

merge_tablica

August 1, 2025

```
[1]: import pandas as pd
```

```
[2]: klijenti = pd.read_excel("../..../datasets/merge1/Clients.xlsx")
```

```
[3]: klijenti
```

```
[3]:
```

	Cl_id	Name	Age
0	1	Tom	19
1	2	Ivana	39
2	3	Hrvoje	43
3	4	Tom	28
4	5	Hana	55
5	6	Stipe	21

```
[4]: klijenti_IT = pd.read_excel("../..../datasets/merge1/Clients_Italy.xlsx")
```

```
[5]: klijenti_IT
```

```
[5]:
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	Cl_id	Name	Age
0	7	Luigi	33
1	8	Gabriele	38
2	9	Leonardo	31
3	10	Bianca	42
4	11	Andrea	35
5	12	Antonio	40
6	13	Luigi	26

```
[6]: popis_klijenata = pd.concat([klijenti, klijenti_IT])
```

```
[7]: popis_klijenata
```

```
[7]:
```

	Cl_id	Name	Age
0	1	Tom	19
1	2	Ivana	39
2	3	Hrvoje	43
3	4	Tom	28
4	5	Hana	55
5	6	Stipe	21

0	7	Luigi	33
1	8	Gabriele	38
2	9	Leonardo	31
3	10	Bianca	42
4	11	Andrea	35
5	12	Antonio	40
6	13	Luigi	26

```
[8]: klijenti_DE = pd.read_excel("../datasets/merge1/Clients_Germany.xlsx")
```

```
[9]: popis_klijenata = pd.concat([popis_klijenata, klijenti_DE])
```

```
[10]: popis_klijenata
```

```
[10]:
```

	Cl_id	Name	Age
0	1	Tom	19
1	2	Ivana	39
2	3	Hrvoje	43
3	4	Tom	28
4	5	Hana	55
5	6	Stipe	21
0	7	Luigi	33
1	8	Gabriele	38
2	9	Leonardo	31
3	10	Bianca	42
4	11	Andrea	35
5	12	Antonio	40
6	13	Luigi	26
0	20	Hans	21
1	21	Jonas	23
2	22	Carl	25
3	23	Ema	61
4	24	Maria	58
5	25	Carl	54

```
[11]: orders = pd.read_excel("../datasets/merge1/Orders.xlsx")
```

```
[12]: orders
```

```
[12]:
```

	Ord_id	Cl_id	Date
0	1	15	2024-05-15
1	2	2	2024-03-13
2	3	35	2024-01-20
3	4	40	2024-03-30
4	5	4	2024-02-10
5	6	50	2024-01-14
6	7	3	2024-06-21

7 8 60 2024-05-01

```
[13]: dobri_klijenti = pd.merge(popis_klijenata, orders, on = "Cl_id", how = "inner")
```

```
[14]: dobri_klijenti
```

```
[14]:   Cl_id  Name  Age  Ord_id      Date
0      2  Ivana  39      2 2024-03-13
1      3  Hrvoje 43      7 2024-06-21
2      4    Tom  28      5 2024-02-10
```

```
[15]: odjel = pd.read_excel("../datasets/merge1/Department.xlsx")
```

```
[16]: odjel
```

```
[16]:   Id_d  Cl_id  Department
0      1      30   Marketing
1      2      35   Logistics
2      3       1     Sales
3      4       2  Accounting
4      5       1     Finance
5      6       3         Hr
```

```
[17]: klijenti_odjel = pd.merge(popis_klijenata, odjel, on = "Cl_id", how = "inner")
```

```
[18]: klijenti_odjel
```

```
[18]:   Cl_id  Name  Age  Id_d  Department
0      1    Tom  19     3     Sales
1      1    Tom  19     5     Finance
2      2  Ivana  39     4  Accounting
3      3  Hrvoje 43     6         Hr
```

```
[19]: klijenti_kupili = pd.merge(popis_klijenata, orders, on = "Cl_id", how = "left")
```

```
[20]: klijenti_kupili
```

```
[20]:   Cl_id  Name  Age  Ord_id      Date
0      1    Tom  19     NaN     NaT
1      2  Ivana  39     2.0 2024-03-13
2      3  Hrvoje 43     7.0 2024-06-21
3      4    Tom  28     5.0 2024-02-10
4      5   Hana  55     NaN     NaT
5      6   Stipe 21     NaN     NaT
6      7   Luigi 33     NaN     NaT
7      8  Gabriele 38     NaN     NaT
8      9  Leonardo 31     NaN     NaT
9     10  Bianca 42     NaN     NaT
```

10	11	Andrea	35	NaN	NaT
11	12	Antonio	40	NaN	NaT
12	13	Luigi	26	NaN	NaT
13	20	Hans	21	NaN	NaT
14	21	Jonas	23	NaN	NaT
15	22	Carl	25	NaN	NaT
16	23	Ema	61	NaN	NaT
17	24	Maria	58	NaN	NaT
18	25	Carl	54	NaN	NaT

```
[21]: products = pd.read_excel("../..../datasets/merge1/Products.xlsx")
```

```
[22]: suppliers = pd.read_excel("../..../datasets/merge1/Suppliers.xlsx")
```

```
[23]: df_right_join = pd.merge(suppliers, products, on = "Supp_id", how = "right")
```

```
[24]: df_right_join
```

```
[24]:
```

	Supp_id	Sup_name	ProductID	PrName
0	1	Aaaa	101	stol
1	2	Bbbb	102	stolica
2	2	Bbbb	103	šank
3	3	Ccccc	104	frižider
4	3	Ccccc	105	vrč
5	4	NaN	106	šalica
6	4	NaN	107	tanjur

```
[25]: primjer_outer_join = pd.merge(klijenti, orders, on = "Cl_id", how = "outer")
```

```
[26]: primjer_outer_join
```

```
[26]:
```

	Cl_id	Name	Age	Ord_id	Date
0	1	Tom	19.0	NaN	NaT
1	2	Ivana	39.0	2.0	2024-03-13
2	3	Hrvoje	43.0	7.0	2024-06-21
3	4	Tom	28.0	5.0	2024-02-10
4	5	Hana	55.0	NaN	NaT
5	6	Stipe	21.0	NaN	NaT
6	15	NaN	NaN	1.0	2024-05-15
7	35	NaN	NaN	3.0	2024-01-20
8	40	NaN	NaN	4.0	2024-03-30
9	50	NaN	NaN	6.0	2024-01-14
10	60	NaN	NaN	8.0	2024-05-01