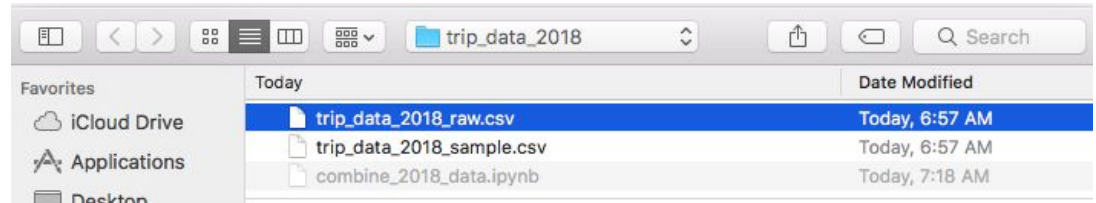
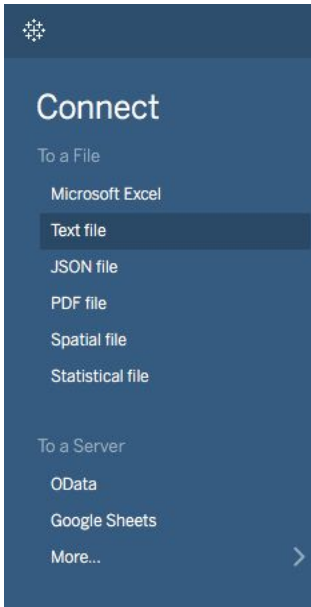
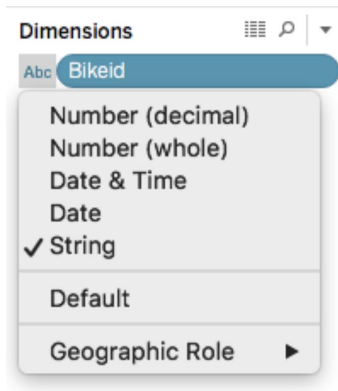


Complete the following data cleaning and preparation steps for the dataset provided in the mission prompt:

1. Download the file named **trip_data_2018.csv**, found in the [data folder](#).
2. Open a new Tableau Workbook, and in the Connect/Open page, click on **Text file** and navigate to where you downloaded the csv file from the previous step.

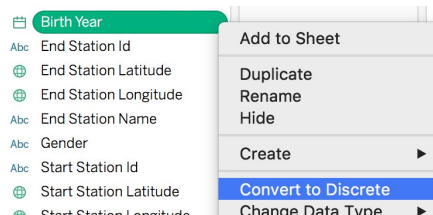


3. Click on **Update Now** to preview the data.
4. Change the datatype to **String** for the following fields:



- Trip Id*
- Start Station Id*
- End Station Id*
- Bike Id*
- Gender*








5. Change the datatype to **Date** for the *Birth Year* field
6. Go to *Sheet 1*, and convert *Birth Year* to a **discrete** field (if not already set as discrete).






7. Make sure the fields in the data pane are listed under Dimensions and Measures as follows:

Dimensions

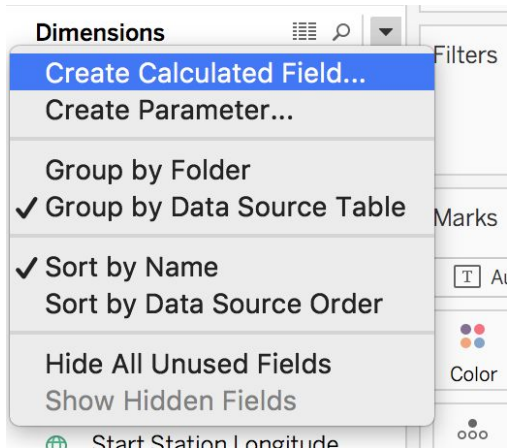


- Abc Bikeid
-  Birth Year
- Abc End Station Id
-  End Station Latitude
-  End Station Longitude
- Abc End Station Name
- Abc Gender
- Abc Start Station Id
-  Start Station Latitude
-  Start Station Longitude
- Abc Start Station Name
-  Starttime
-  Stoptime
- Abc Trip Id
- Abc Usertype
- Abc *Measure Names*

Measures

-  Tripduration
-  *Number of Records*
-  *Measure Values*

8. Click on the drop down menu near **Dimensions** and click on **Create Calculated Field...** as shown below:



9. Create the **User Age** field as shown below, using this formula:
YEAR([Starttime])-YEAR([Birth Year])

User Age ×

`YEAR([Starttime])-YEAR([Birth Year])`

▶

The calculation is valid.

Apply OK

10. Create the **Gender Label** field as shown below, using this formula:

× Gender Label

```
IF [Gender] = "0"  
  THEN "Unknown"  
  
ELSEIF [Gender] = "1"  
  THEN "Male"  
  
ELSEIF [Gender] = "2"  
  THEN "Female"  
  
END
```

```
IF [Gender] = "0"  
  THEN "Unknown"  
ELSEIF [Gender] = "1"  
  THEN "Male"  
ELSEIF [Gender] = "2"  
  THEN "Female"  
END
```

The calculation is valid.

