```
import pandas as pd
from google.colab import drive
drive.mount('/content/drive')
df = pd.read_csv('/content/drive/My Drive/employees details.csv')
```

Trive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force\_remount=True).

## Double-click (or enter) to edit

## print(df)

```
Emp ID Name Prefix First Name Middle Initial Last Name Gender \
                 Drs.
                           Lois
                                            H Walker
   940761
                 Ms.
                          Brenda
                                                Rohinson
1
                                             5
   428945
                  Dr.
                           Joe
                                                 Robinson
   408351
                 Drs.
                           Diane
                 Mr.
4
   193819
                        Benjamin
                                             R
                                                              Μ
                                                 Russell
95 639892
                  Mr.
                          Jose
                                                    Hill
   704709
96
                  Dr.
                          Harold
                                                   Nelson
                                                              Μ
97
   461593
                                             0
                  Ms.
                          Nicole
                                                   Ward
98 392491
                 Mrs.
                         Theresa
                                             R
                                                   Murphy
99
   495141
                 Drs.
                          Tammy
                                                   Young
                         E Mail
                                    Father's Name
                                                       Mother's Name \
0
        lois.walker@hotmail.com
                                    Donald Walker
                                                        Helen Walker
       brenda.robinson@gmail.com Raymond Robinson
                                                       Judy Robinson
1
                                   Scott Robinson Stephanie Robinson
2
         j<u>oe.robinson@gmail.com</u>
3
          diane.evans@yahoo.com
                                      Jason Evans
                                                      Michelle Evans
    benjamin.russell@charter.net
                                  Gregory Russell
                                                    Elizabeth Russell
                                     Carlos Hill
95
          jose.hill@hotmail.com
                                                           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
                                     Andrew Young
99
        tammy.young@comcast.net
                                                        Brenda Young
   Mother's Maiden Name Salary
0
                 Lewis 168251
                 Perry
                         51063
                Taylor
                         50155
3
                 Allen 180294
4
                Nelson 117642
95
                 Hayes 129774
96
                 Smith 156194
97
                  Lee 95673
98
              Peterson
                         51015
                         93650
              Robinson
[100 rows x 11 columns]
```

## df.head()

₹		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	Н	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	Stephanie	Taylor	50155

₹		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	М	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	0	Ward	F	nicole.ward@yahoo.com	Ralph Ward	Julia Ward	Lee	95673
	<b> </b>								George	.lacqueline		•

