Wastewater Surveillance Database
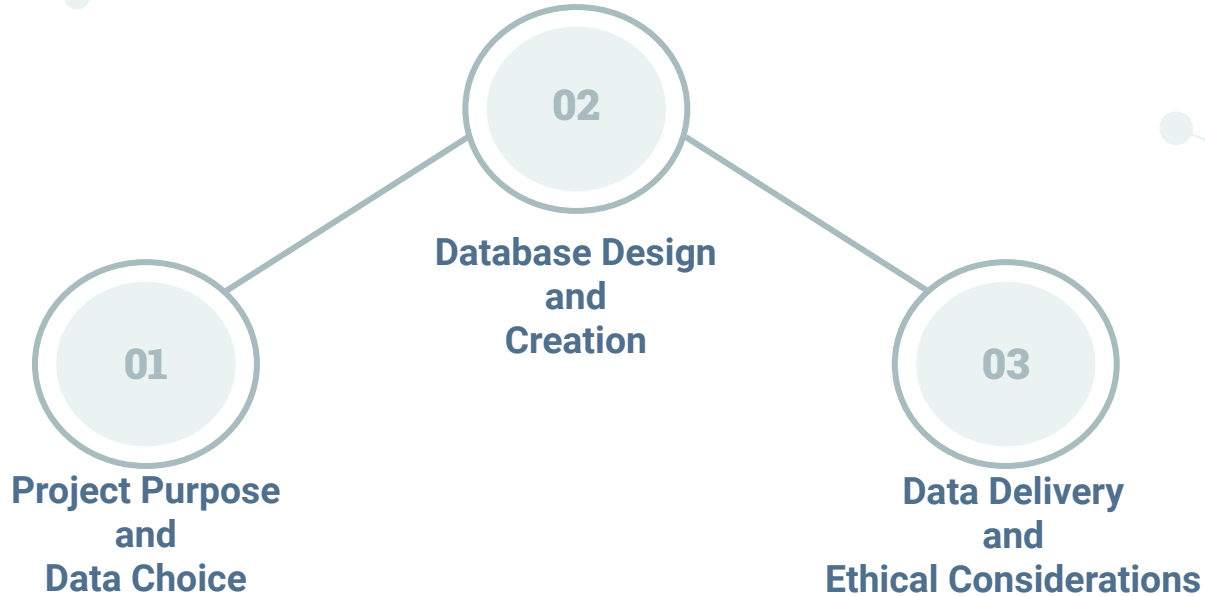
Andrea Ceriati, Kathryn Lesh, Michelle Minkowitz