ApplyOK

11. Create the **Trip Duration (min)** field as shown below, using this formula:

[Tripduration]/60

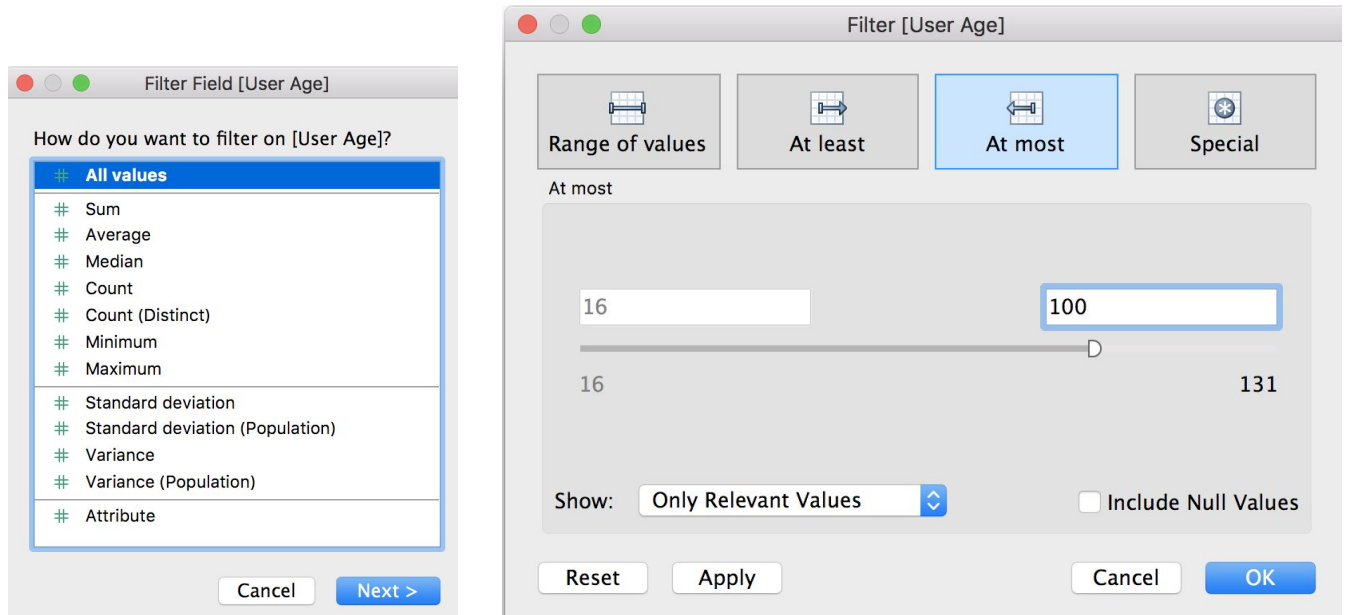
× Trip Duration (min)

```
[Tripduration]/60
```

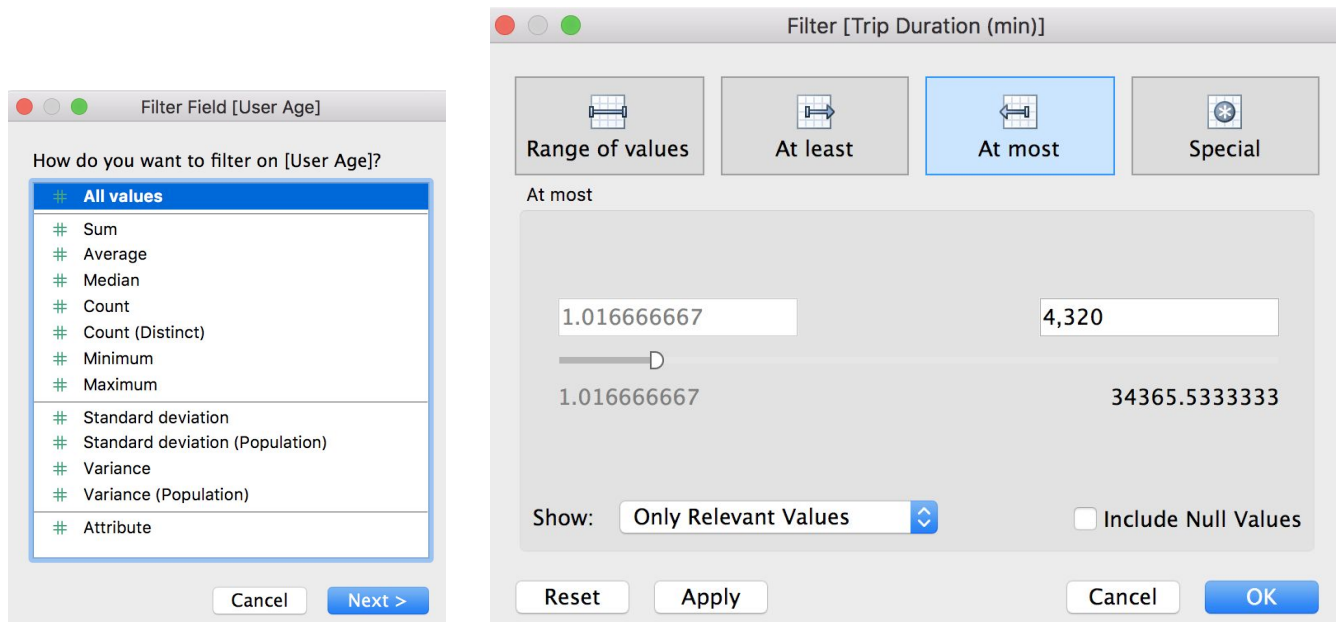
The calculation is valid.