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	Н	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	1	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	Т	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	В	Young	F	frances.young@gmail.com	Fred Young	Lillian Young	Diaz	121587
	9	162402	Hon.	Diana	Т	Peterson	F	diana.peterson@hotmail.co.uk	Jonathan Peterson	Christina Peterson	Ross	43010
	10	231469	Mr.	Ralph	L	Flores	М	ralph.flores@yahoo.com	Terry Flores	Michelle Flores	Moore	118457
	11	153989	Prof.	Jack	С	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	0	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	Т	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 print		iloc[71] Hi)										
₹		ı∯26038 e Prefix	Hon.	Joan	С	478 <b>% b</b> wart	F	joan.stewart@yahoo.com	Charles Stewart	Julia Stewart	Collins	111673
	Firs Midd	st Name 388642 Hle Initia	1 Mrs.	Ruby	R	Cynthia Rogers	F	ruby.rogers@gmail.com	Ronald Rogers	Teresa Rogers	Alexander	160623

```
Last Name
                                                     White
                                                                                                              Jimmy
     G24de560455
                        Ms.
                               Carolyn
                                                                      F
                                                                           carolyn.hayes@hotmail.co.uk
                                                                                                                       Sara Hayes
                                                                                                                                          Foster
                                                                                                                                                   42005
                                                                                                              Hayes
     E Mail
                                 cynthia.white@gmail.com
                                          Nicholas White
Katherine White
     Father's Name
477253
Mother's Name
                                                                                                              .Jimmv
                                                                                                                        Stephanie
                                                                                                                                                  103160
                       Mrs.
                                 Anne
                                                                                 anne.russell@ibm.com
                                                                                                                                      Richardson
                                                                                                             Russell
                                                                                                                           Russell
     Mother's Maiden Name
                                                    Turner
     Salary
63480 Hon.
Name: 71, dtype: object
                                                   186200
Cooper
                                                                                                               Louis
                                                                     M
                                                                              daniel.cooper@yahoo.com
                                                                                                                      Julie Cooper
                                                                                                                                         Murphy 153790
                                Daniel
                                                                                                              Cooper
                                                                                                             Antonio
                                                                                                                         Katherine
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)
\overline{\rightarrow}
      29
          3359732<sup>b</sup> c
                        Ms.
                                Brenda
                                               M
                                                         Butler
                                                                               brenda.butler@gmail.com Phillip Butler
                                                                                                                      Jovce Butler
                                                                                                                                         Thomas
                                                                                                                                                   60508
     one
            1 2
                    3
                                                                                                                           Virginia
     t30 329752
three 7 8
                    6
                                                                                                         Gary Brown
                       Hon.
                                 Lillian
                                                Χ
                                                        Brown
                                                                     F
                                                                                  lillian.brown@aol.com
                                                                                                                                           Wood
                                                                                                                                                   67251
                                                                                                                            Brown
df.to_excel("/content/drive/My Drive/s1.xlsx")
                                                                                                                Inse
                                                                                                                            Helen
df.to_excel("/content/drive/My Drive/s2.xlsx")
                                                                                                            Beniamin
                                                                                                                            Wanda
df=pd.DataFrame([[40,50,60],[44,55,66],[444,555,666]],index=['நான்கு','ஐந்து','ஆறு'],columns=['x','y','z'])
print(df)
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                 Х
                           Z
                     50 60
Hon.
55 66
                           60
                                                                                                              Robert
                                                                                                                           Jennifer
                                  Mary
                                                        Wilson
                                                                             mary.wilson@sbcglobal.net
                                                                                                                                       Patterson
                                                                                                                                                  109394
                                                                                                              Wilson
                                                                                                                            Wilson
      ஆறு
                444
                      555
                           666
                                                                                                             Michael
      36 218791
                        Mr.
                                                Ν
                                                         Price
                                                                     M
                                                                                   aaron.price@bp.com
                                                                                                                       Diana Price
                                                                                                                                                   54402
                                 Aaron
                                                                                                                                          Torres
                                                                                                               Drice
df.to_excel("/content/drive/My Drive/t1.xlsx")
      31 134041
                        IVIS.
                                роппа
                                                        DIOWII
                                                                                 นบาว.เบธญาเพบาน.ธาทาบม
                                                                                                                       Helle Dlowil
                                                                                                                                          James
                                                                                                                                                  129000
                                                                                                              Rrown
import pandas as pd
df=pd.DataFrame([[1,2],[4,5]],index=['a','b'],columns=['x','y'])
print(df)
                                                                                                             Euwaru
                                                                                                                            ousan
      39<sub>x</sub> 766610
                        Ms.
                                 Joyce
                                                Е
                                                       Jenkins
                                                                                 joyce.jenkins@aol.com
                                                                                                                                          Hayes 119321
                                                                                                             Jenkins
                                                                                                                           Jenkins
         4
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)
        Unnamed: 0
                  а
                       1
                                   NaN
                  h
                       4
                             5
                                   NaN
     1
     0
            நான்கு
                       40
                             50
                                   60.0
                      44
                                  66.0
             ஐந்து
                       444
                            555
                                  666.0
                ஆறு
df.to_excel("/content/drive/My Drive/s3.xlsx")
df=z.sort_values(by='y')
print(df)
        Unnamed: 0
                       1
                             2
                                   NaN
                  а
                  b
                             5
     1
                       4
                                   NaN
     0
            நான்கு
                       40
                             50
                                   60.0
                      44
                                  66.0
             ஐந்து
     2
                ஆறு
                       444
                            555 666.0
```

