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Portfolio - Short Class

# Python Introduction

**Owner:** Ika Nurfitriani

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# Course Summary



Poin Belajar	Rangkuman
Python Introduction	Python adalah bahasa pemrograman high-level, berorientasi objek dengan semantik dinamis yang dikembangkan oleh Guido van Rossum. Awalnya dirilis tahun 1991. Python sering digunakan untuk membangun situs web dan perangkat lunak, mengotomatisasi tugas, dan melakukan analisis data.
Python Syntax	Sintaks Python sederhana dan mudah dibaca, dengan indentasi untuk mendefinisikan blok kode.
Common Python Data Structures	List, tuple, set, dan dictionary adalah struktur data umum dalam Python.
Conditional Statement	if statement, if else statement, if elif else statement, dan nested if statement digunakan untuk pengambilan keputusan.
Looping	for dan while digunakan untuk mengulang tugas yang berulang.



# Course Summary



Poin Belajar	Rangkuman
Function	<p>With Return Statement: Fungsi yang menampung operasi logika dan memiliki output yang akan masuk di statement return dimana nilai tersebut akan digunakan di baris kode selanjutnya.</p> <p>No Return Statement (Procedure): Fungsi yang menampung operasi logika dan memiliki output yang akan masuk di statement return dimana nilai tersebut akan digunakan di baris kode selanjutnya.</p>



# Python Practice in Google Collaboration

The screenshot shows a Google Colab notebook with the following content:

```
[38] import pandas as pd

df = pd.read_csv('superstore.csv')

[46] df.head(2)
```

The output of the code is a table with 21 columns and 2 rows:

	Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment	Country	City	Postal Code	Region	Product ID	Category	Sub-Category
0	1	CA-2016-152156	11/8/2016	11/11/2016	Second Class	CG-12520	Claire Gute	Consumer	United States	Henderson	42420	South	FUR-BO-10001798	Furniture	Bookcases
1	2	CA-2016-152156	11/8/2016	11/11/2016	Second Class	CG-12520	Claire Gute	Consumer	United States	Henderson	42420	South	FUR-CH-10000454	Furniture	Chairs

2 rows x 21 columns

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# Python Practice in Google Collaboration

The screenshot shows a Google Colab notebook titled "Mini Task SC Data - Python Introduction (06 Januari 2025)\_IKA NURFITRIANI.ipynb". The notebook is open to a cell containing the code `df.tail(4)`, which has been executed. The output is a pandas DataFrame showing the last 4 rows of a dataset. The DataFrame has 21 columns: Row ID, Order ID, Order Date, Ship Date, Ship Mode, Customer ID, Customer Name, Segment, Country, City, Postal Code, Region, Product ID, Category, and Cat. The data shows four rows of shipping records, all from Costa Mesa, West, with different product categories and dates.

Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment	Country	City	Postal Code	Region	Product ID	Category	Cat
9990	9991	CA-2017-121258	2/26/2017	3/3/2017	Standard Class	DB-13060	Dave Brooks	Consumer	United States	Costa Mesa	West	FUR-FU-1000747	Furniture	Furni
9991	9992	CA-2017-121258	2/26/2017	3/3/2017	Standard Class	DB-13060	Dave Brooks	Consumer	United States	Costa Mesa	West	TEC-PH-10003645	Technology	F
9992	9993	CA-2017-121258	2/26/2017	3/3/2017	Standard Class	DB-13060	Dave Brooks	Consumer	United States	Costa Mesa	West	OFF-PA-10004041	Office Supplies	
9993	9994	CA-2017-119914	5/4/2017	5/9/2017	Second Class	CC-12220	Chris Cortes	Consumer	United States	Westminster	West	OFF-AP-10002684	Office Supplies	App

Below the DataFrame, it indicates "4 rows x 21 columns". At the bottom of the notebook, there is a cell with the code `df.sample(5)` and a status bar showing "0 d selesai pada 15.00".

