

⇒ Drive already mounted at /content/drive; to attempt to forcibly remount, call `drive.mount("/content/drive", force_remount=True)`.

```
print(df)
```

```
df.head()
```

```
df.tail()
```

	Emp ID	Name Prefix	First Name	Middle Initial	Last Name	Gender	E Mail	Father's Name	Mother's Name	Mother's Maiden Name	Salary	
	95	639892	Mr.	Jose	K	Hill	M	jose.hill@hotmail.com	Carlos Hill	Anna Hill	Hayes	129774
	96	704709	Dr.	Harold	Z	Nelson	M	harold.nelson@gmail.com	Richard Nelson	Pamela Nelson	Smith	156194
	97	461593	Ms.	Nicole	O	Ward	F	nicole.ward@yahoo.com	Ralph Ward	Julia Ward	Lee	95673
								George	Jacqueline			

df.head(60)

	Emp ID	Name Prefix	First Name	Middle Initial	Last Name	Gender	E Mail	Father's Name	Mother's Name	Mother's Maiden Name	Salary
0	677509	Drs.	Lois	H	Walker	F	lois.walker@hotmail.com	Donald Walker	Helen Walker	Lewis	168251
1	940761	Ms.	Brenda	S	Robinson	F	brenda.robinson@gmail.com	Raymond Robinson	Judy Robinson	Perry	51063
2	428945	Dr.	Joe	W	Robinson	M	joe.robinson@gmail.com	Scott Robinson	Stephanie Robinson	Taylor	50155
3	408351	Drs.	Diane	I	Evans	F	diane.evans@yahoo.com	Jason Evans	Michelle Evans	Allen	180294
4	193819	Mr.	Benjamin	R	Russell	M	benjamin.russell@charter.net	Gregory Russell	Elizabeth Russell	Nelson	117642
5	499687	Mr.	Patrick	F	Bailey	M	patrick.bailey@aol.com	Ralph Bailey	Laura Bailey	Henderson	72305
6	539712	Ms.	Nancy	T	Baker	F	nancy.baker@bp.com	Scott Baker	Judy Baker	Thomas	98189
7	380086	Mrs.	Carol	V	Murphy	F	carol.murphy@gmail.com	Eugene Murphy	Katherine Murphy	Peterson	60918
8	477616	Hon.	Frances	B	Young	F	frances.young@gmail.com	Fred Young	Lillian Young	Diaz	121587
9	162402	Hon.	Diana	T	Peterson	F	diana.peterson@hotmail.co.uk	Jonathan Peterson	Christina Peterson	Ross	43010
10	231469	Mr.	Ralph	L	Flores	M	ralph.flores@yahoo.com	Terry Flores	Michelle Flores	Moore	118457
11	153989	Prof.	Jack	C	Alexander	M	jack.alexander@gmail.com	Samuel Alexander	Sharon Alexander	Walker	82965
12	386158	Mrs.	Melissa	Q	King	F	melissa.king@comcast.net	Philip King	Maria King	White	166892
13	301576	Hon.	Wayne	G	Watson	M	wayne.watson@gmail.com	Ronald Watson	Margaret Watson	Hayes	92758
14	441771	Mrs.	Cheryl	O	Scott	F	cheryl.scott@gmail.com	Richard Scott	Lois Scott	Watson	92220
15	528509	Hon.	Paula	G	Diaz	F	paula.diaz@gmail.com	Alan Diaz	Kathryn Diaz	Powell	152654
16	912990	Mr.	Joshua	T	Stewart	M	joshua.stewart@yahoo.ca	Todd Stewart	Martha Stewart	Jones	184896
17	214352	Ms.	Theresa	G	Lee	F	theresa.lee@gmail.com	John Lee	Rebecca Lee	Turner	197537
18	890290	Hon.	Julia	S	Scott	F	julia.scott@apple.com	Lawrence Scott	Amy Scott	King	141518
19	622406	Mr.	Thomas	Q	Lewis	M	thomas.lewis@gmail.com	Ryan Lewis	Lois Lewis	Price	73862
20	979607	Ms.	Carol	J	Edwards	F	carol.edwards@msn.com	Shawn Edwards	Susan Edwards	Gray	93967

modi = df.iloc[71]
print(modi)

