

# How to use dataset in OpenDOSM

Using python programming

## Requirements







Internet access

Gmail account (login to GMAIL account)

URL data sources from OpenDOSM

## Step by steps

## **Notebook setup**

- 1. Login to your Gmail Account
- 2. Open new tab and go to <a href="https://github.com/booluckgmie/training/tree/main/python/OpenDOSM/opendosm.ipynb">https://github.com/booluckgmie/training/tree/main/python/OpenDOSM/opendosm.ipynb</a>
- 3. Add "tocolab"

   https://githubtocolab.com/booluckgmie/traini
   ng/tree/main/python/OpenDOSM/opendosm.
   ipynb
- 4. Ready to analyse using python



# OR create New Notebook

## Using Google Colab for Python



### **Google Colab Setup**

1.Visit the <u>Google Colab</u> page, which will direct you to the <u>Google</u> Colaboratory Welcome Page.

http://colab.research.google.com/

2. Click the **Sign in** button on the right top.

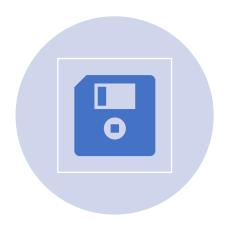
## Analysis



LOAD DATA FROM OPENDOSM



**EXPLORE DATASET** 



SAVE TO .CSV

## Retrieving PriceCatcher Data with Python



#### Start

1 Navigate to <u>open.dosm.gov.my/data-catalogue</u>

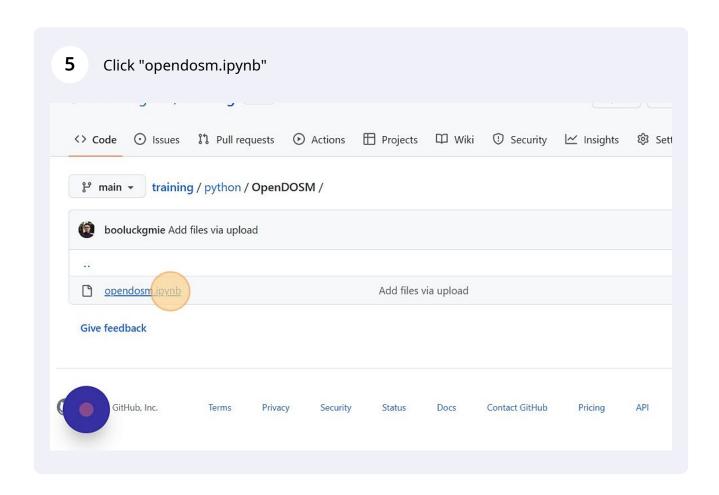
2 Click "PriceCatcher" **Commodity Prices** Consumer Prices **Economy: Consumer Prices** Economic Indicators Exchange Rates Core CPI CPI (Consumer Price Index) Household Income & Expenditure Core CPI: Clothing & Footwear CPI by State: Johor Core CPI: Communication CPI by State: Kedah Production Core CPI: Education CPI by State: Kelantan Labour Force National Accounts Core CPI: Food & Non-Alcoholic CPI by State: Melaka Beverages PriceCatcher CPI by State: Negeri Sembilan Producer Prices Core CPI: Furnishings, Household CPI by State: Pahang Equipment & Routine Household & Wages **Maintenance** CPI by State: Perak sale and Core CPI: Health CPI by State: Perlis



4

Switch to tab

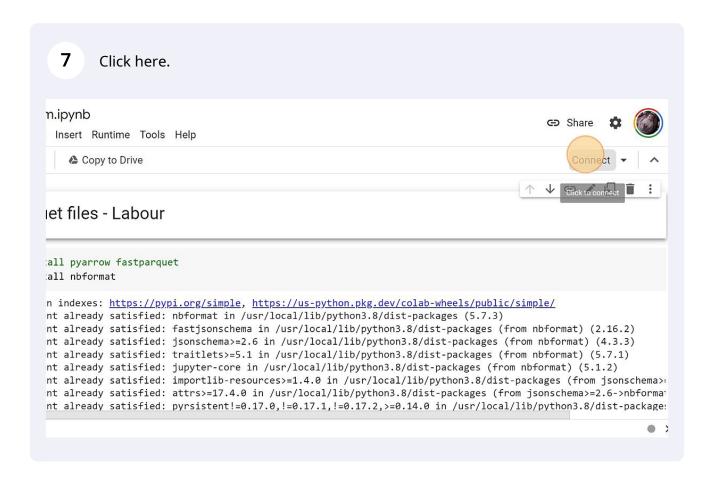
"https://github.com/booluckgmie/training/tree/main/python/OpenDOSM"

