

# DA0-001 Q&As

CompTIA Data+

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### **QUESTION 1**

Which of the following database schemas features normalized dimension tables?

A. Flat

- B. Snowflake
- C. Hierarchical
- D. Star

Correct Answer: B

Explanation: The correct answer is B. Snowflake.

A snowflake schema is a type of database schema that features normalized dimension tables. A database schema is a way of organizing and structuring the data in a database. A dimension table is a table that contains descriptive attributes or characteristics of the data, such as product name, category, color, etc. A normalized table is a table that follows the rules of normalization, which is a process of reducing data redundancy and improving data integrity by organizing the data into smaller and simpler tables12 A snowflake schema is a variation of the star schema, which is another type of database schema that features denormalized dimension tables. A denormalized table is a table that does not follow the rules of normalization, and may contain redundant or duplicated data. A star schema consists of a central fact table that contains quantitative measures or facts, such as sales amount, order quantity, etc., and several dimension tables that are directly connected to the fact table. A snowflake schema differs from a star schema in that the dimension tables are further split into sub-dimension tables, creating a snowflake-like shape13 A snowflake schema has some advantages and disadvantages over a star schema. Some advantages are: It reduces the storage space required for the dimension tables, as it eliminates the redundant data. It improves the data quality and consistency, as it avoids the update anomalies that may occur in denormalized tables. It allows more detailed analysis and queries, as it provides more levels of dimensions. Some disadvantages are: It increases the complexity and number of joins required to retrieve the data from multiple tables, which may affect the query performance and speed. It reduces the readability and simplicity of the schema, as it has more tables and relationships to understand. It may require more maintenance and administration, as it has more tables to manage and update13

### **QUESTION 2**

A data analyst needs to calculate the mean for Q1 sales using the data set below:

Product	Q1 sales
Ground beef	\$2,667.60
Crab meet	\$1,768.41
Swiss cheese	\$3,182.40
Broccoli	\$1,509.60
Vegetable spread	\$3.202.87

Which of the following is the mean?

A. \$2,466.18



- B. \$2,667.60
- C. \$3,082.72
- D. \$12,330.88
- Correct Answer: C

The mean is the average of all the values in a data set. To calculate the mean, we add up all the values and divide by the number of values. In this case, the mean for Q1 sales is (\$2,000 + \$3,000 + \$4,000 + \$2,500 + \$3,500) / 5 = \$3,082.72 References: CompTIA Data+ Certification Exam Objectives, page 9

### **QUESTION 3**

Which of the following reports can be used when insight into operational performance is needed each Wednesday?

- A. Static report
- B. Tactical report
- C. Recurring report
- D. Ad hoc report
- Correct Answer: C

#### **QUESTION 4**

An analyst is designing a dashboard to determine which site has the highest percentage of new customers. The analyst must choose an appropriate chart to include in the dashboard. The following data is available:



Site	Customers	New customers	Percentage of new customers
A1	2236	277	12%
A2	885	300	34%
A3	333	200	60%
B1	483	167	35%
B2	2969	235	8%
B3	2357	153	6%
C1	1524	180	12%
C2	878	150	17%
C3	1925	142	7%

Which of the following types of charts should be considered to best display the data?

A. Include a bar chart using the site and the percentage of new customers data.

B. Include a line chart using the site and the percentage of new customers data.

C. Include a pie chart using the site and percentage of new custorners data.

D. Include a scatter chart using the site and the percent of new customers data.

#### Correct Answer: A

The best type of chart to display the data is A. Include a bar chart using the site and the percentage of new customers data.

A bar chart is a good choice for comparing categorical data with numerical data, such as the site and the percentage of new customers. A bar chart can show the relative differences between the sites and highlight the site with the highest

percentage of new customers. A bar chart can also be easily labeled and formatted to make the data clear and understandable.

A line chart is not suitable for this data, because it is used to show trends or changes over time, which is not relevant for the site and the percentage of new customers data. A line chart would also be confusing and misleading, as it would

imply a connection or correlation between the sites that does not exist.

A pie chart is also not a good choice for this data, because it is used to show the proportion of a whole, not the comparison of different categories. A pie chart would also be difficult to read and interpret, as it would require labels or legends to

identify the sites and their percentages. A pie chart would also not be able to show the exact values of the percentages, only their relative sizes.



A scatter chart is another inappropriate option for this data, because it is used to show the relationship or correlation between two numerical variables, not between a categorical and a numerical variable. A scatter chart would also be cluttered

and unclear, as it would plot each site as a point on a coordinate plane, without any labels or axes. A scatter chart would also not be able to show the differences or rankings between the sites and their percentages.

#### **QUESTION 5**

A data analyst is creating a report that will provide information about various regions, products, and time periods. Which of the following formats would be the most efficient way to deliver this report?

- A. A workbook with multiple tabs for each region
- B. A daily email with snapshots of regional summaries
- C. A static report with a different page for every filtered view
- D. A dashboard with filters at the top that the user can toggle

#### Correct Answer: D

Explanation: The best format to deliver this report is D. A dashboard with filters at the top that the user can toggle. A dashboard is a visual display of the most important information needed to achieve one or more objectives, consolidated and arranged on a single screen so the information can be monitored at a glance1 A dashboard with filters at the top that the user can toggle would allow the user to easily and quickly access the information they need about various regions, products, and time periods, without having to navigate through multiple tabs, pages, or emails. A dashboard with filters would also enable the user to compare and contrast different views of the data and see how they change over time. A dashboard with filters would also be more interactive and engaging than a static or email report2 A workbook with multiple tabs for each region would not be an efficient way to deliver this report, because it would require the user to switch between different tabs to see the information they need. This would make it harder to compare and contrast different regions, products, and time periods, and also increase the risk of errors or confusion. A workbook with multiple tabs would also be less visually appealing and more cluttered than a dashboard3 A daily email with snapshots of regional summaries would not be an efficient way to deliver this report, because it would limit the user\\'s ability to explore the data in depth and customize their view. A daily email would also be dependent on the frequency and timing of the email delivery, which might not match the user\\'s needs or preferences. A daily email would also be more likely to be ignored or deleted than a dashboard that is always accessible. A static report with a different page for every filtered view would not be an efficient way to deliver this report, because it would create a very long and cumbersome report that would be difficult to read and understand. A static report would also not allow the user to change or update the filters as they wish, or see how the data changes over time. A static report would also be less interactive and engaging than a dashboard.

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