

ConsumerData

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In [25]: import pandas as pd
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In [35]: Data = r'C:\Users\User\Downloads\consumer data.xlsx'
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In [36]: ConsumerData = pd.read_excel(Data)
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In [37]: ConsumerData
```

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Out[37]:
```

	Consumer ID	Name	Address	Contact Number	Email	Account Number	Meter Number	Tariff Plan	Consumption History	Payment Status
0	101	Rohan Jadhav	123 Main Street Anytown, USA	9876543213	rj@gmail.com	5555555555	11112	990	A1	Paid
1	102	Shruti patil	456 Greenfield Road, New Delhi, Delhi 110001	6978543663	sp@gmail.com	9998887776	11334	809	A2	Paid
2	103	Joy ohal	101 Rose Garden, Kolkata, West Bengal 700001	5678536663	jo@gmail.com	7777777777	22876	709	A4	Paid
3	112	Rohain gupta	789 Church Road, Birmingham B15 3TW	9988776633	rg@gmail.com	4444444444	99098	609	B1	Unpaid
4	116	Sonal Sha	23 Sunshine Colony, Mumbai, Maharashtra 400001	9089686432	ss@gmail.com	1111222233	98780	409	C3	Unpaid
5	222	Rohani Shron	234 Bridge Street, Cardiff CF10 2TU	3098753444	rs@gmail.com	1111222239	12345	567	C5	Paid
6	911	Rony Roy	234 Riverbank Avenue, Chennai, Tamil Nadu 600001	6453789212	rr@gmail.com	3333333333	65432	304	B3	Unpaid
7	109	Shwon Bal	101 Elm Street, Los Angeles, CA 90001	1256478634	sb@gmail.com	9998887776	34562	209	C2	Paid
8	134	Anjali Jadha	456 High Street, Manchester M2 4GB	8986354609	aj@gmail.com	3333333556	90876	345	B4	Unpaid
9	98	Rahul Kadam	567 Pine Avenue, Houston, TX 77001	8906545438	rk@gmail.com	1234567890	12345	234	C1	Unpaid

```
In [44]: ConsumerData.shape
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Out[44]: (10, 10)
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Smart360

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In [38]: Data1 = r'C:\Users\User\Downloads\smart360.xlsx'
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```
In [39]: Smart360 = pd.read_excel(Data1)
```

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In [40]: Smart360
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Out[40]:

	Consumer ID	Name	Last Name	Address Line 1	Address Line 2	City	State	Zip Code	Phone Number	Email
0	101	Rohan	Jadhav	123 Main Street Anytown, USA	Anytown, USA	Texas	USA	110022	9876543213	rj@gmail.com
1	102	Shruti	patil	456 Greenfield Road, New Delhi, Delhi 110001	New Delhi, Delhi 110001	Chandani	Delhi	110001	6978543663	sp@gmail.com
2	103	Joy	ohal	101 Rose Garden, Kolkata, West Bengal 700001	West Bengal 700001	Bohar	Bengal	700001	5678536663	jo@gmail.com
3	112	Rohain	gupta	789 Church Road, Birmingham B15 3TW	Birmingham B15 3TW	Blome	UK	123309	9988776633	rg@gmail.com
4	116	Sonal	Sha	23 Sunshine Colony, Mumbai, Maharashtra 400001	Mumbai,	Bandra	Maharashtra	400001	9089686432	ss@gmail.com
5	107	Rohani	Shron	234 Bridge Street, Cardiff CF10 2TU	Cardiff CF10 2TU	Cord	UK	123400	3098753444	rs@gmail.com
6	198	Emily	Johnson	101 Queen's Road, Glasgow G1 3DX	Glasgow G1 3DX	swis	USA	33440	9087987564	ej@gmail.com
7	230	Michael	Davis	567 Pine Avenue, Houston, TX 77001	TX 77001	new york	UK	33345	998877644	md@gmail.com
8	278	Gauri	Khan	234 Riverbank Avenue, Chennai, Tamil Nadu 600001	Tamil Nadu 600001	chennai	Tamil nadu	444444	4455634245	gk@gmail.com
9	899	Jessica	Wilson	234 Cedar Lane, Chicago, IL 60601	IL 60601	chicago	USA	344562	1230987654	jw@gmail.com

In [45]: Smart360.shape

Out[45]: (10, 10)

Extracted Data

```
In [41]: import pandas as pd

# Path to the source Excel file (extracted data)
source_file_path = r'C:\Users\User\Downloads\consumer data.xlsx'

# Path to the mapping Excel file
mapping_file_path = r'C:\Users\User\Downloads\smart360.xlsx'

# Read the source and mapping Excel files into pandas DataFrames
try:
    source_df = pd.read_excel(source_file_path)
    mapping_df = pd.read_excel(mapping_file_path)

    # Perform the mapping based on common columns
    merged_df = pd.merge(source_df, mapping_df, how='inner', on='Consumer ID')

    # Display the merged DataFrame
    print(merged_df)

    # Now you can further process the merged data as needed
except FileNotFoundError:
    print(f"File not found.")
except Exception as e:
    print(f"An error occurred: {e}")
```

	Consumer ID	Name	Address	\
0	101	Rohan Jadhav	123 Main Street Anytown, USA	
1	102	Shruti patil	456 Greenfield Road, New Delhi, Delhi 110001	
2	103	Joy ohal	101 Rose Garden, Kolkata, West Bengal 700001	
3	112	Rohain gupta	789 Church Road, Birmingham B15 3TW	
4	116	Sonal Sha	23 Sunshine Colony, Mumbai, Maharashtra 400001	

	Contact Number	Email_x	Account Number	Meter Number	Tariff Plan	\
0	9876543213	rj@gmail.com	5555555555	11112	990	
1	6978543663	sp@gmail.com	9998887776	11334	809	
2	5678536663	jo@gmail.com	7777777777	22876	709	
3	9988776633	rg@gmail.com	4444444444	99098	609	
4	9089686432	ss@gmail.com	1111222233	98780	409	

	Consumption History	Payment Status	Name	Last Name	\
0	A1	Paid	Rohan	Jadhav	
1	A2	Paid	Shruti	patil	
2	A4	Paid	Joy	ohal	
3	B1	Unpaid	Rohain	gupta	
4	C3	Unpaid	Sonal	Sha	

	Address Line 1	Address Line 2	\
0	123 Main Street Anytown, USA	Anytown, USA	
1	456 Greenfield Road, New Delhi, Delhi 110001	New Delhi, Delhi 110001	
2	101 Rose Garden, Kolkata, West Bengal 700001	West Bengal 700001	
3	789 Church Road, Birmingham B15 3TW	Birmingham B15 3TW	
4	23 Sunshine Colony, Mumbai, Maharashtra 400001	Mumbai,	

	City	State	Zip Code	Phone Number	Email_y
0	Texas	USA	110022	9876543213	rj@gmail.com
1	Chandani	Delhi	110001	6978543663	sp@gmail.com
2	Bohar	Bengal	700001	5678536663	jo@gmail.com
3	Blome	UK	123309	9988776633	rg@gmail.com
4	Bandra	Maharashtra	400001	9089686432	ss@gmail.com

```
In [46]: ConsumerData.shape
```

```
Out[46]: (10, 10)
```

```
In [47]: Smart360.shape
```

```
Out[47]: (10, 10)
```

```
In [48]: merged_df.shape
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Out[48]: (5, 19)
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In [ ]:
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