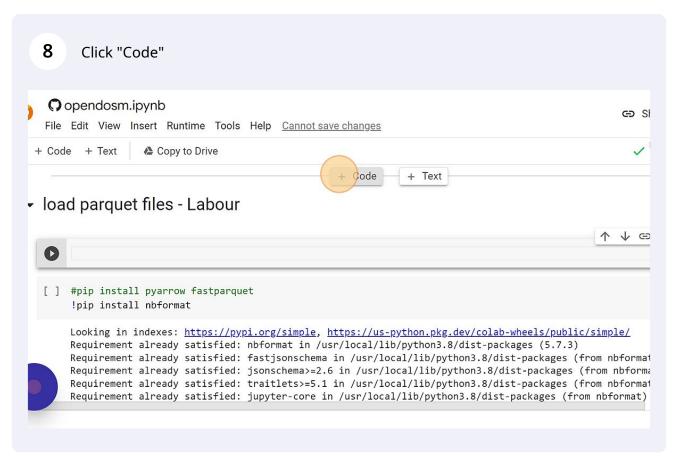


Add "tocolab" and Navigate to githubtocolab.com/booluckgmie/training/blob/mai...

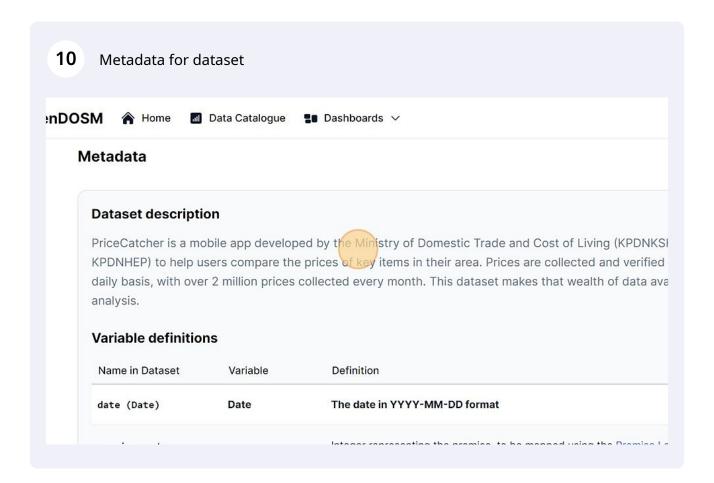
! Tip!
Alternatively, login to <u>colab.research.google.com</u> using your Gmail account to access the colab notebook and create new notebook.

