

gsread

connect to gspread api_json file

```
gc = gspread.service_account(filename = 'hangvtkfd_api.json')
```

connect to googlesheet file

```
'sh = gc.open_by_url('https://docs.google.com/spreadsheets/d/1d-  
dDVYIh2isksM7PLvLEg_Rza6OqnYvgt1iEdanY8ODw/edit#gid=20-  
82271837')
```

update dataframe to a specific google sheet

```
df.fillna(fill_values, inplace=True)
```

```
values = [df.columns.tolist()] + df.values.tolist()
```

```
raw = sh.worksheet("raw")
```

```
raw.clear()
```

```
raw.update(values,1) insert data at the first row
```

append dataframe to a specific googlesheet

```
values = df_new.values.tolist()
```

```
sh.values_append("collection_pfm_metrics_raw", {'valueInputOption':  
'USER_ENTERED'}, {'values': values})
```

load data from googlesheet to dataframe

```
sh = gc.open_by_url('https://docs.google.com/spreadsheets/d/1H-  
hT2eENDafNKz5vZVKcpZR0LZJbMagg0AyCOKuMlsw/edit#gid=0')
```

```
raw = sh.worksheet("raw")
```

```
values = raw.get_all_values()
```

```
product_group = pd.DataFrame(values[1:], columns=values[0])
```

handling data before updating to googlesheet

```
fill na
```

```
df.fillna(fill_values, inplace=True)
```

```
convert date column to str format
```

```
df_new['week'] = df_new['week'].apply(lambda x: x.strftime("%Y-%m-  
%d"))
```

pandas

fill na, missing values

```
fill_values = {'A': 0, 'B': -1} # Specify the columns and their fill values
```

```
df.fillna(fill_values, inplace=True)
```

pivot dataframe

```
pivoted_df = df.pivot(index='MERCHANT_NAME', columns='WEEK',  
values='TOTAL_BOOKING').fillna(0)
```

define function for multiple aggregations within dataframe

```
def category_quantity_calculation(df, cl):
```

```
def DISBURSE_AMOUNT(df):
```

```
return df['DISBURSE_AMOUNT'].sum()
```

```
ranking_functions = {'DISBURSE_AMOUNT': DISBURSE_  
AMOUNT}
```

```
return_df = df.groupby(cl).apply(lambda group: pd.Series({key:  
func(group) for key, func in ranking_functions})).reset_index()
```

```
return return_df
```

filter rows that contain any na values

```
df_filtered = df[df.isna().any(axis=1)]
```

filter rows that contain na value in a specific column

```
rows_with_null = df[df['COLUMN_NAME'].isnull()]
```

```
rows_with_null = df[df['COLUMN_NAME'].isna()]
```

filter rows that contain len of specific string in column < 1

```
def filter_columns_by_length(col):
```

```
return all((len(str(cell)) < 1 for cell in col))
```

```
filtered_columns = df.loc[:, df.apply(filter_columns_by_length)]
```

Xử lý ngày tháng trong Python

Convert the 'date_string' column to a date

```
datetime column df['date_column'] = pd.to_datetime(df['date_string'])
```



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