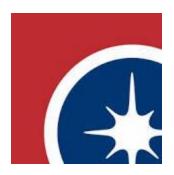# SPAR NORD BANK - DENMARK

The dataset contains all the withdrawal transactions made in Spar Nord ATMs in 2017, information about the location of the ATM, manufacturer, currency, card type, weather conditions, etc. Please revert to the data dictionary for a complete overview of the variables.

Questions:

1. ATMs availability: Down times affect ATMs availability hence negatively impact customer experience. In the light of the given data elements, can you support the ATM business with insights on the machine's availability during 2017?
    For instance, were there specific ATMs that needed replacement/maintenance?
    If any, are they still active or already replaced?

2. Down times are not only caused by fault in machines. Cash replenishment and regular maintenance activities also cause the ATMs to be out of service for a while.
    In the light of given data elements, can you propose a high-level schedule for Cash replenishment or regular maintenance activities?

3. ***Bonus:*** In order to better cater for spar nord customer, we need to understand where to locate our ATMs to ensure maximum coverage. In the light of given data elements, can you name top 10 locations used by our customers?

Please feel free to answer the above questions in any format. Table, chart or even words. Be creative and imaginative as much as you want and have fun 😊 !