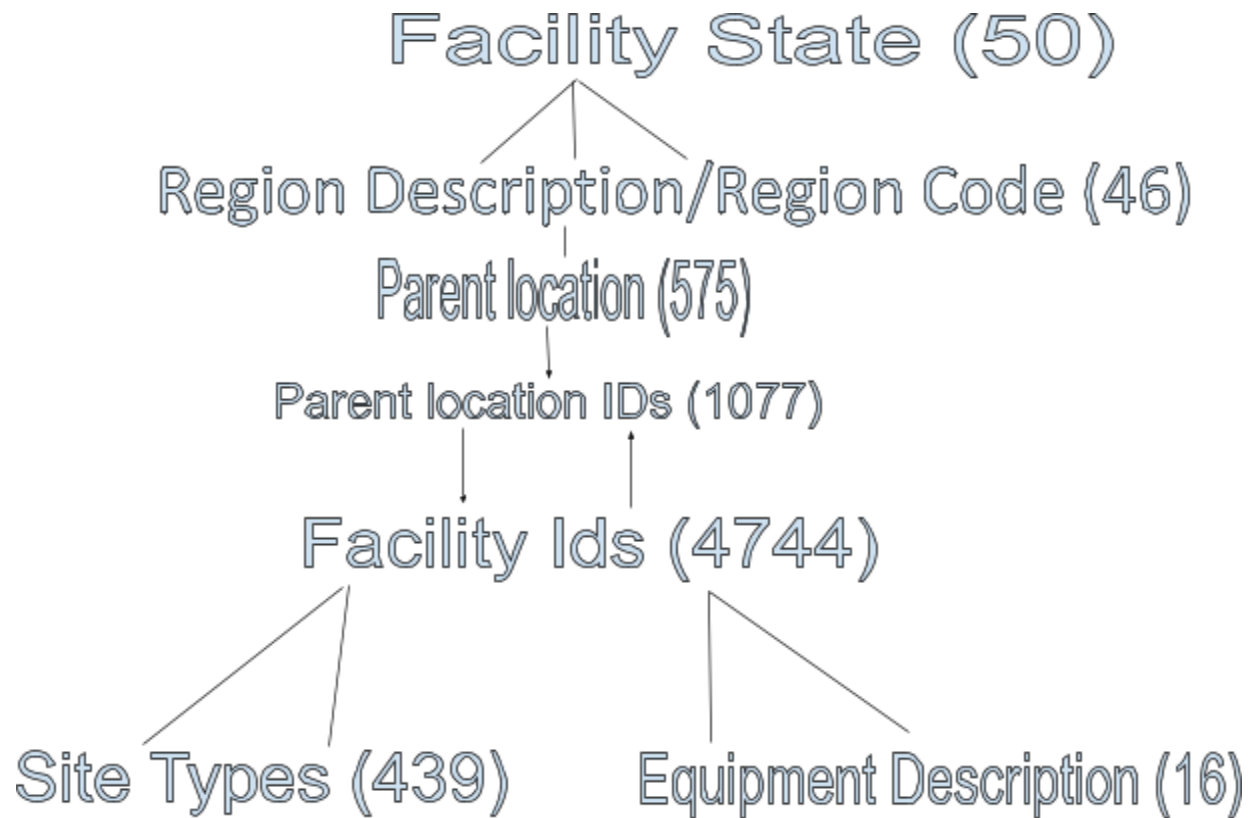


Summary Analysis from the DW sheet

1. Total Number of columns - 35
2. Total Number of rows - 8984097
3. Total unique Region codes- 47
4. Total unique Region Description- 46
5. Total unique Parent location Ids- 1077
6. Total unique Parent location - 575
7. Total unique Site Types - 439
Eg array(['STANDARD NONELECTRIC', 'GROUP TENT ONLY AREA NONELECTRIC', nan, 'GROUP SHELTER NONELECTRIC', 'TENT ONLY NONELECTRIC', 'Nature Tour', 'Hike', 'Historic Tour', 'CABIN NONELECTRIC', 'GROUP STANDARD NONELECTRIC', 'Day Use Fee', 'Buckskin Gulch Day Use – Activity Scan and Pay', 'Wire Pass Day Use - Activity Scan and Pay', 'White House Day Use - Activity Scan and Pay', 'Entrance',
8. Total unique User Type - 5
Eg array([nan, 'Overnight', 'Day', 'Activity', 'Multi'], dtype=object)
9. Total unique Inventory type -14
Eg (['CAMPING', 'LOTTERY_CAMPING', 'TICKET', 'ACTIVITY PASS', 'DONATION', 'PERMIT', 'LOTTERY_PERMIT', 'VEHICLE_PERMIT', 'TIMED_ENTRY', 'VENUE_RESERVATIONS', 'LOTTERY_TICKET', 'QUEUE_LOTTERY', 'RENTAL', 'TREE_PERMIT'],
10. Total unique Facility IDs - 4744
11. Total unique facility states - 50
12. Total unique Equipment Descriptions - 16
Eg - array(['Tent', nan, 'Large Tent Over 9X12', 'Vehicle', 'Pop up', 'RV', 'Car', 'Trailer', 'Fifth Wheel', 'Caravan/Camper Van', 'Pickup Camper', 'Small Tent', 'Boat', 'Hammock', 'RV/Motorhome', 'Horse'], dtype=object)
13. There are 22 categorical and 13 non-categorical columns



Find the Null values and percentage

1. There are 15111 missing values in region description and region code column which is about 0.168% -

Below are the columns having the most missing values with % in dataset

tranfee	100.000000
usefee	100.000000
attrfee	99.999955
equipmentdescription	57.044275
equipmentlength	54.079681
usetype	51.327807
legacyfacilityid	39.793159
sitetype	36.533455
numberofpeople	35.360749
enddate	31.648445
nights	31.628766
facilityzip	22.977167
facilitystate	22.822372
customerzip	19.655876

facilitylongitude	18.694901
facilitylatitude	18.694901

Questions answered from Analysis

1. Calculate how many sites are associated with each region.
2. Calculate how many equipment descriptions are associated with each region.
3. Calculate how many regions are associated with each facility state.
4. Created df by Calculating the missing values per region for each inventory type
5. Created df by Calculating the missing values per region for each site type
6. what columns are categorical what not categorical
7. Created dataframes to calculate the (null,min,max,stdev) for numerical columns (eg number of people) per region per inventory type (eg camping)
8. Created dataframes and csv files for categorical columns to count the number of eg. site types per region and per inventory type
9. Created dataframes and csv files for categorical columns to count the number of eg. facility state per region and per inventory type.