1. To record the patient statistics, the agency wants to find the age category of people who frequently visit the hospital and has the maximum expenditure.

Ans – The Age group of People ‘0’ are the most frequent visitors with the frequency of 306 and the Most expenditure as well.

1. In order of severity of the diagnosis and treatments and to find out the expensive treatments, the agency wants to find the diagnosis-related group that has maximum hospitalization and expenditure.

Ans – Age Group of 0 is the diagnosis related group who has has the maximum expenditure.

1. To make sure that there is no malpractice, the agency needs to analyze if the race of the patient is related to the hospitalization costs.

Ans – Correlation table shows there is negative correlation between Race and Hospitalization costs, so it is not any way dependent.

1. To properly utilize the costs, the agency has to analyse the severity of the hospital costs by age and gender for the proper allocation of resources.

Ans - age\_gender data frame shows the actual Analysis.

1. Since the length of stay is the crucial factor for inpatients, the agency wants to find if the length of stay can be predicted from age, gender, and race.

Ans – No, the correlation between LOS against AGE, GENDER and RACE is very low they seem to be no way correlated to LOS.

1. To perform a complete analysis, the agency wants to find the variable that mainly affects hospital costs

Ans – Hospital Costs are mainly dependent on LOS with higher correlation of 0.62313355.