ApplyOK

12. Drag the User Age field to the Filters Card to create a **filter for User Age** that *excludes any values greater than 100 years* as shown below:



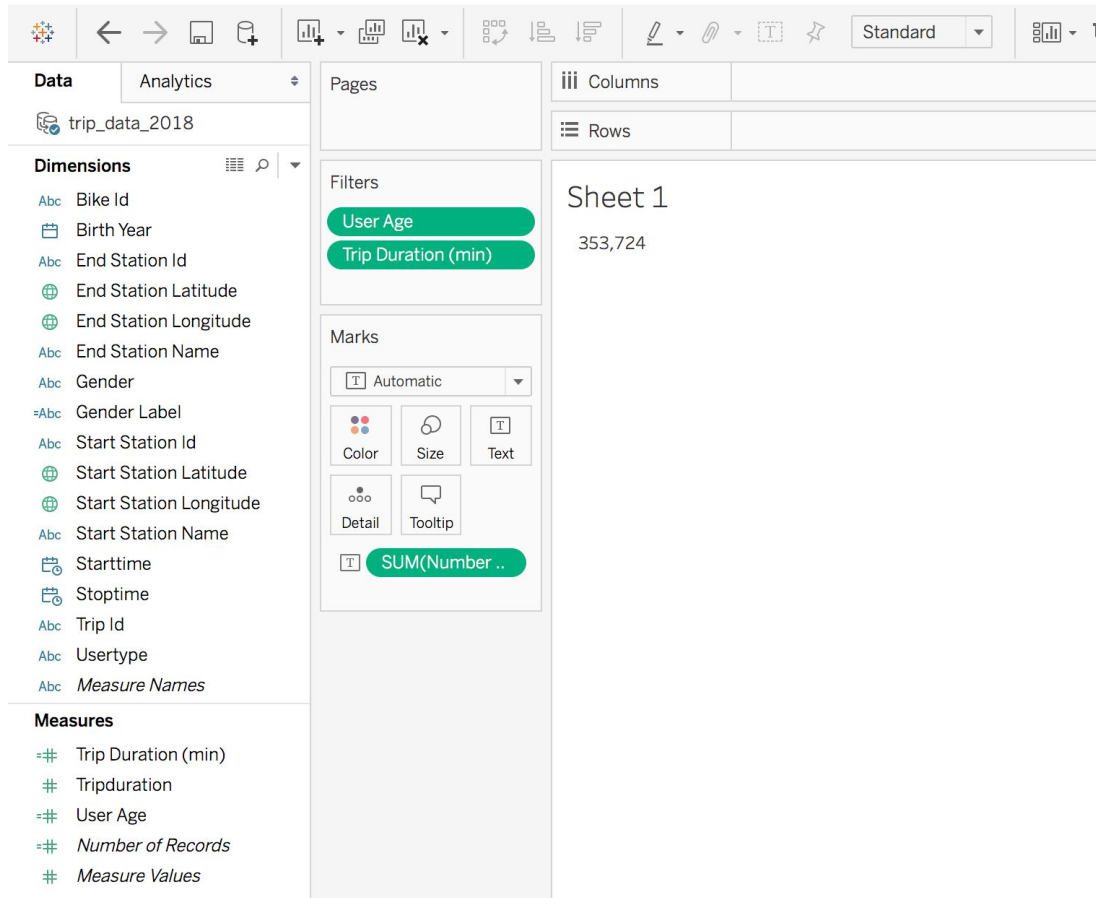
13. Drag the Trip Duration (min) field to the Filters Card to create a **filter for Trip Duration (min)** that *excludes any values greater than 4,320 minutes (72 hrs)* as shown below:



14. Drag and drop the field **Number of Records** (found under **Measures**) into the middle of the sheet. Tableau will aggregate the field, and it will show as **SUM(Number of Records)**.

Number of records with filters: 353,724

Your screen should look similar to the one below:



15. Go ahead and take a moment to **save your Workbook**. Be sure to save often.

