

- Introduction to Data Collection
 - Data collection is the process of gathering and evaluating information.
 - It is used for research, decision-making, and trend forecasting.
 - Data collection helps in making well-informed decisions.
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Importance of Data Collection

- Why Do We Need Data Collection?
 - - Supports informed decision-making.
 - Provides insights into trends and phenomena.
 - Crucial for research, businesses, and government activities.
 - Data is essential for understanding surroundings and their impact.
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Types of Data

- Qualitative vs. Quantitative Data
 - **Qualitative Data:**
 - Descriptions (e.g., color, size, quality).
 - Focus on subjective interpretation.
 - **Quantitative Data:**
 - Numbers (e.g., statistics, percentages).
 - Provides measurable, concrete information.
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Key Steps in Data Collection

- The 5 Key Steps in Data Collection
 - 1. **Decide What Data to Gather:** Define scope and source.
 2. **Set a Deadline:** Establish timelines for data collection.
 3. **Select a Method:** Choose the right approach (surveys, interviews, etc.).
 4. **Gather Information:** Implement the plan and collect data.
 5. **Analyze and Apply:** Use tools to analyze and derive insights.
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Challenges in Data Collection

- Common Data Collection Challenges
- - Big data complexities.
 - Low response rates in surveys.
 - Poor design leading to irrelevant data.

- The high cost of collecting large data sets.
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Best Practices in Data Collection

- Best Practices for Effective Data Collection
 - 1. **Evaluate Cost:** Balance data quantity with the cost.
 2. **Plan Methods:** Choose the right tools and techniques for each data type.
 3. **Consider Mobile Data Collection:** Use mobile devices for quicker and accurate data.
 4. **Identify Relevant Data:** Focus on collecting useful and necessary data.
 5. **Use Identifiers:** Track successes and failures with proper identifiers.
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Big Data

- Dealing with Big Data
 - - Massive data sets with intricate structures.
 - Requires advanced tools for analysis.
 - Used extensively in sectors like healthcare, social networks, and businesses.
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Low Response Rates

- Addressing Low Response Rates
 - - Common issue in surveys, especially health-related.
 - Incentivize participation to improve response rates.
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Modern Data Collection Techniques

- Data Collection with Mobile Devices
 - - IVRS (Interactive Voice Response).
 - SMS data collection.
 - Field surveyors with mobile apps.
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- Mastering data collection is key to credible research and business insights.

- Address challenges and follow best practices to enhance results.