to numbers.

Correct Answer: B

Explanation: Discrete data are data that can only assume specific values that are countable and distinct. For example, the number of books, the number of heads in a coin toss, or the number of patients in a hospital are discrete data. Discrete data cannot have fractional or decimal values, and there are clear spaces between the possible values¹². Continuous data are data that can assume any value within a range and can be meaningfully divided into smaller parts. For example, the weight, height, length, time, or temperature are continuous data. Continuous data can have fractional or decimal values, and there are infinite numbers of possible values between any two points¹².

QUESTION 3

Q3 2020 has just ended, and now a data analyst needs to create an ad-hoc sales report that demonstrates how well the Q3 2020 promotion went versus last year's Q3 promotion.

Which of the following date parameters should the analyst use?

- A. 2019 vs. YTD 2020
- B. Q3 2019 vs. Q3 2020
- C. YTD 2019 vs. YTD 2020
- D. Q4 2019 vs. Q3 2020

Correct Answer: B

Explanation: The date parameters that the analyst should use are Q3 2019 vs. Q3 2020, as this will allow the analyst to compare the sales performance of the Q3 2020 promotion with the same period of last year. This will help to eliminate any seasonal or cyclical effects that might affect the sales data. The other options are not relevant for this purpose, as they either compare different quarters or different years. Reference: CertMaster Practice for Data+ Exam Prep - CompTIA

QUESTION 4

Consider the following dataset which contains information about houses that are for sale:

```
sonery=# select * from melb limit 5;
```

houseid	address	regionname	type	rooms	date	distance	price
1	85 Turner St	Northern Metropolitan	h	2	2016-03-12	2.5	1.48e+06
2	25 Bloomberg St	Northern Metropolitan	h	2	2016-04-02	2.5	1.035e+06
3	5 Charles St	Northern Metropolitan	h	3	2017-04-03	2.5	1.465e+06
4	40 Federation La	Northern Metropolitan	h	3	2017-04-03	2.5	850000
5	55a Park St	Northern Metropolitan	h	4	2016-04-06	2.5	1.6e+06

(5 rows)

Which of the following string manipulation commands will combine the address and region name columns to create a full address?

full_address----- 85 Turner St, Northern Metropolitan 25 Bloomberg St, Northern Metropolitan 5 Charles St, Northern Metropolitan 40 Federation La, Northern Metropolitan 55a Park St, Northern Metropolitan

- A. SELECT CONCAT(address, \', \' , regionname) AS full_address FROM melb LIMIT 5;
- B. SELECT CONCAT(address, \'-\' , regionname) AS full_address FROM melb LIMIT 5;
- C. SELECT CONCAT(regionname, \', \' , address) AS full_address FROM melb LIMIT 5
- D. SELECT CONCAT(regionname, \'-\' , address) AS full_address FROM melb LIMIT 5;

Correct Answer: A

The correct answer is A: SELECT CONCAT(address, \', \' , regionname) AS full_address FROM melb LIMIT 5; String manipulation (or string handling) is the process of changing, parsing, splicing, pasting, or analyzing strings. SQL is used for managing data in a relational database. The CONCAT () function adds two or more strings together. Syntax CONCAT(string1, string2,... string_n) Parameter Values Parameter Description string1, string2, string_n Required. The strings to add together.

QUESTION 5

A data analyst for a media company needs to determine the most popular movie genre. Given the table below:

MovieID	Name	Genre	Actors	Rating
01	Ghost Writer	Comedy, Actions	Joshua Wellington, Susana Summons	6.5
02	Life of Suffering	Drama, Foreign, Historical	Shelly May, Rita Moralle, Ethan Warner, Sean Houser	7.2

Which of the following must be done to the Genre column before this task can be completed?

- A. Append
- B. Merge
- C. Concatenate
- D. Delimit

Correct Answer: D

Explanation: The action that must be done to the Genre column before this task can be completed is delimit. Delimit is a process of separating or splitting a string of text into multiple parts based on a delimiter, which is a character or a sequence of characters that marks the boundary between the parts. For example, a comma (,) or a semicolon (;) can be used as a delimiter. In this case, the Genre column contains multiple genres for each movie, separated by commas. To determine the most popular movie genre, the data analyst needs to delimit the Genre column by commas, so that each genre can be counted and compared separately. The other options are not relevant for this task, as they are related to combining or joining strings or tables, not separating them. Append is a process of adding or attaching one string or table to the end of another string or table. Merge is a process of combining or joining two or more tables into one table based on a common column or key. Concatenate is a process of joining or linking two or more strings together into one string. Reference: [How to Split Text in Excel - Exceljet]