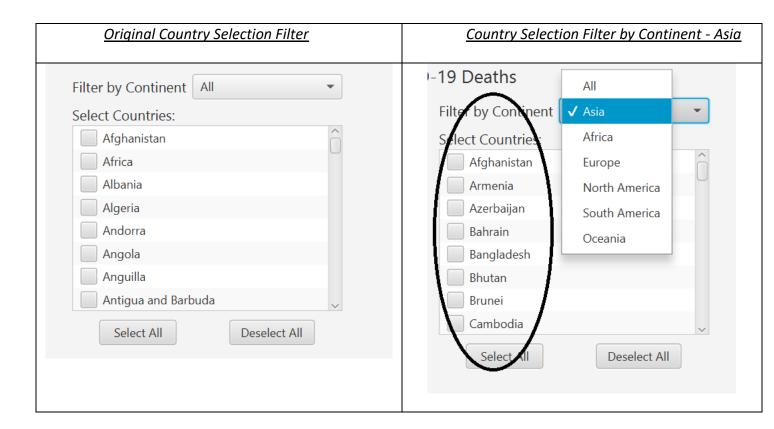
Supplementary Notes for Chart-Generating Task B2

0. Additional features 0.1, 0.2, 0.3 – Mentioned in Shared Supplementary Backend

1. Additional feature 1 – Country Selection by Continent

The feature allows user to filter countries on the country selection view based on the continent they belong to. The sample implementation of the feature has been given below:

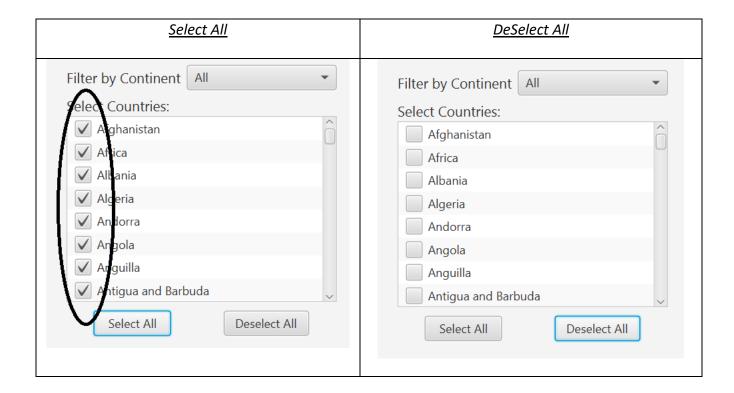


As noted in the image comparison above, only the nations that belong to Asia were displayed after selecting Asia from the Choice Box.

2. Additional feature 2 – Select/Deselect All

The feature allows user to select or deselect all countries on the country selection view.

The sample implementation of the feature has been given below:



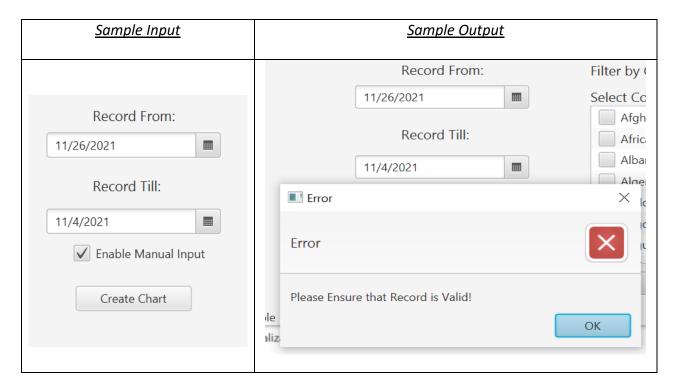
3. Important Note about Input Validation Basic Requirement

For basic validation requirement, I had customized settings such that user could, by default, only select dates using date picker. This way, the user could only select dates from country list selection and date picker selection, making it impossible for them to have syntactical input errors.

