Strat. Consultancy Project I & Data Analytics

DCU BUSINESS SCHOOL

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dotLAB
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Tableau Workshop

INSTALL AND LOGIN

Install & Login

- Download and install **Tableau Desktop**:

  – https://www.tableau.com/tft/activation

- On the form, enter your school email address for Business E-mail and enter the name of your school for Organization

- Activate with your **product key**:

  – TC9X-2E66-BDB0-D87C-EDFE

DATASET

Dataset: Titanic.csv

This data set provides information on the fate of the 1309 passengers on the fatal maiden voyage of the ocean liner 'Titanic' with their economic status (class), sex and age.
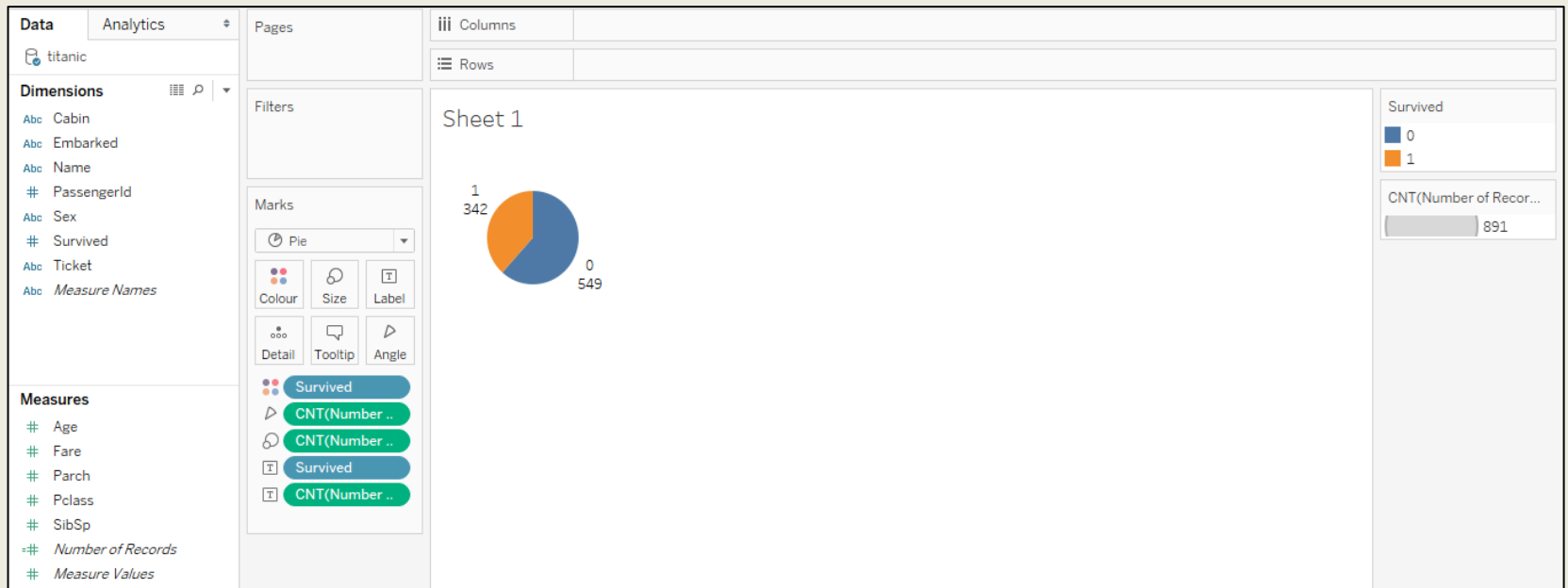
Description of the dataset:

