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PUBH 1142 – Week 4 Quiz

1. What is the difference between a spreadsheet and a database?

* Spreadsheets are simpler and are used for calculations and small datasets, whereas databases are more complicated and are used to manage and manipulate large datasets.

1. What are the advantages and disadvantages of using a spreadsheet for health data management?

* Spreadsheets are optimal for health data management when working with small volumes of tabular data while also being easy to learn and use. Their disadvantages include how limited spreadsheets are in terms of their scalability, data relations, data integrity, and multi-user friendliness.

1. What are the advantages and disadvantages of using a database for health data management?

* Databases are best at managing large, complex data structures and can be managed with a team. However, they require the user to understand database design, which means it is not as accessible as spreadsheets.

1. What are some examples of tasks that can be performed using a spreadsheet?

* Summary statistics, data entry, and pivot tables are a few examples of tasks that can be performed using a spreadsheet.

1. What are some examples of tasks that can be performed using a database?

* Databases can normalize data, which makes tables simpler and makes relationships easier to see between data.

1. What are some examples of tasks that can be performed using both a spreadsheet and a database?

* Both spreadsheets and databases are tools used to organize and sort data with varying capabilities of visualizing that data.

1. What are some examples of tasks that can be performed using neither a spreadsheet nor a database?

* Neither a spreadsheet nor a database can collect data and analyze it critically like a human can.

1. What are some examples of tasks that can be performed using a spreadsheet but not a database?

* Spreadsheets can more easily tidy data and export CSV files compared to databases.

1. What are some examples of tasks that can be performed using a database but not a spreadsheet?

* Spreadsheets cannot perform data normalization as easily as databases can.

1. What are some examples of tasks that can be performed using both a spreadsheet and a database?

* Both spreadsheets and databases are tools used to organize and sort data with varying capabilities of visualizing that data.