AnalisisyCuracion_Parte-II_Curation

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0.1 ANALISIS DE TENDENCIAS DE CONSUMOS E INFRAESTRUCTURAS

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```
[]: import pandas as pd
  import numpy as np
  import warnings
  import glob
  import zipfile
  import seaborn as sns
  import matplotlib.pyplot as plt
  from datetime import datetime

  import plotly.graph_objs as go
  import plotly.offline as plotly
  from plotly.subplots import make_subplots

import matplotlib.dates as md

[]: #pd.set_option('display.max_columns', 50)
```

LOAD TRANSACTIONS

```
[]: df_transa.drop(columns=c2drop, axis=1, inplace=True)
[]: df transa[:5]
[]: df_transa[pd.isna(df_transa['cantidad'])]
[]: df_transa.dropna(subset=['cantidad'], inplace=True)
[]: len(df_transa[df_transa['cantidad'].astype('string').str.contains(',')])
[]: df_transa['cantidad'] = df_transa['cantidad'].astype('string').str.replace(',',_u

¬'.').astype('float64')
[]: df_transa.dtypes
: df_transa.shape
[]: df_transa = df_transa[df_transa['cantidad']>=0]
   df_transa.shape
[]: df_transa = df_transa[~(df_transa['fecha']<'2018-01-01')]
   df_transa.shape
[]: df_transa[df_transa['id_equipo'].isna()]
[]: df_transa[['id_vehiculo', 'cantidad']]
  LOAD SITES
[]: df_equipo = pd.read_csv('../dataset/data_csv/fs_equipo.csv')
   df_equipo.columns
[]: df_equipo.drop(axis=1, columns=['direction_ip', 'pass', 'sync', 'online'],
    →inplace=True)
[]: df_equipo.shape
[]:
  LOAD COMPANIES
: df_emp = pd.read_csv('../dataset/data_csv/fs_empresa_tagged.csv')
[]: df_emp.columns
[]: df_emp.drop(axis=1, columns=['cuit', 'telefono', 'email', 'pais', 'id_pais', u

¬'provincia', 'ciudad', 'direccion', 'cp', 'ultima_fecha_sync_db'],
□
    →inplace=True)
[]: df_emp = df_emp.convert_dtypes()
   df_emp.dtypes
[]:
```

```
LOAD VEHICULES
```

```
[]: df_veh = pd.read_csv('../dataset/data_csv/fs_vehiculos.csv')
[]: df_veh.columns
[]: df_veh
[]: df_veh.drop(df_veh.loc[:,'id_equipo':'sync'], axis=1, inplace=True)
[]: df_veh
```

Merge Dataframes

```
[]: df_equipo.shape, df_emp.shape
[]: dfe = pd.merge(df_equipo, df_emp, on='id_empresa')
   dfe.shape
[]: df_transa.shape
[]: df = pd.merge(df_transa, dfe, on='id_equipo', how='left')
   df.shape
[]: df = df[df['baja']==0]
: df.shape
dfa = pd.merge(df, df_veh, on='id_vehiculo', how='left')
   dfa.shape
[]: dfa[['fecha', 'id_vehiculo', 'main_id', 'id_empresa', 'cantidad', 'segmento', |

→'id_tanque', 'id_bomba', 'empresa', 'descripcion']]
[]: list(dfa[dfa['id_empresa'].isnull()]['id_equipo'].unique())
[]: dfa = dfa.dropna(axis=0, subset=['id_empresa'])
   dfa.shape
[]:
[]: dfa[:5]
[]:
[]: #dfa.to_csv('../dataset/data_csv/sis_transa_201801_202007_merged.csv',_
    \rightarrow index=False)
```