The following steps have been taken to prevent logical errors:

3.1. Never Allow Record Till to be less than Record From

For logical errors, an alert box will be displayed if the Record Till is detected to be less than Record From. A sample image is displayed below:



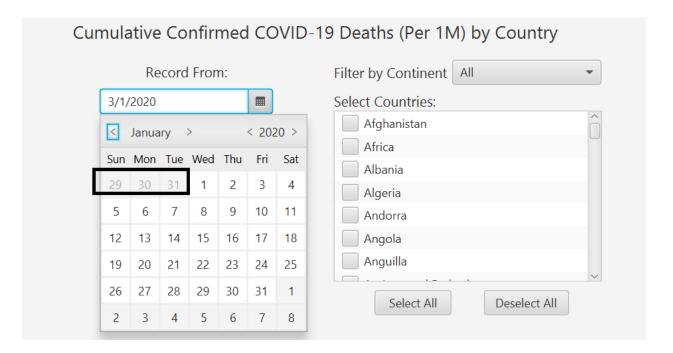
3.2. Restrict Possible Date Range

Range of dates in CSV is from 1/1/2020 to 7/20/2021. So, we cannot select dates beyond the range from date Picker.

Figure: Cannot Select dates beyond 7/20/2021

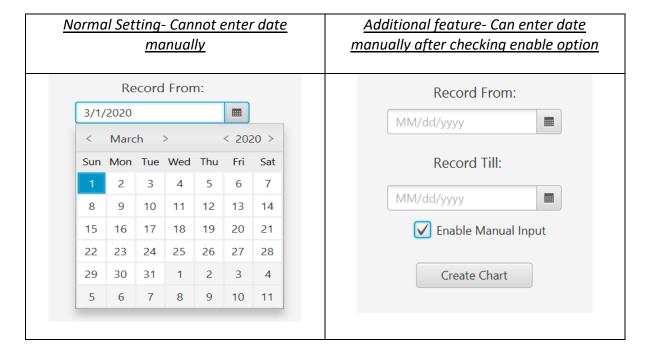


Figure: Cannot Select Dates before 1/1/2020



4. Additional feature 3 – Enter Date Manually

However, as an extension, I have created an enable manual input option that allows the user to manually type data in addition to using date picker.

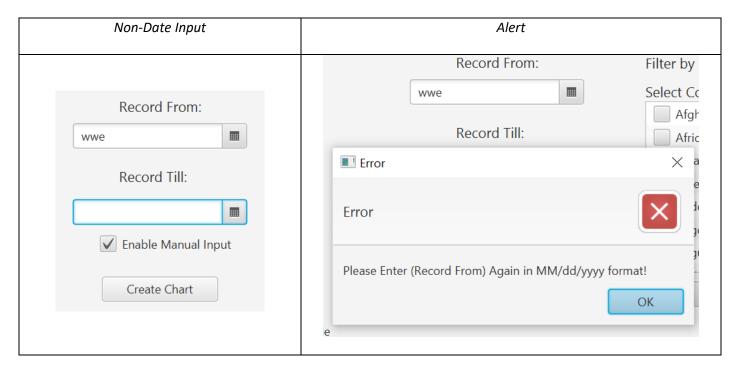


5. Additional feature 4.5 - Date Validation in Enable Input

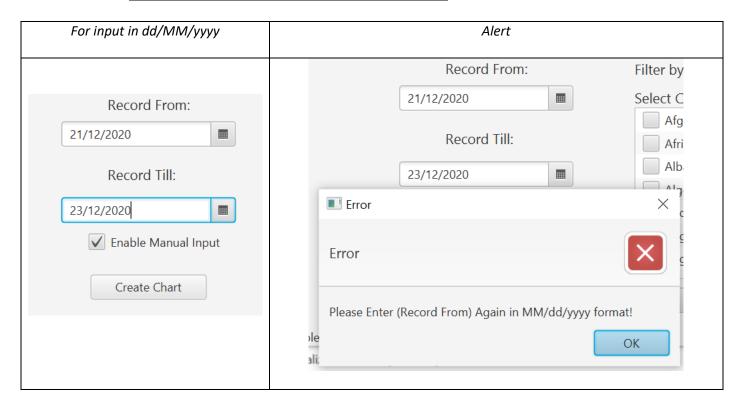
Additional validation features have been added to validate the additional feature -

Enable Manual Input. Some samples of validation have been provided below:

Situation 1: If User gives input that in not a date



Situation 2: If User gives input in incorrect format



Situation 3: Validation of leap year

