MiniProject: Mining Accident Reports

## Project Objective

Employers are required to report any serious work-related injuries and death to the authority. This information helps employers, workers and the authority to evaluate the safety of a workplace, understand industry hazards, and implement worker protections to reduce and eliminate hazards.

An example of such accident report is shown below:

Employee Suffers Burns When Caught In Flash Fire

At approximately 9:30 a.m. on September 3 2013 Employee # 1 was heating hot asphalt oil spray wand using a propane torch. During the heating of spray wand a coworker attempted to reposition the wand and accidentally pressed the nozzle control handle that blow out hot oil and diesel. A flash fire occurred and caught Employee #1's clothing on fire. The coworker responded to the accident and drove the employee to an area hospital where he was treated for second degree burns to his neck and arms. Employee #1 remained hospitalized.

In this mini-project, assume you are engaged by a client to perform text mining on the accident reports to help find answers to the following questions:

1. **What are the major types of accidents reflected in the reports?**
2. **Which type of accidents has the largest number of occurrences?**
3. **What are the more risky occupations involved in such accidents?**
4. **Which part of the human body is injured most?**