- Survival: Survival (0 = No, 1 = Yes)
- Pclass: Ticket class (1 = 1st, 2 = 2nd, 3 = 3rd)
- Sex: Male/Female
- Age: Years
- Sibsp: # of siblings / spouses aboard the Titanic
- Parch: # of parents / children aboard the Titanic
- Ticket: Ticket number
- Fare: Passenger fare
- Cabin: Cabin number
- Embarked: Port of Embarkation (C = Cherbourg, Q = Queenstown, S = Southampton)
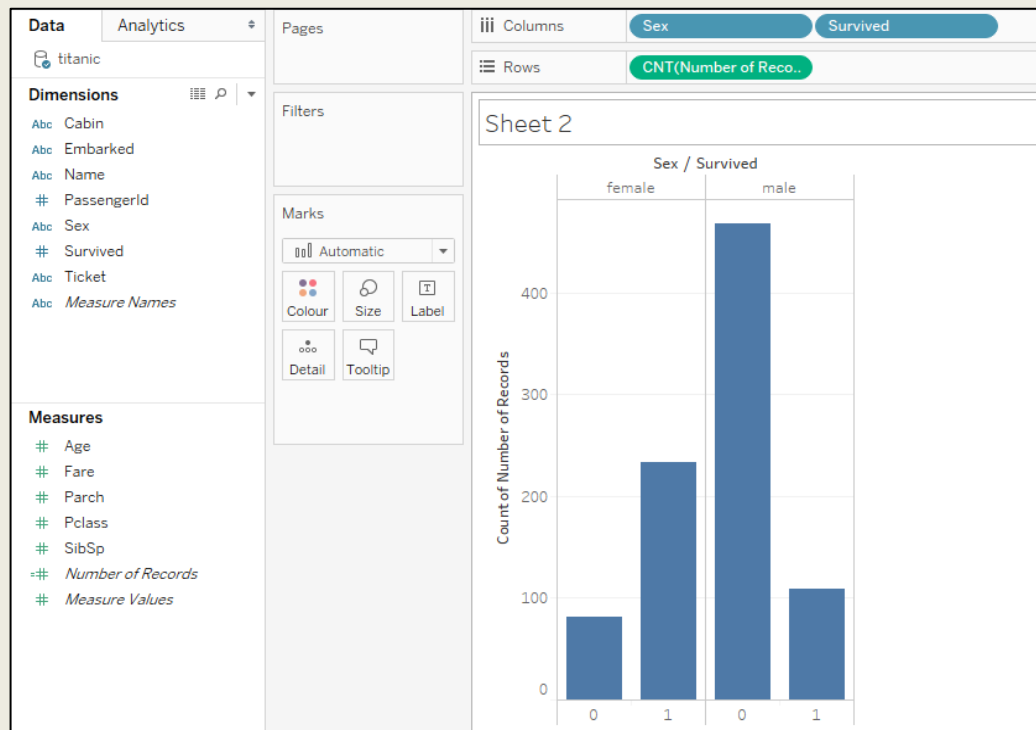
EXERCISES

Ex 1: Pie Chart

- Create a **pie chart** by **counting** the amount of passenger with the **Survived** variable

Ex 2: Bar Chart

- Create a bar chart by counting the amount of passenger of with the **Survived** variable **by Gender**
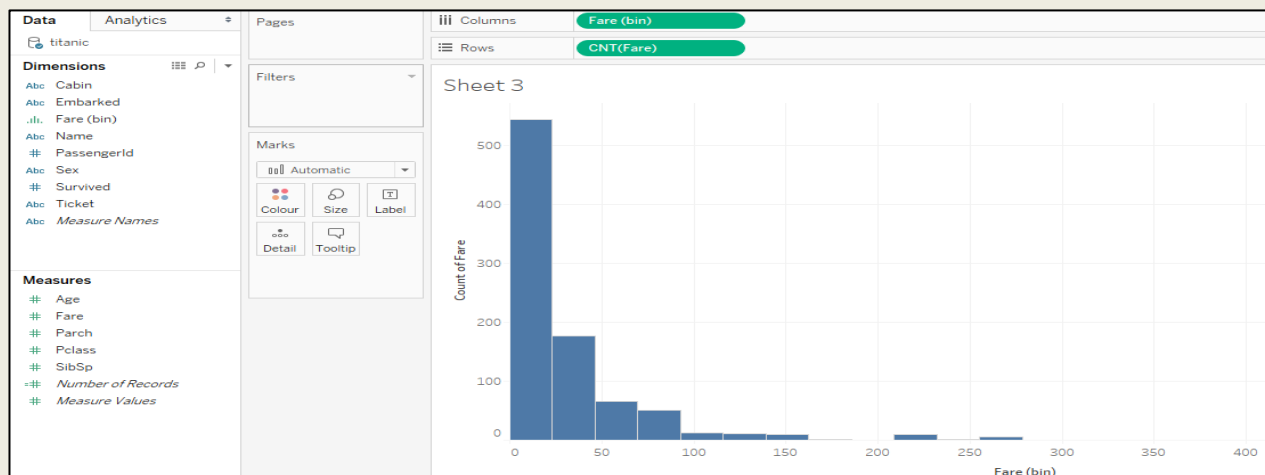
Ex 3: Proportions

