Data Analysis assignment

Procedure:

After reading the data set with the Pandas script, the following operations were carried out on either the entire data set, or specific columns.

- head( )
- tail( )
- describe( )
- sort_values( )
- **.**shape[0] <To find the length of the dataframe>
- value_counts( )
- nunique( )

Analysis:

A number of quantitative operations were then run, to find out the survival rate among:

- Passengers who paid a high fare (More than £100)
- Female passengers
- Female passengers who paid a high fare
- Passengers who paid a low fare (Less than £50)

Results:

The following survival rates were obtained:

- Passengers who paid a high fare : 73.58%
- Female passengers : 74.2%
- Female passengers who paid a high fare : 94.11%
- Passengers who paid a low fare : 31.91%

Inferences:

1. The female passengers were definitely evacuated first, thus explaining their higher survival rate.
2. The passengers who paid higher fares were given higher priority, hence explaining the massive jump in their survival rates.