**INSTRUCTIONS**

* *You will be performing the steps using Tableau.*
* *The deadline is 9:40 PM.* ***The late penalty is 10% for every 30 minutes you submit after the deadline.***
* *Post the screenshots in a word document and submit the document on Blackboard.*
* *FORMAT the document properly (****Mislabeled screenshots will not be marked****)*

1. Connect to US crime data set available on Black. (1 Mark)

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1. Check the list of fields in Dimensions and Measures. If **Record ID** is in Dimensions, drag and drop it from Dimensions to Measures. (1 Mark)

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1. Show and **explain the steps** to create the following visualization.

It counts the number of incidents for each state. Also display the count of incidents/records on top of each bar. Sort the data so that the state with the highest count of incidents is at the beginning of the graph. (3 Mark)

Steps:

* Drag and drop the State into column and recordID into row.
* Click on the mark label on the toolbar to see the label.
* Select count which is under the recordId field from the drop down.

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1. Show and **explain the steps** to create the following visualization.

This shows the count of incidents/records over a period of years. The two lines represent whether the crime was solved or not. Also display the count of incidents/records for each year. (5 Mark)

Steps:

* Drag year and drop into the column.
* Drag recordID and drop into the row section.
* Cout the incidents by clicking count from the options in recordID field.
* Drag crime solved and drop into the color field.
* Arrange descending from highest to lowest.

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1. Show and **explain the steps** to create the following visualization that shows the count of incidents/records for various Weapons. Create a group that combines Drowning, Explosives, Fall and Poison weapons and use that in the visualization. Also add the breakdown for gender of the victim. (5 Mark)

Steps:

* Find the weapon in the data source tab.
* Right click on the weapon and select create group.
* Select drowning, explosives, fall and poison to create the group and click ok.
* Drag the combined weapons group and drop into the row section.
* Dran victim sex and drop into color section.
* Drag the recordID and drop into the column section.
* To edit the axes for 10k intervals right click on the count of the recordID.
* Click tick marks and click on the fixed under the major tick marks.
* Enter tick interval from 0 to 10000.

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1. Show and **explain the steps** to create the following visualization. This shows the Victim age against the sum of Victim Count. Create a filter so that only the victims between the age of 20 and 30 Years are included in the visualization. Also add a color descriptor and count based on the gender of the victim. (5 Mark)

Steps:

* Drag victim age and drop into the row section.
* Drag sum of victim count and drop into column section.
* Drag the victim age and drop into filters section.
* In the filter dialog, select the discrete option and click on the checkboxes from 20 to 30 years.
* Click ok to apply the filter.
* Now, Drag the victim sex into the color section.

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