- Create a **bar chart** or **pie chart** with the **proportion** of passenger from the **Survived** variable **by Gender**.

Solution:

– Click on Analysis >

– Percentage Of.

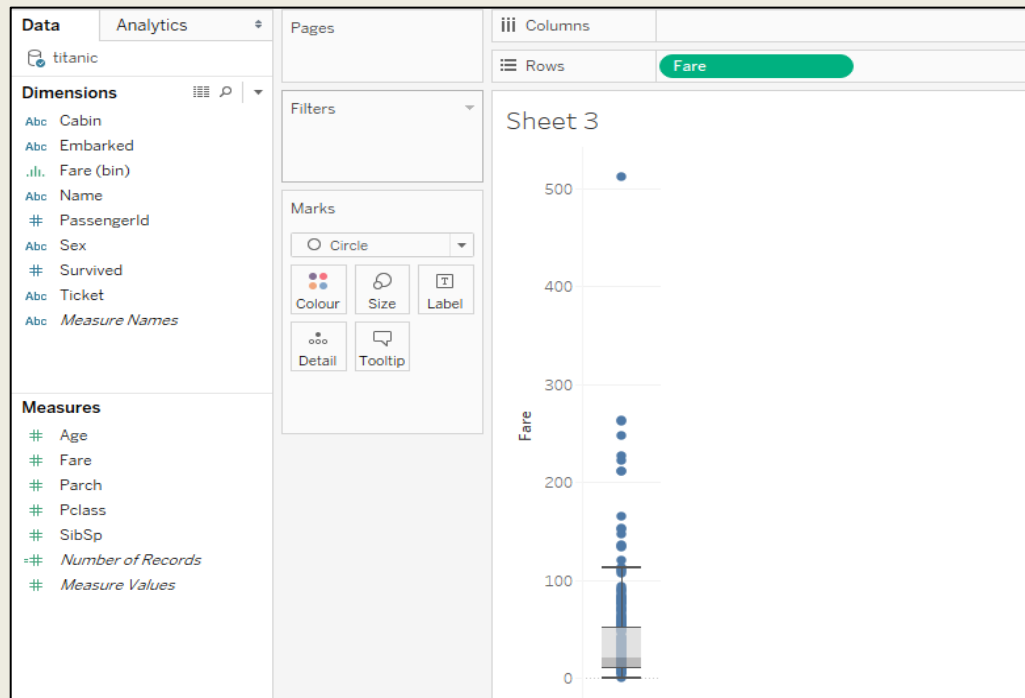– Select which of Table/ Row / Column / Pane is the most relevant for you