Presentation Overview

02

Database Design and Creation

01

Project Purpose and Data Choice

03

Data Delivery and Ethical Considerations

- **What is wastewater surveillance?**

- **Data Source: Wastewater Scan**

- **Additional Data: Census Bureau**

- **Project Goal: Tool for public health**

01

Project purpose

Database Design & Creation

02

- **Database System: PostgreSQL**

- **Extract-Load-Transform (ETL):**

  - **Data Cleaning**

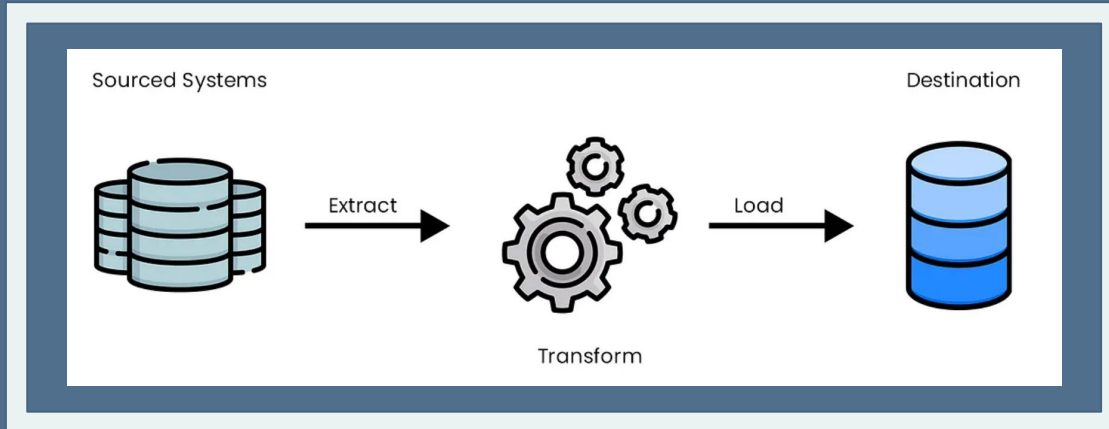 - **Missingno Library**

  - **Database Normalization**

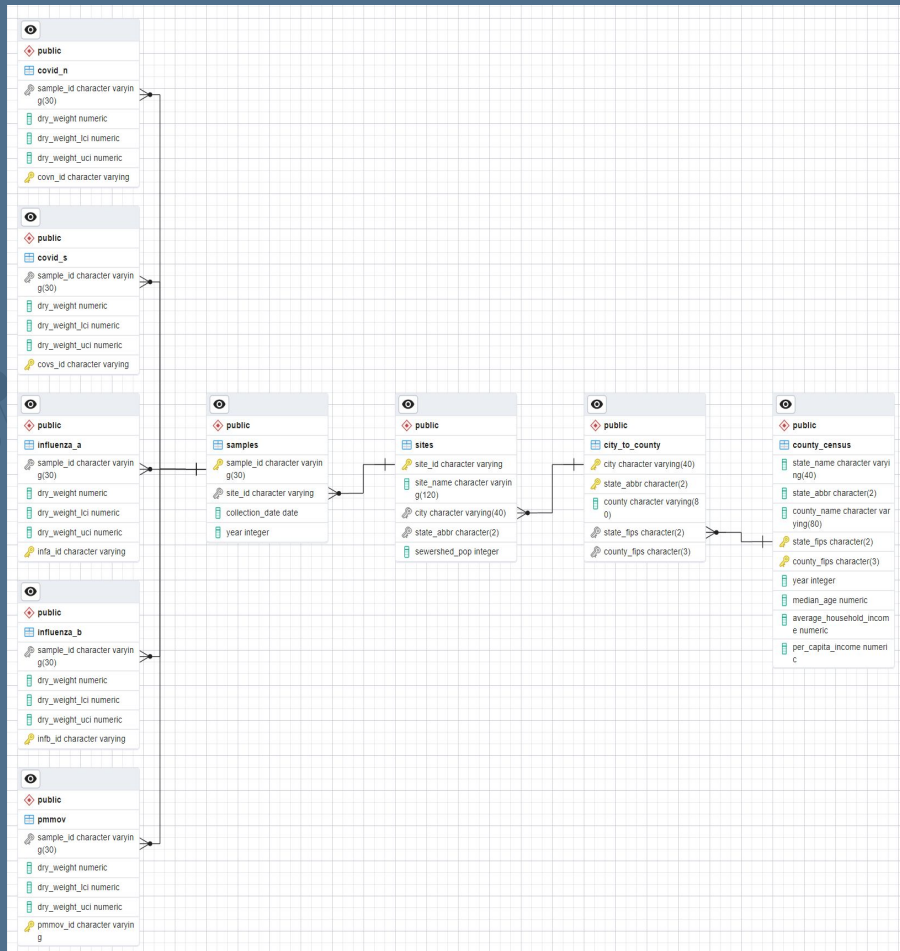**Figure 1.** Extract-Transform-Load (ETL) Process.

Figure 2. Entity-Relationships Diagram(ERD)

Database Design
& Creation

02

- **Utilizing Flask:**

  - **Flexibility**
  - **Database integration is easy**
  - **Not suitable for big applications**

- **Further Development with Data Visualization**

- **Ethical Considerations:**

  - **Privacy Protection**
  - **Stigma Mitigation**
  - **Community Engagement**

03

Data Delivery
Ethical Considerations

Thanks!

DO YOU HAVE ANY QUESTIONS?