	21	426038	Hon.	Joan	C	Stewart	F	joan.stewart@yahoo.com	Charles Stewart	Julia Stewart	Collins	111673
	22	388642	Mrs.	Ruby	R	Cynthia Rogers	F	ruby.rogers@gmail.com	Ronald Rogers	Teresa Rogers	Alexander	160623

```

Last Name      24 560455      Ms. Carolyn      V      White Hayes      F      carolyn.hayes@hotmail.co.uk      Jimmy Hayes      Sara Hayes      Foster      42005
Gender
E Mail      cynthia.white@gmail.com
Father's Name  25 477253      Mrs. Anne      Nicholas White Russell      F      anne.russell@ibm.com      Jimmy Russell      Stephanie Russell      Richardson      103160
Mother's Name
Mother's Maiden Name      Turner
Salary  26 263480      Hon. Daniel      K      186200 Cooper      M      daniel.cooper@yahoo.com      Louis Cooper      Julie Cooper      Murphy      153790
Name: 71, dtype: object

```

```

import pandas as pd
df=pd.DataFrame([[1,2,3],[4,5,6],[7,8,9]],index=['one','two','three'],columns=['a','b','c'])
print(df)

```

```

29 339732      c      Ms. Brenda      M      Butler      F      brenda.butler@gmail.com      Phillip Butler      Joyce Butler      Thomas      60508
one      1      2      3
30 329752      6      Hon. Lillian      X      Brown      F      lillian.brown@aol.com      Gary Brown      Virginia Brown      Wood      67251
two      4      5      6
three     7      8      9

```

```
df.to_excel("/content/drive/My Drive/s1.xlsx")
```

```
df.to_excel("/content/drive/My Drive/s2.xlsx")
```

```

df=pd.DataFrame([[40,50,60],[44,55,66],[444,555,666]],index=['நான்கு','ஐந்து','ஆறு'],columns=['x','y','z'])
print(df)

```

```

35 583476      40      50      60      Mary      P      Wilson      F      mary.wilson@sbcglobal.net      Robert Wilson      Jennifer Wilson      Patterson      109394
ஐந்து     44      55      66
ஆறு      444      555      666
36 218791      Mr. Aaron      N      Price      M      aaron.price@bp.com      Michael Price      Diana Price      Torres      54402

```

```
df.to_excel("/content/drive/My Drive/t1.xlsx")
```

```

import pandas as pd
df=pd.DataFrame([[1,2],[4,5]],index=['a','b'],columns=['x','y'])
print(df)

```

```

39 766610      Ms. Joyce      E      Jenkins      F      joyce.jenkins@aol.com      Edward Jenkins      Susan Jenkins      Hayes      119321
x
b      4      5

```

```
df.to_excel("/content/drive/My Drive/t2.xlsx")
```

```

x=pd.read_excel("/content/drive/My Drive/t1.xlsx")
y=pd.read_excel("/content/drive/My Drive/t2.xlsx")
z=pd.concat([x,y])
z.to_excel("/content/drive/My Drive/s3.xlsx")

```

```

df=z.sort_values(by='x')
print(df)

```

```

39  Unnamed: 0      x      y      z
0      a      1      2      NaN
1      b      4      5      NaN
0      நான்கு      40      50      60.0
1      ஐந்து      44      55      66.0
2      ஆறு      444      555      666.0

```

```
df.to_excel("/content/drive/My Drive/s3.xlsx")
```

```

df=z.sort_values(by='y')
print(df)

```

```

39  Unnamed: 0      x      y      z
0      a      1      2      NaN
1      b      4      5      NaN
0      நான்கு      40      50      60.0
1      ஐந்து      44      55      66.0
2      ஆறு      444      555      666.0

```

```

import pandas as pd
from google.colab import drive

```

```
drive.mount('/content/drive')
df = pd.read_csv('/content/drive/My Drive/employees details.csv')

Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force_remount=True).
```

```
df.to_excel("/content/drive/My Drive/s3.xlsx")
print(df)
```