import pandas as pd
from google.colab import drive

```
df = pd.read csv('/content/drive/My Drive/employees details.csv')
 Trive 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)
 \overline{2}
                Emp ID Name Prefix First Name Middle Initial Last Name Gender \
               677509
                                        Drs.
                                                         Lois
                                                                                           Н
                                                                                                   Walker
         1
               940761
                                         Ms.
                                                         Brenda
                                                                                                  Robinson
         2
               428945
                                         Dr.
                                                           Joe
                                                                                                  Robinson
                                                                                                                           Μ
         3
                408351
                                         Drs.
                                                         Diane
                                                                                                      Evans
               193819
                                         Mr. Benjamin
         4
                                                                                            R
                                                                                                    Russell
                                                                                                                          Μ
                                          Mr.
         95
               639892
                                                            Jose
                                                                                                         Hill
         96
               704709
                                          Dr.
                                                        Harold
                                                                                            Ζ
                                                                                                     Nelson
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         97
               461593
                                         Ms.
                                                       Nicole
                                                                                            0
                                                                                                       Ward
                                                                                                                           F
         98
               392491
                                         Mrs.
                                                       Theresa
                                                                                            R
                                                                                                     Murphy
               495141
                                        Drs.
                                                         Tammy
                                                                                                       Young
                                                                                                              Mother's Name \
                                                       E Mail
                                                                          Father's Name
                         lois.walker@hotmail.com
         0
                                                                           Donald Walker
                                                                                                               Helen Walker
                     <u>brenda.robinson@gmail.com</u> Raymond Robinson
                                                                                                              Judy Robinson
         1
                                                                                                     Stephanie Robinson
         2
                          joe.robinson@gmail.com
                                                                       Scott 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
                                                                                                                  Julia Ward
                                                                             Ralph Ward
                           nicole.ward@yahoo.com
         98
                       theresa.murphy@gmail.com
                                                                           George Murphy
                                                                                                        Jacqueline Murphy
         99
                                                                            Andrew Young
                                                                                                                Brenda Young
                        tammy.young@comcast.net
              Mother's Maiden Name Salary
         0
                                        Lewis 168251
                                                       51063
                                                       50155
         2
                                       Tavlor
         3
                                        Allen 180294
                                       Nelson 117642
                                        Hayes 129774
         95
         96
                                         Smith 156194
         97
                                            Lee
                                                       95673
         98
                                                       51015
                                   Peterson
         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
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 \
         a
                               0
                                     677509
                                                             Drs.
                                                                                Lois
                                                                                                                 Н
                                                                                                                         Walker
                                     940761
                                                               Ms.
                                                                              Brenda
                                                                                                                        Robinson
                               2
                                     428945
                                                               Dr.
                                                                                Joe
                                                                                                                       Robinson
                                                                                                                                                Μ
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                                                                              Diane
         3
                               3
                                     408351
                                                             Drs.
                                                                                                                 Т
                                                                                                                            Evans
                                                                                                                                                F
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                               4
                                     193819
                                                               Mr.
                                                                          Benjamin
                                                                                                                  R
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         95
                              95
                                     639892
                                                                                                                              Hill
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                                                               Mr.
                                                                                 Jose
         96
                              96 704709
                                                               Dr.
                                                                             Harold
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                                                                                                                          Nelson
                                                                                                                                                Μ
         97
                              97 461593
                                                               Ms.
                                                                             Nicole
                                                                                                                 0
                                                                                                                             Ward
         98
                              98 392491
                                                              Mrs.
                                                                                                                  R
                                                                            Theresa
                                                                                                                           Murphy
         99
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                                                              Drs.
                                                                               Tammy
                                                                                                                 В
                                                                                                                             Young
                                                                                                              Mother's Name \
                                                       E Mail
                                                                           Father's Name
         0
                        lois.walker@hotmail.com
                                                                           Donald Walker
                                                                                                               Helen Walker
                     brenda.robinson@gmail.com Raymond Robinson
                                                                                                              Judy Robinson
                          joe.robinson@gmail.com
                                                                         Scott Robinson Stephanie Robinson
                                                                                                            Michelle Evans
         3
                            diane.evans@yahoo.com
                                                                             Jason Evans
                benjamin.russell@charter.net
                                                                       Gregory Russell
                                                                                                       Elizabeth Russell
```

drive.mount('/content/drive')

9 9	. jose.hill@r 66 harold.nelsor 77 nicole.ward 88 theresa.murphy 19 tammy.young@g	@gmail.com @yahoo.com @gmail.com	Carlos Hill Richard Nelson Ralph Ward George Murphy Andrew Young	Pamela Nelson Julia Ward Jacqueline Murphy
0 1 2 3	Perr Taylo	s 168251 by 51063 or 50155 on 180294		
9 9	 95 Haye 96 Smit	s 129774 th 156194 ee 95673		
г	100 121	1		

[100 rows x 12 columns]