

Module 1: Data Preparation Using Tableau Prep

Case Study II- Problem Statement

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Problem Statement:

You are a Tableau BI Developer working in the Forensics department. Your assignment is to analyse the data of a ship crash but unfortunately, the data is in a very raw format. Using a data cleaning tool, prepare the data for analysis.

Refer to the dataset: Ship Crash Data.csv

Q1. Connect to the data. In the Input step, change Sex to Gender, Sibsp to Siblings or Spouse and Parch to Parent or Children.

Q2. Add a Cleaning step and change the data type of Survived as String and rename the values as follows:

- 0 as Died
- 1 as Survived.
- Name the Clean 1 Step as Renaming of fields.

Q3. Similarly, Rename Pclass as Passenger Class and change its data type to String. Also change its values as follows: -

- 1 as First Class
- 2 as Second Class
- 3 as Economy class

Q4. Add another cleaning step and name it as Filter. Under this step, apply a filter on Age to remove all the null values.

Q5. Add another Step and rename it as Calculated field. Create a Calculated field to identify the number of fathers on board. The criteria to judge an adult is: -

Gender = Male

Age > 18

Parent or Children > 0

Note: Name this step as “Calculated field”.

Q6. Add another step and name it as Splitting. Split the name field into 3 columns namely Surname, Title, First/Middle name. After splitting, remove any punctuation from First/Middle name card and remove the name field from the data entirely.

Q7. Export the data as Tableau extract and save the flow in .tfl format.

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