	Emp ID	Name	Prefix	First Name	Middle Initial	Last Name	Gender	\
0	677509		Drs.	Lois	H	Walker	F	
1	940761		Ms.	Brenda	S	Robinson	F	
2	428945		Dr.	Joe	W	Robinson	M	
3	408351		Drs.	Diane	I	Evans	F	
4	193819		Mr.	Benjamin	R	Russell	M	
..	
95	639892		Mr.	Jose	K	Hill	M	
96	704709		Dr.	Harold	Z	Nelson	M	
97	461593		Ms.	Nicole	O	Ward	F	
98	392491		Mrs.	Theresa	R	Murphy	F	
99	495141		Drs.	Tammy	B	Young	F	
		E Mail		Father's Name		Mother's Name		\
0		lois.walker@hotmail.com		Donald Walker		Helen Walker		
1		brenda.robinson@gmail.com		Raymond Robinson		Judy Robinson		
2		joe.robinson@gmail.com		Scott Robinson		Stephanie Robinson		
3		diane.evans@yahoo.com		Jason Evans		Michelle Evans		
4		benjamin.russell@charter.net		Gregory Russell		Elizabeth Russell		
..			
95		jose.hill@hotmail.com		Carlos Hill		Anna Hill		
96		harold.nelson@gmail.com		Richard Nelson		Pamela Nelson		
97		nicole.ward@yahoo.com		Ralph Ward		Julia Ward		
98		theresa.murphy@gmail.com		George Murphy		Jacqueline Murphy		
99		tammy.young@comcast.net		Andrew Young		Brenda Young		
		Mother's Maiden Name		Salary				
0		Lewis		168251				
1		Perry		51063				
2		Taylor		50155				
3		Allen		180294				
4		Nelson		117642				
..					
95		Hayes		129774				
96		Smith		156194				
97		Lee		95673				
98		Peterson		51015				
99		Robinson		93650				

```
[100 rows x 11 columns]

print(list(df))

['Emp ID', 'Name Prefix', 'First Name', 'Middle Initial', 'Last Name', 'Gender', 'E Mail', "Father's Name", "Mother's Name", "Mother's M

print(format(len(df)))

100

df=pd.read_excel("/content/drive/My Drive/s3.xlsx")
print(df)
```

	Unnamed: 0	Emp ID	Name	Prefix	First Name	Middle Initial	Last Name	Gender	\
0	0	677509		Drs.	Lois	H	Walker	F	
1	1	940761		Ms.	Brenda	S	Robinson	F	
2	2	428945		Dr.	Joe	W	Robinson	M	
3	3	408351		Drs.	Diane	I	Evans	F	
4	4	193819		Mr.	Benjamin	R	Russell	M	
..	
95	95	639892		Mr.	Jose	K	Hill	M	
96	96	704709		Dr.	Harold	Z	Nelson	M	
97	97	461593		Ms.	Nicole	O	Ward	F	
98	98	392491		Mrs.	Theresa	R	Murphy	F	
99	99	495141		Drs.	Tammy	B	Young	F	
			E Mail		Father's Name		Mother's Name		\
0			lois.walker@hotmail.com		Donald Walker		Helen Walker		
1			brenda.robinson@gmail.com		Raymond Robinson		Judy Robinson		
2			joe.robinson@gmail.com		Scott Robinson		Stephanie Robinson		
3			diane.evans@yahoo.com		Jason Evans		Michelle Evans		
4			benjamin.russell@charter.net		Gregory Russell		Elizabeth Russell		

..
95	jose.hill@hotmail.com	Carlos Hill	Anna Hill
96	harold.nelson@gmail.com	Richard Nelson	Pamela Nelson
97	nicole.ward@yahoo.com	Ralph Ward	Julia Ward
98	theresa.murphy@gmail.com	George Murphy	Jacqueline Murphy
99	tammy.young@comcast.net	Andrew Young	Brenda Young

	Mother's Maiden Name	Salary
0	Lewis	168251
1	Perry	51063
2	Taylor	50155
3	Allen	180294
4	Nelson	117642
..
95	Hayes	129774
96	Smith	156194
97	Lee	95673
98	Peterson	51015
99	Robinson	93650

[100 rows x 12 columns]