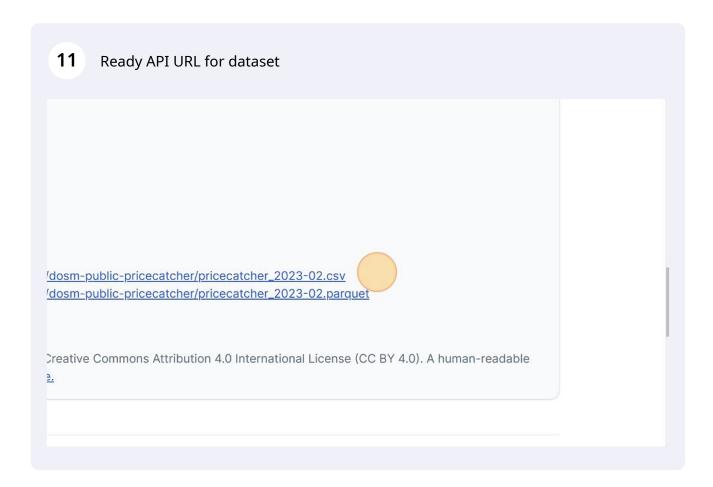
## Google Colab Environment

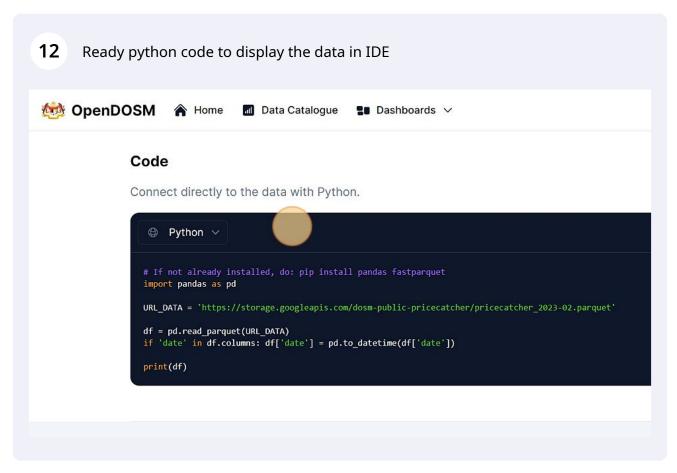


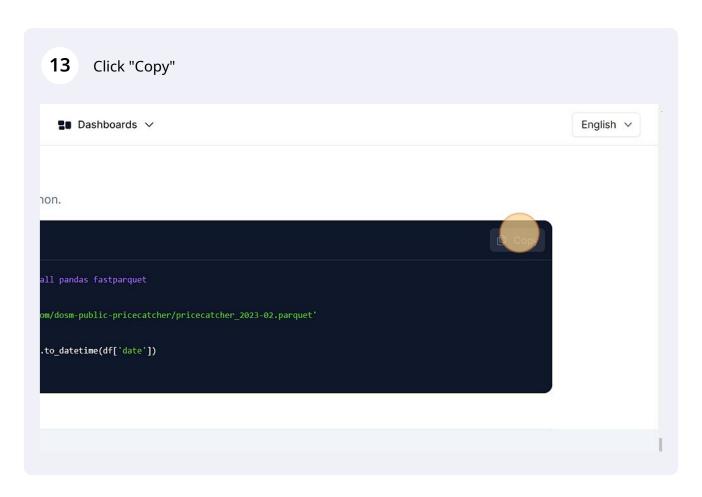


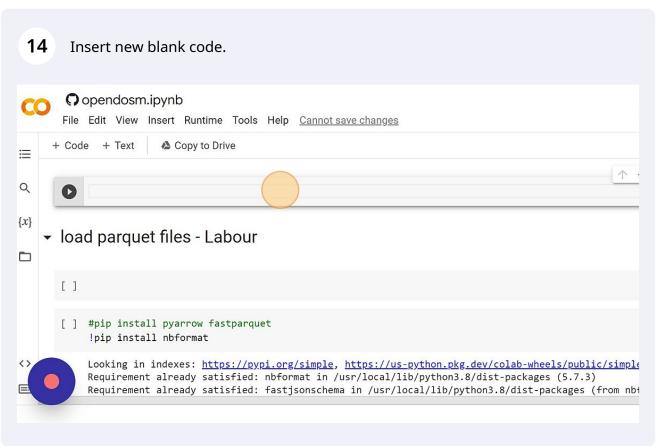
9 Swith previous Tab to <u>open.dosm.gov.my/data-catalogue/dosm-public-pri...</u>