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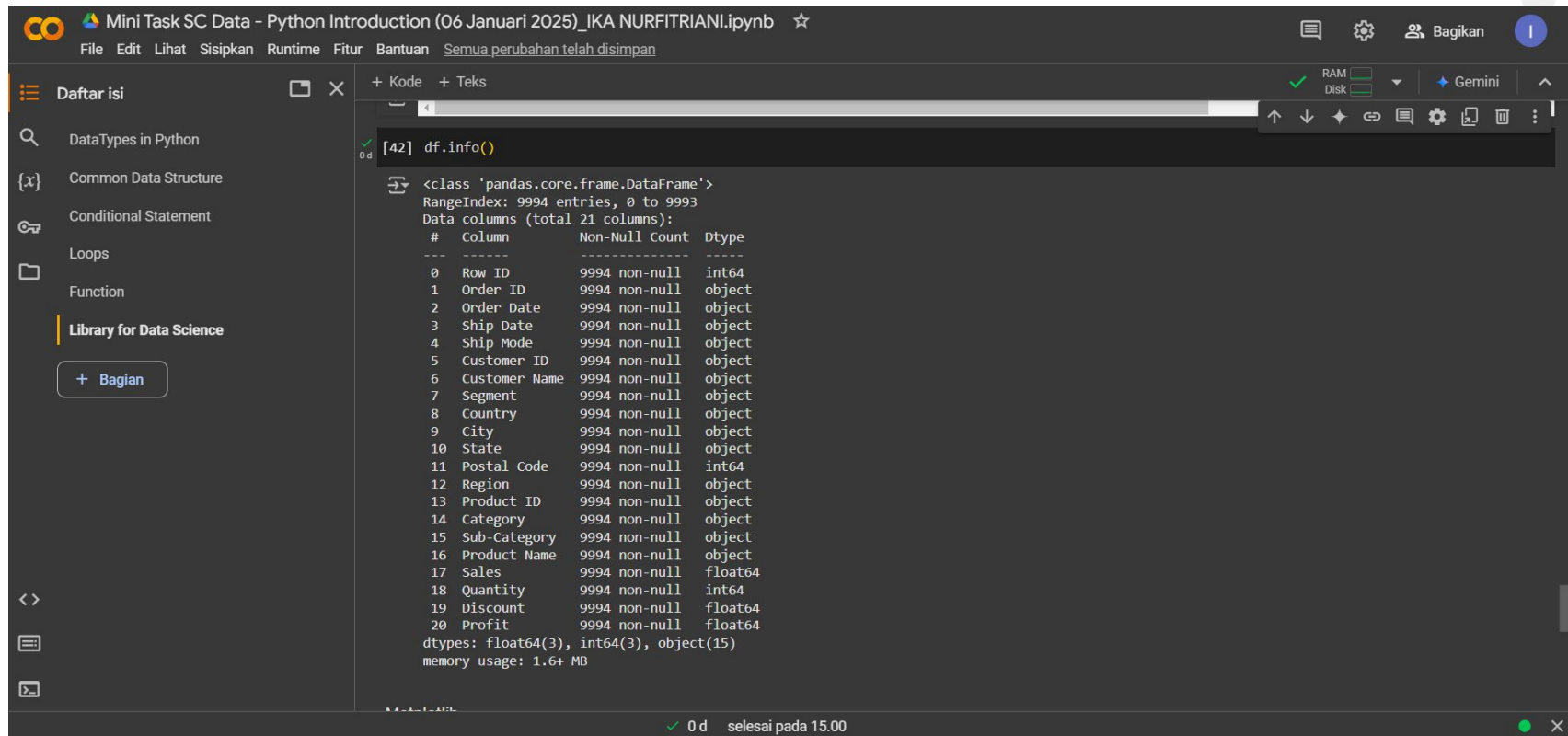
# Python Practice in Google Collaboration

The screenshot shows the Google Colab interface for a notebook titled "Mini Task SC Data - Python Introduction (06 Januari 2025)\_IKA NURFITRIANI.ipynb". The left sidebar contains a "Daftar isi" (Table of Contents) with sections like "DataTypes in Python", "Common Data Structure", "Conditional Statement", "Loops", "Function", and "Library for Data Science". The main area displays a code cell with the command `df.sample(5)`, which has been executed, resulting in a data frame with 5 rows and 21 columns. The data frame contains information about orders, including Row ID, Order ID, Order Date, Ship Date, Ship Mode, Customer ID, Customer Name, Segment, Country, City, Postal Code, Region, Product ID, Category, and Sub-Category. The status bar at the bottom indicates "0 d selesai pada 15.00".

Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment	Country	City	Postal Code	Region	Product ID	Category	Sub-Category
3340	3341	US-2017-109253	8/21/2017	8/22/2017	First Class	PR-18880	Patrick Ryan	Consumer	United States	Oakland	West	OFF-LA-10001158	Office Supplies	Labels
725	726	CA-2017-144113	9/16/2017	9/20/2017	Standard Class	JF-15355	Jay Fein	Consumer	United States	Austin	Central	OFF-EN-10001141	Office Supplies	Envelopes
2994	2995	CA-2016-112893	9/9/2016	9/13/2016	Second Class	AT-10735	Annie Thurman	Consumer	United States	Stockton	West	OFF-BI-10004654	Office Supplies	Binders
1040	1041	CA-2016-127670	3/20/2016	3/24/2016	Standard Class	RD-19660	Robert Dillbeck	Home Office	United States	Saint Peters	Central	FUR-TA-10001095	Furniture	Tables
6902	6903	CA-2017-111220	9/2/2017	9/8/2017	Standard Class	JS-15595	Jill Stevenson	Corporate	United States	Chicago	Central	OFF-FA-10002280	Office Supplies	Fasteners

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# Python Practice in Google Collaboration



The screenshot shows a Google Colab notebook titled "Mini Task SC Data - Python Introduction (06 Januari 2025)\_IKA NURFITRIANI.ipynb". The left sidebar contains a "Daftar isi" (Table of Contents) with links to various Python topics. The main area displays a code cell with the command `df.info()` and its output, which provides a summary of a pandas DataFrame.