Ex 4: Histogram

- Create an **histogram** of the **Fare** variable

- Change the bin size by clicking on the new dimension called "**Fare(bin)**" and **Edit size of bins**.
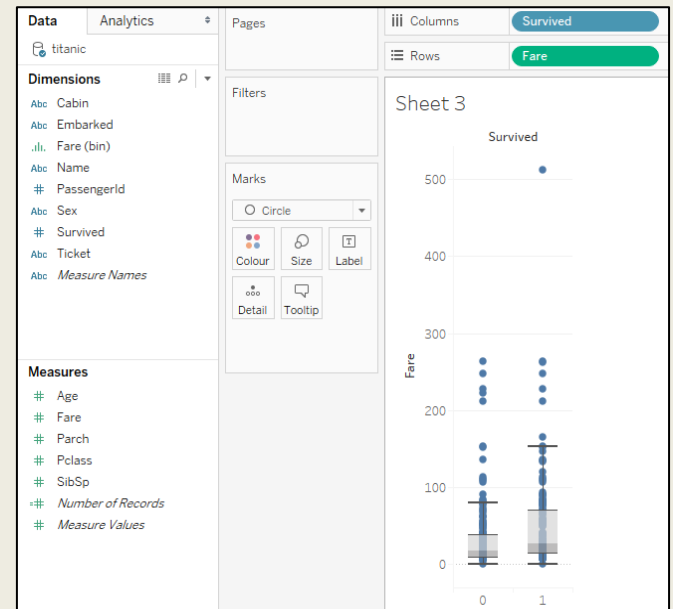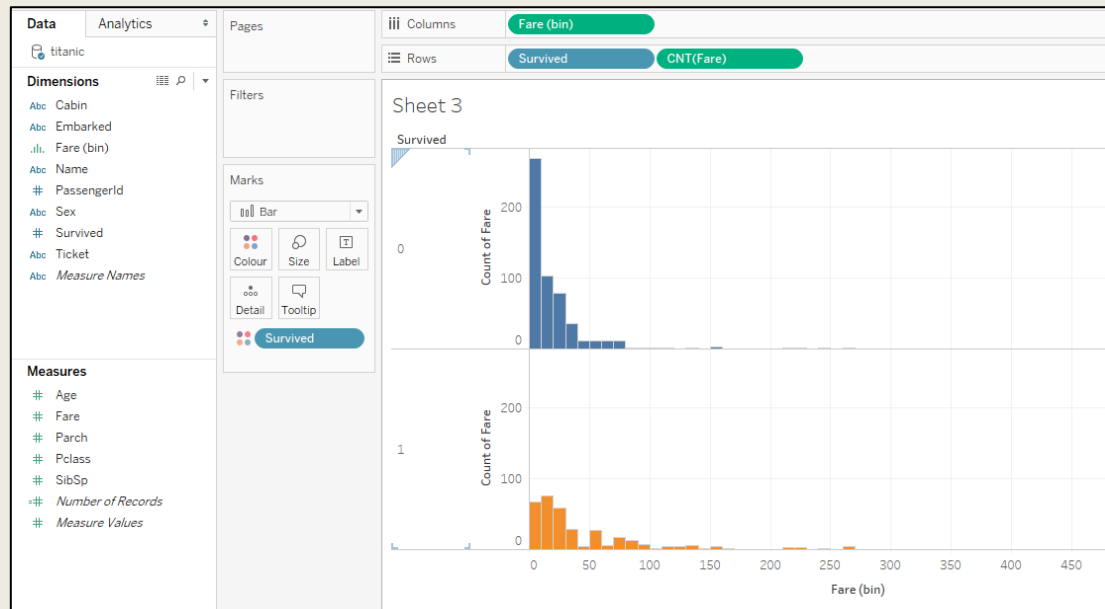
Ex 5: Box Plot

