Group Project Meeting recording

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**Research**

**Date:** Monday, October 14, 2024

**Agenda:**

Introduction to the topic of divorces

Discuss research objectives

Divide responsibilities

Set deadlines

**1. Introduction to the Topic of Divorces:**

Overview: We discussed the significance of studying divorces, including statistics and trends in recent years. Taking into consideration the understanding of the causes and impacts of divorce can help in developing resources for prevention and support.

**2. Discuss Research Objectives**

What are the most common reasons for divorce?

Which might be the most common factor?

Where are we obtaining the data?

Research Goals: To gather quantitative and qualitative data related to divorces, and to analyze the psychological and financial impacts on individuals involved.

**3. Divide Responsibilities**

Statistics & Trends: Anton will focus on collecting data on divorce rates and trends over the years.

Causes of Divorce: Ian will research common reasons for divorce, including social, economic, and personal factors.

Long-term Effects: Daniel will investigate the long-term effects of divorce on adults, including mental health issues.

**4. Set Deadlines**

Next Monday will provide of the information and do brainstorm.

**Data Collection**

**Date:** Monday, October 28, 2024

**Agenda:**

1. Review collected data
2. Brainstorm relevant databases
3. Divide database research tasks
4. Set deadlines for database collection

**1. Review Collected Data**

* **Statistics Overview:** Each member shared preliminary findings related to their assigned topics.
* **Highlights:**
  + **Daniel:** Found compelling statistics on divorce rates by age group.
  + **Ian:** Identified common reasons for divorce tied to religious backgrounds.
  + **Anton:** Collected qualitative data on the impact of divorce on children across different states.
  + **Daniel:** Gathered information on long-term effects of divorce, noting variations by state.

**2. Brainstorm Relevant Databases**

* **Discussion Points:**
  + We need to find reliable sources to support our findings and enhance our research.
  + Suggested databases include:
    - **Statista:** For demographic statistics related to marriage and divorce.
    - **Pew Research Center:** To explore religious affiliations and their correlation with divorce rates.
    - **U.S. Census Bureau:** To examine state-by-state differences in divorce rates and demographics.

**3. Divide Database Research Tasks**

* **Assigned Tasks:**
  + **Age Group Analysis:** Daniel will focus on the statista databases to gather comprehensive statistics on divorce rates by age.
  + **Religious Affiliation Impact:** Ian will explore the Pew Research Center and other sociological studies to analyze divorce rates by religious background.
  + **State Comparisons:** Anton will research data from the U.S. Census Bureau to compare divorce rates and statistics across different states.

**4. Set Deadlines**

* Next Monday will provide a more complete view of the project once the data is collected.

**Data Cleaning and Sharing Data**

**Date:** Monday, November 4, 2024

**Agenda:**

1. Review database research findings
2. Divide data preparation tasks
3. Establish a shared folder and data cleaning process
4. Discuss sharing findings and coding in Google Collab
5. Deadlines for database cleaning.

**1. Review Database Research Findings**

* **Overview:** Each member presented their findings from the assigned databases.
* **Highlights:**
  + **Daniel:** Compiled data on divorce rates by age from Statista.
  + **Ian:** Gathered insights on the impact of religious affiliation on divorce rates from the Pew Research Center.
  + **Anton:** Provided comparative statistics on divorce rates across different states using U.S. Census Bureau data and found studies on the long-term effects of divorce that vary by state.

**2. Divide Data Preparation Tasks**

* **Data Preparation Assignments:**
  + **All members:** Will download CSV files related to their respective databases
  + **All members:** Will clean the databases/cvs data from their respective databses.
  + **All members:** Will compile state comparison data into a structured format for easier analysis.

**3. Establish a Shared Folder and Data Cleaning Process**

* **Shared Folder Setup:**
  + A shared Google Drive folder named “Divorce Project Data” has been created.
  + Each member will upload their respective CSV files into a share drive folder.
* **Data Cleaning Process:**
  + Members will clean their datasets to ensure uniformity, so we will consistently naming conventions, removal of duplicates.
  + We will use Python libraries like Pandas for data cleaning, and everyone is encouraged to document the cleaning process.

**4. Discuss Sharing Findings and Coding in Google Collab**

* **Google Collab Setup:**
  + We will create a shared Google Collab notebook for collaborative coding and analysis.
  + The Collab notebook will be used for data analysis, visualization, and compiling findings.
  + Each member will contribute code snippets relevant to their topics for a comprehensive analysis.

**5. Set Deadlines**

* Next Monday we will try graphing the data

**Graphing and Presentation**

**Date:** Monday, November 18, 2024

**Agenda:**

1. Review cleaned data and findings
2. Graph data for analysis
3. Prepare PowerPoint presentation
4. Assign presentation roles

**1. Review Cleaned Data and Findings**

* **Overview:** Each member presented the cleaned datasets related to their specific topics.
* **Highlights:**
  + **Daniel:** Completed data on divorce rates by age, highlighting trends and significant age groups affected.
  + **Ian:** Analyzed data on divorce rates in relation to religious affiliation, presenting key insights into how religion influences divorce.
  + **Anton:** Compiled state comparison data, showcasing variations in divorce rates across different states and their implications.

**2. Graph Data for Analysis**

* **Graphing Assignments:**
  + **Daniel :** Will create graphs to illustrate divorce rates by age group, emphasizing notable findings.
  + **Ian:** Will design graphs to visually represent the impact of religious affiliation on divorce rates.
  + **Anton:** Will generate graphs to show the differences in divorce rates across states over time.
* **Tools:** We will use Matplotlib and Seaborn in Google Collab for data visualization.

**3. Prepare PowerPoint Presentation**

* **Presentation Structure:**
  + Slide 1: Title Slide - “Understanding Divorces in the U.S.”
  + Slide 2: Overview of Research Objectives
  + Slide 3-6: Daniel findings on age-related divorce rates including graphs.
  + Slide 7-10: Ian insights on religious affiliation and divorce with his graphs.
  + Slide 11-14: Anton analysis of state differences in divorce rates with his respective graphs.
  + Slide 15: Conclusion and Future Research Directions
* **Collaboration:** Each member will contribute their slides in a shared PowerPoint file, ensuring consistency in design and formatting.

**4. Assign Presentation Roles**

* **Presentation Assignments:**
  + **Daniel:** Will present findings on age-related divorce rates.
  + **Ian:** Will explain insights regarding the impact of religion on divorce.
  + **Anton:** Will discuss state differences in divorce rates and summarize the overall findings.

**5. Set Deadlines**

* Death line that professor provides