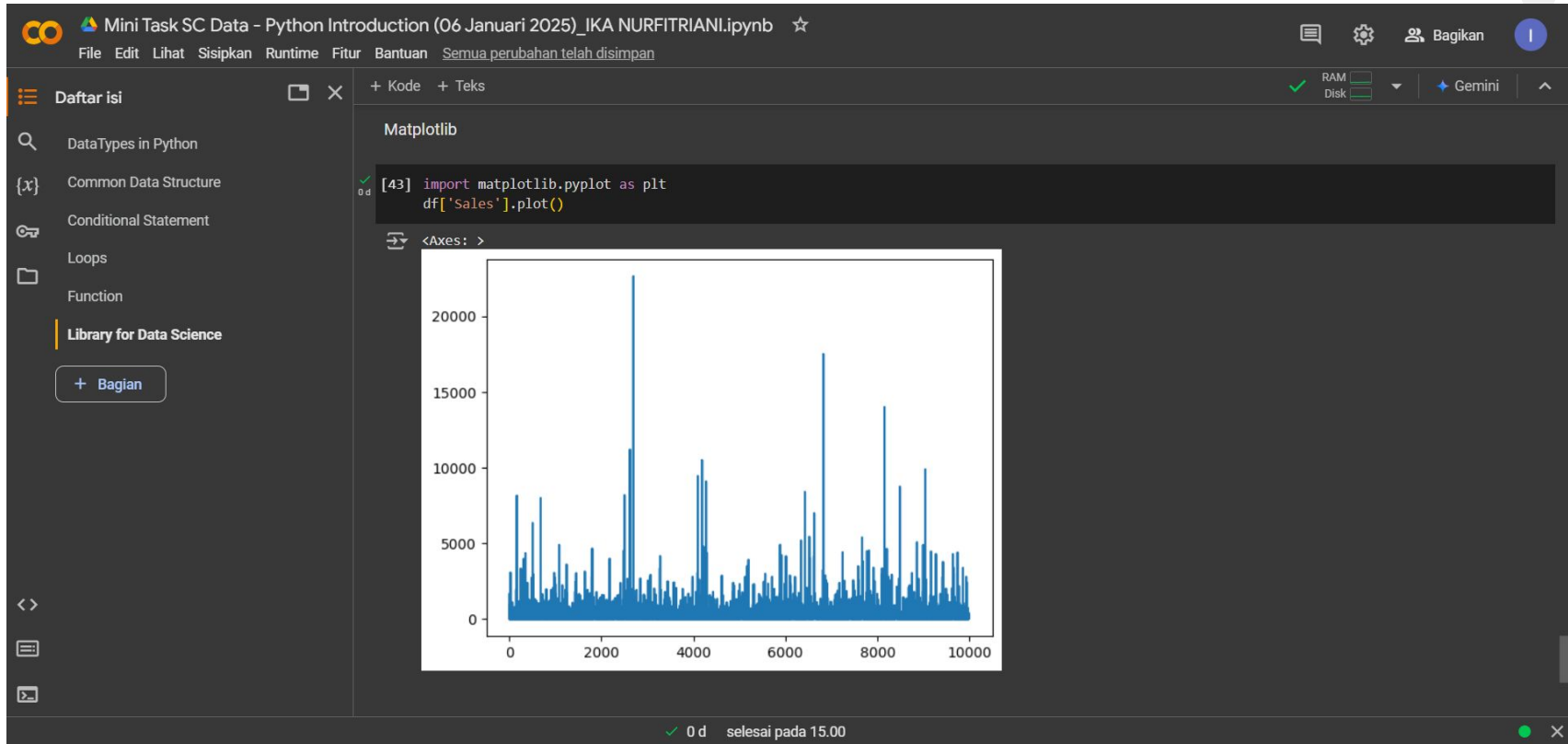
```
[42] df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 9994 entries, 0 to 9993
Data columns (total 21 columns):
 #   Column        Non-Null Count  Dtype  
---  --   ---
 0   Row ID        9994 non-null   int64  
 1   Order ID      9994 non-null   object  
 2   Order Date    9994 non-null   object  
 3   Ship Date     9994 non-null   object  
 4   Ship Mode     9994 non-null   object  
 5   Customer ID   9994 non-null   object  
 6   Customer Name 9994 non-null   object  
 7   Segment       9994 non-null   object  
 8   Country       9994 non-null   object  
 9   City          9994 non-null   object  
10   State         9994 non-null   object  
11   Postal Code   9994 non-null   int64  
12   Region        9994 non-null   object  
13   Product ID    9994 non-null   object  
14   Category      9994 non-null   object  
15   Sub-Category  9994 non-null   object  
16   Product Name  9994 non-null   object  
17   Sales         9994 non-null   float64 
18   Quantity      9994 non-null   int64  
19   Discount      9994 non-null   float64 
20   Profit        9994 non-null   float64 
dtypes: float64(3), int64(3), object(15)
memory usage: 1.6+ MB
```

The bottom status bar indicates the cell was executed successfully at 15:00.

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# Python Practice in Google Collaboration



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