- Create a **box plot** of the **Fare** measure by clicking on the variable and selecting **Dimension**
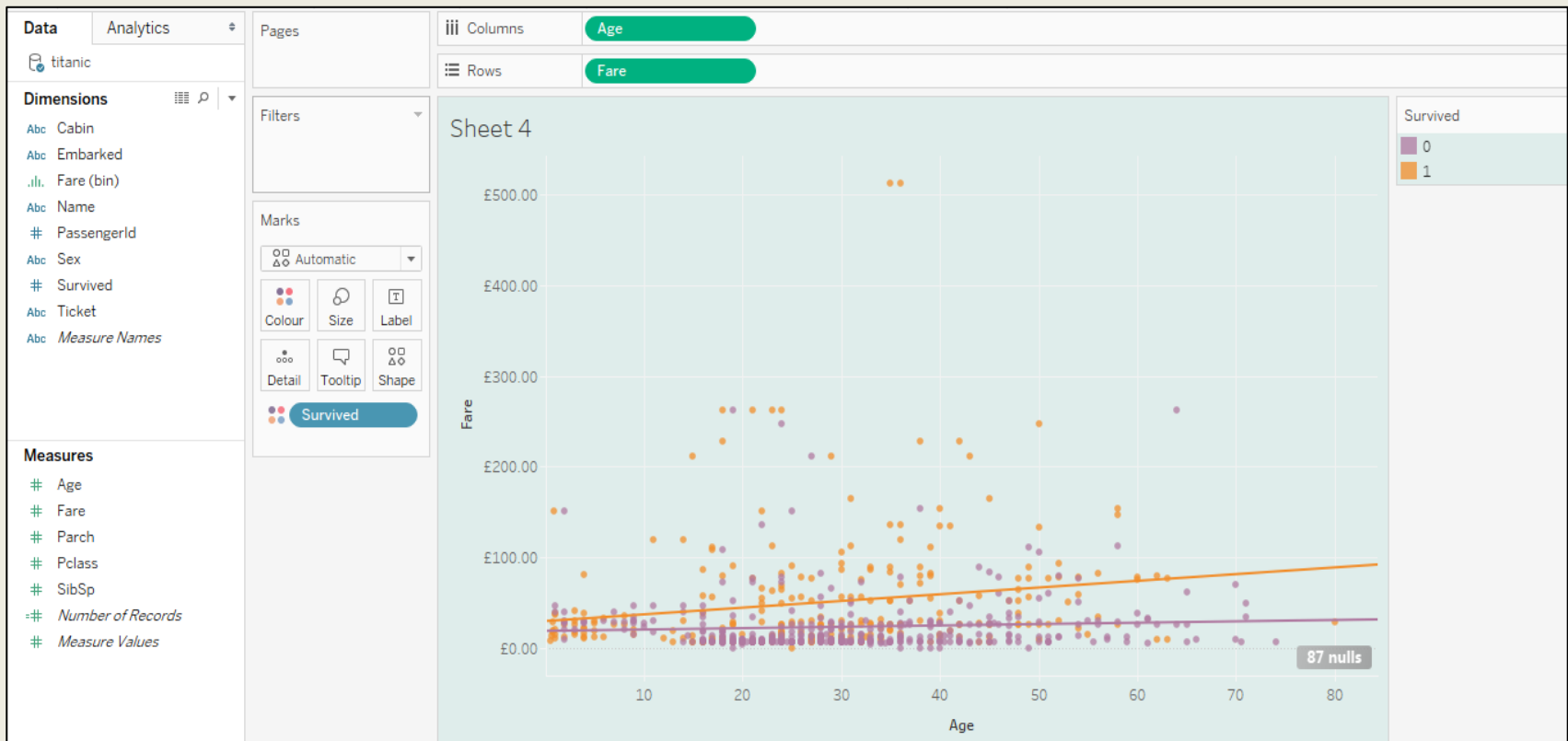
Ex 6: Histogram + Box Plot

- Create an **histogram plot** and a **box plot** of the **Fare** measure by **Survived** variable

Ex 7: Scatterplot

- Create a **scatterplot** of **Fare** by **Age** and split using the **Survived** variable

Ex 8: Dashboard

- **Create a Dashboard** with the titanic dataset using figures that are new and/or already created

- It has to **tell a story**:
  - Add a title
  - Add text boxes and pictures
  - Add legends

- It has to **be beautiful**:
  - Change default colours
  - Customize shapes, interactive hovers ...

QUESTIONS?