**Schema Design Practice**

https://tinyurl.com/485-data-viz

1. How did Hans Rosling arrive at the number 120,000 for the number of data points shown in the visualization? Show your computation.

200 countries(rows) \* 200 years \* 3 values per row representing country (income, lifespan, population) = 120,000

1. Give a relational schema to represent the data to support the visualization from the video. In other words, give the tables and attributes for data that would be stored so that it can be queried to give the information shown in the video.

Underline primary keys. Indicate any foreign keys and what they refer to.

PopulationAndLifespan

countryId INT,

countryName VARCHAR(50),  
 **populationID INT** (links to Population table),

**lifespanID INT** (links to Lifespan table),

Population

id INT (Foreign Key to populationID in PopulationAndLifespan,

year INT,

population INT

Lifespan

id INT (Foreign Key to lifespanID in PopulationAndLifespan,

year INT,

lifespan DOUBLE