**HCDE 511 – Assignment 3 Exploratory Data Analysis**

**Names:**  AK - Abhigyan Kaustubh, solo

**Dataset: world**

**Grading: 50/50 pts**

*Assignments were graded based on:*

(4/4 pts) Clear questions and applicable dataset:

Good initial questions, well correlated to question types.

(4/4 pts) Basic description of dataset contents, size & perceived quality:

Excellent, complete description.

(10/10 pts) The description of your visual exploration process:

Very good; thorough recording of your process.

(12/12 pts) Major view types included (bar charts, scatter plots, maps and time series) with appropriate related questions:

Nice work. Thoughtful encodings and explorations, well founded in class material. Good exploration of the effectiveness of different views in revealing insights for different questions and datatypes.

The table lenses in Figure 15-16 are a good way to look for correlation across multiple measures at once. Figure 18b and similar views are particularly nice, especially showing the year progression on size of mark.

(4/4 pts) The depth of your analysis (eg, sorting, filtering, removing outliers, focusing in on selected points, changing representations, following the unexpected):

Well done. Thorough exploration of many health measures in Africa presents a quite detailed picture of state and its recent progress.

Note that Haiti suffered a major earthquake in 2009, which strongly affected its infant mortality because much infrastructure of housing and medical care was destroyed.

(12/12 pts) The design of your final visualizations

Instructive image (does it answer the question?)

Appropriate caption and description

Expressiveness/effectiveness of the visualization:

Very good. Your report includes many carefully constructed views that present information well, including small multiples and table lenses. Your views address your questions well, with good captions and titles, clear axis labeling including units, and legends and indications of filtering when needed.

Impressive creation of interactive views also, including brushing and linking in your dashboards!

A comment: Many of your views are very detail-oriented. Visualization can indeed show many details much more clearly than large tables of numbers, but sometimes simpler views and patterns can also be quite revealing – many charts of details are not always more convincing. But you really put Tableau through its paces!

(4/4 pts) Comments and evaluation of the visualization tool including any improvements you might make:

Thoughtful comments and suggestions. You have certainly gained significant experience with Tableau, which will likely continue through the remainder of the quarter if you use Tableau for your project work.

For example, note that Tableau does allow importing your own set of Marks. Also, Tableau Data Extracts use a more efficient storage algorithm, so that is available if you choose.

Additional Comments:

Good explorations -- you created a wide variety of views, well matched to the questions and fields being explored. You clearly learned a lot about the challenges of interpreting and exploring an unfamiliar dataset, the process of exploratory data analysis, and using Tableau. You went into much more detail than we expected, and your effort really shows!