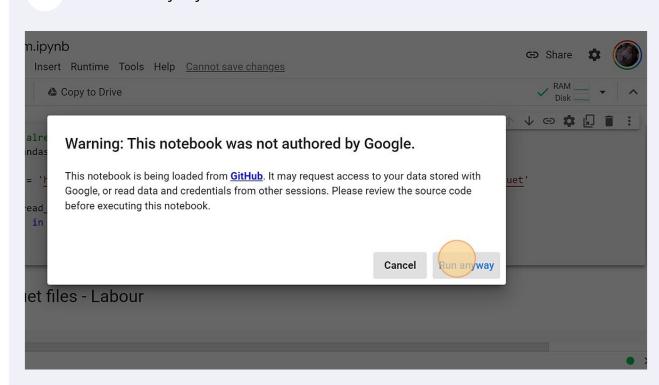


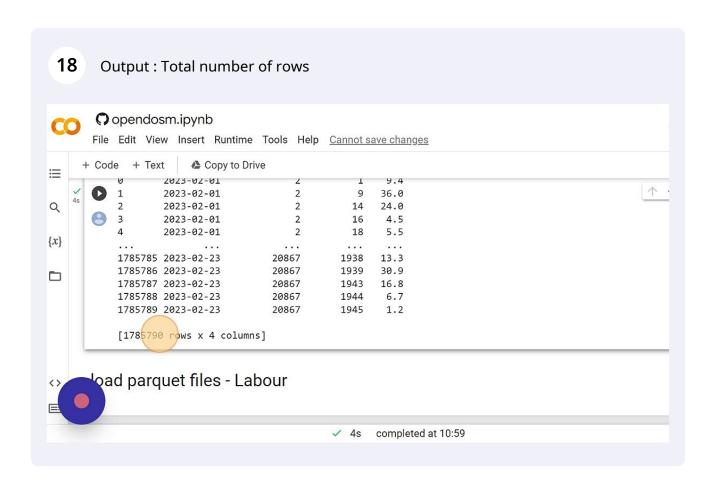


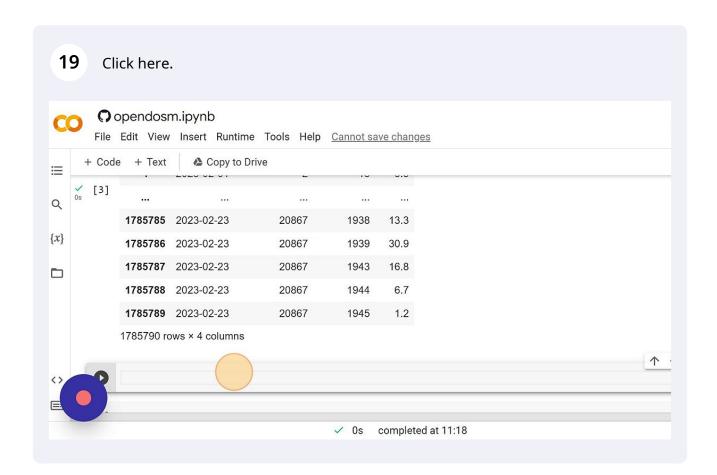
**15** Press [[ctrl]] + [[v]]

16 Click "Run cell" no opendosm.ipynb File Edit View Insert Runtime Tools Help Cannot save changes + Code + Text Copy to Drive  $\equiv$ 1 Q # If not already installed, do: pip install pandas fastparquet import pandas as pd {*x*} URL\_DATA = 'https://storage.googleapis.com/dosm-public-pricecatcher/pricecatcher\_2023-02.parquet df = pd.read\_parquet(URL\_DATA) if 'date' in df.columns: df['date'] = pd.to\_datetime(df['date']) print(df) ▼ load parquet files - Labour

#### 17 Click "Run anyway"





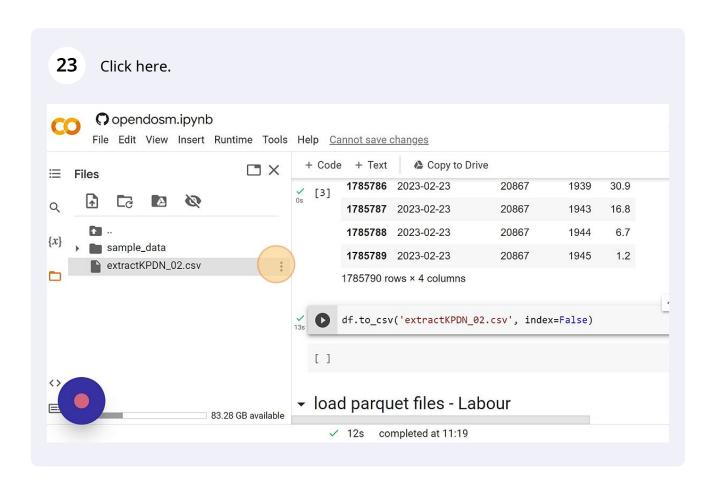


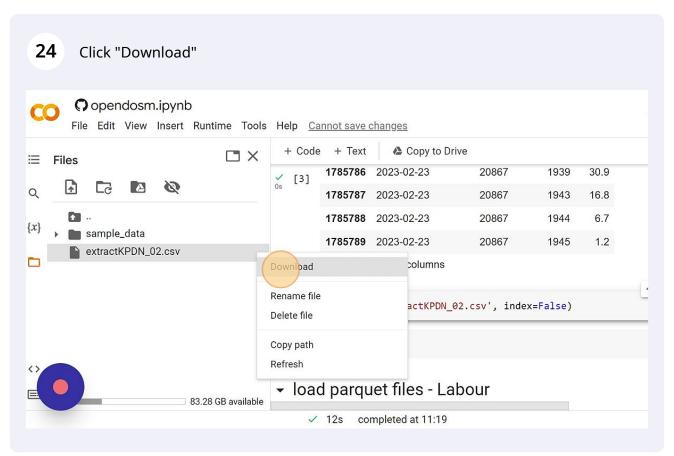
#### Save dataframe to .csv

Type "df.to\_csv('extractKPDN\_02.csv' , index=False")









#### Done