

**Data synthesis** is the process of combining and analyzing multiple **sources** of data to generate new insights or to answer **research questions**. This process involves collecting and organizing data from various sources, such as surveys, experiments, observations, and secondary data sources like databases and published literature.

The data synthesis process typically involves several steps, including data extraction, data transformation, data analysis, and interpretation. During data extraction, researchers identify and collect relevant data from different sources. Data transformation involves cleaning, formatting, and standardizing the data to prepare it for analysis.

Once the data is transformed, researchers use statistical or qualitative analysis techniques to analyze the data and identify patterns or relationships among the variables. The interpretation of the results involves drawing conclusions based on the analysis and presenting the findings in a meaningful and useful way.

Data synthesis is widely used in a variety of fields, including social sciences, health sciences, and business. It allows researchers to gain a deeper understanding of complex phenomena and to generate new insights that can inform policy and practice.

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