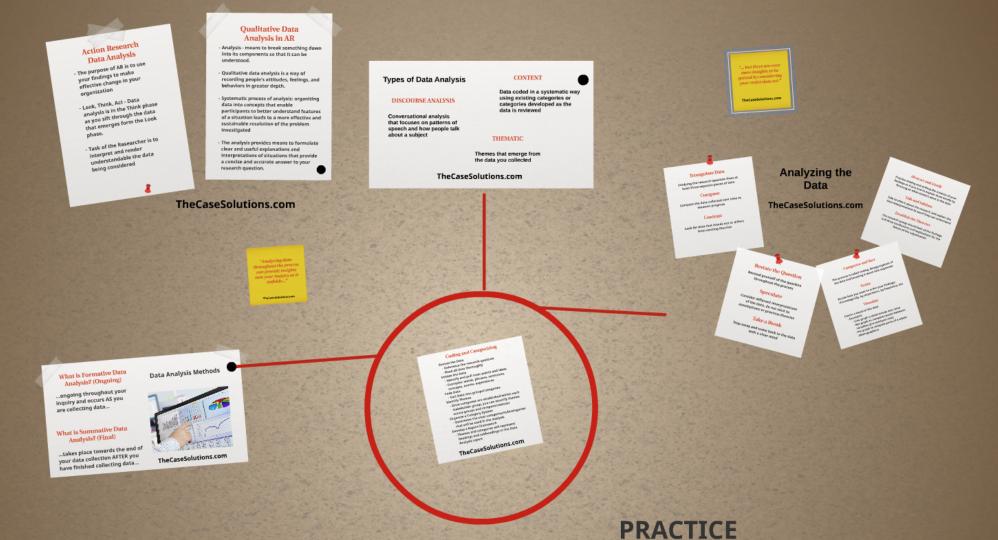


Visualizing Process Behavior



Visualizing Process Behavior

Action Research Data Analysis

- The purpose of AR is to use your findings to make effective change in your organization
 - Look, Think, Act Data analysis is in the Think phase as you sift through the data that emerges form the Look phase.
 - Task of the Researcher is to interpret and render understandable the data being considered

Qualitative Data Analysis in AR

- Analysis means to break something down into its components so that it can be understood.
- Qualitative data analysis is a way of recording people's attitudes, feelings, and behaviors in greater depth.
- Systematic process of analysis: organizing data into concepts that enable participants to better understand features of a situation leads to a more effective and sustainable resolution of the problem investigated
- The analysis provides means to formulate clear and useful explanations and interpretations of situations that provide a concise and accurate answer to your research question.



"Analyzing data throughout the process can provide insights into your inquiry as it unfolds..."

"... but there are even more insights to be gained by considering your entire data set."

What is Formative Data Analysis? (Ongoing)

...ongoing throughout your inquiry and occurs AS you are collecting data...

What is Summative Data Analysis? (Final)

...takes place towards the end of your data collection AFTER you have finished collecting data...

Data Analysis Methods



Types of Data Analysis

DISCOURSE ANALYSIS

Conversational analysis that focuses on patterns of speech and how people talk about a subject

CONTENT

Data coded in a systematic way using existing categories or categories developed as the data is reviewed

THEMATIC

Themes that emerge from the data you collected



Studying the research question from at least three separate pieces of data

Compare

Compare the data collected over time to measure progress

Contrast

Look for data that stands out or differs from existing theories

Analyzing the Data

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Practice stating and writing the essence of your had to evaluate them hriefly by Practice stating and writing the essence or your findings as if you had to explain them briefly by focusing on What matters most in the data

Talk to others about the research and explain the Talk to others about the research and explain the data interpretations to see if they can understand Establish the Theories

The research group should look at the findings and draw conclusions and implications for the

Restate the Question

Remind yourself of the question throughout the process

Speculate

Consider different interpretations of the data, do not stick to assumptions or previous theories

Take a Break

Step away and come back to the data

Categorize and Sort

This process is called coding, disaggregation of Trus process is caused coding, disaggregation of the data and breaking it down into segments

Decide how you want to order your findings: Decide now you want to order your findings:

chronologically, by importance, by frequency, etc. Visualize

Create a visual of the data Line graph o show trends over time . Bar graph to compare results between Pie graph to compare parts of a whole

- (demographics)

Coding and Categorizing

Review the Data

- Reference the research question
- · Read all data thoroughly

Unitize the Data

- Identify and pull main points and ideas
- Examples: words, phrases, sentences, concepts, events, experiences

Code Data

Sort Data into groups/categories

Identify Themes

 Once categories are established within each stakeholder group, you can identify themes across groups and compare/contrast

Organize a Category System

 Determine the clear categories/subcategories that will be used in the analysis

Develop a Report Framework

 Themes and categories will represent headings and subheadings in the Data Analysis report