Background Information

1. Traumatic brain injuries (TBI) can be categorized into six causes:

    - Motor Vehicle Crashes
    - Unintentional Falls
    - Unintentionally struck by or against an object
    - Other unintentional injury, mechanism unspecified
    - Assault
    - Other or no mechanism specified

2. TBIs can have have three outcomes:

    - Emergency department visits
    - Hospitalizations
    - Deaths

3. Any outcome of TBI can be as a result of any cause. Similarly, any cause can result in any of the outcomes.

4. Each occurrence of TBI can be classified by age groups.

5. Each occurrence of TBI can be classified by year.

Data cleaning

- age_table has missing values on number and rates for intentional self injuries. Deliberate on leaving this cause out of the analysis.
- Removing the 14 May entries
- Removing the totals from age_group column
- reassigning values for mechanisms and causes for easy manipulation with sql
    - emergency department visits = 200, hosp.= 201, deaths = 202
    - motor vehicle crashes = 100, unintentional falls = 101.... etc

Revised insights

Main problem

- What is the burden of tbi in the US?
    - age distribution of tbi ie most affected groups
    - leading causes of tbi
        - in terms of age group
        - in terms of year
    - which causes result in most
        1. EDV
        2. hospitalizations
        3. deaths
    - trends of tbi (numbers and rates) from 2006 to 2014 in terms of
        1. outcomes
        2. mechanisms

.... and so on