**Hospital Care Quality Analysis Case Study**

Falls that occur in hospitalized patients are common and serious threat to patient safety. There are various factors that could contribute to patient fall, for ex. Patient condition, location, drugs, time and nursing staff etc.

You need to help Health Care Facilities to analyze patient fall ratio based on these factors to reduce number of falls and provide the information required to develop a fall prevention mechanism.

The attached Excel file has data to be used for developing solution.

1. **Export data into SQL Server and design data model i.e. create necessary primary and foreign keys, modify data types etc.**



1. **Leverage Power BI for designing following dashboards**

**Fall Statistics**

* Witness/un-witness Fall %
* Level of Injury % breakup
* Patient in Cohort Room
* Fall % by Patient Activity

**Risk Analysis by Shift & Nurse**

* Fall rate per Shift
* Fall Rate During Shift Overlap
* No of Falls for each hour block
* Fall rate by Nurse Activity

1. **Predict the likelihood of “major injury” from a fall based on available factors. Also highlight the factors with significant influence on likelihood of major injury.**