New section

```
import pandas as pd
import seaborn as sns
sns.get_dataset_names()
['anagrams',
 'anscombe',
'attention',
 'brain_networks',
 'car_crashes',
 'diamonds',
 'dots',
 'dowjones',
 'exercise',
 'flights',
 'fmri',
 'geyser',
 'glue',
 'healthexp',
 'iris',
 'mpg',
 'penguins',
 'planets',
 'seaice',
 'taxis',
 'tips',
 'titanic']
df=sns.load_dataset('flights')
df
     year month passengers
     1949
              Jan
                          112
      1949
              Feb
                          118
      1949
              Mar
                          132
      1949
              Apr
                          129
      1949
             May
                          121
 139
     1960
              Aug
                          606
 140
     1960
                          508
              Sep
                          461
 141 1960
              Oct
 142 1960
             Nov
                          390
143 1960
             Dec
                          432
144 rows × 3 columns
df.head()
   year month passengers
0 1949
                        112
           Jan
 1 1949
           Feb
                        118
 2 1949
           Mar
                        132
 3 1949
                        129
 4 1949
           May
                        121
```

df.tail()

```
year month passengers
139 1960
           Aug
                       606
   1960
                       508
140
            Sep
    1960
                       461
141
            Oct
142
    1960
            Nov
                       390
143 1960
           Dec
                       432
```

```
df.describe()
              year passengers
count
        144.000000 144.000000
       1954.500000
mean
                    280.298611
 std
          3.464102 119.966317
 min
       1949.000000
                    104.000000
 25%
       1951.750000
                    180.000000
                    265.500000
 50%
       1954.500000
 75%
       1957.250000
                    360.500000
 max
       1960.000000 622.000000
```

```
df.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 144 entries, 0 to 143 \,
Data columns (total 3 columns):
               Non-Null Count Dtype
# Column
0
    year
                144 non-null
                144 non-null
1 month
                                category
2 passengers 144 non-null
                                int64
dtypes: category(1), int64(2)
memory usage: 2.9 KB
```

New Section

```
import pandas as pd

data=pd.read_csv("Walmart_Sales.csv")

data
```

	Store	Date	Weekly_Sales	Holiday Flag	Temperature	Fuel Price	CPI	Unemployment
0	1	05-02-2010	1643690.90	0	42.31	-	211.096358	8.106
1	1	12-02-2010	1641957.44	1	38.51	2.548	211.242170	8.106
2	1	19-02-2010	1611968.17	0	39.93	2.514	211.289143	8.106
3	1	26-02-2010	1409727.59	0	46.63	2.561	211.319643	8.106
4	1	05-03-2010	1554806.68	0	46.50	2.625	211.350143	8.106
6430	45	28-09-2012	713173.95	0	64.88	3.997	192.013558	8.684
6431	45	05-10-2012	733455.07	0	64.89	3.985	192.170412	8.667
6432	45	12-10-2012	734464.36	0	54.47	4.000	192.327265	8.667
6433	45	19-10-2012	718125.53	0	56.47	3.969	192.330854	8.667
6434	45	26-10-2012	760281.43	0	58.85	3.882	192.308899	8.667
6435 ro	ws × 8 c	columns						

	a.head((10)						
	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI	Unemployment
0	1	05-02-2010	1643690.90	0	42.31	2.572	211.096358	8.106
1	1	12-02-2010	1641957.44	1	38.51	2.548	211.242170	8.106
2	1	19-02-2010	1611968.17	0	39.93	2.514	211.289143	8.106
3	1	26-02-2010	1409727.59	0	46.63	2.561	211.319643	8.106
4	1	05-03-2010	1554806.68	0	46.50	2.625	211.350143	8.106
5	1	12-03-2010	1439541.59	0	57.79	2.667	211.380643	8.106
6	1	19-03-2010	1472515.79	0	54.58	2.720	211.215635	8.106
7	1	26-03-2010	1404429.92	0	51.45	2.732	211.018042	8.106
8	1	02-04-2010	1594968.28	0	62.27	2.719	210.820450	7.808
9	1	09-04-2010	1545418.53	0	65.86	2.770	210.622857	7.808

data.de	escribe()						
	Store	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI	Unemployment
count	6435.000000	6.435000e+03	6435.000000	6435.000000	6435.000000	6435.000000	6435.000000
mean	23.000000	1.046965e+06	0.069930	60.663782	3.358607	171.578394	7.999151
std	12.988182	5.643666e+05	0.255049	18.444933	0.459020	39.356712	1.875885
min	1.000000	2.099862e+05	0.000000	-2.060000	2.472000	126.064000	3.879000
25%	12.000000	5.533501e+05	0.000000	47.460000	2.933000	131.735000	6.891000
50%	23.000000	9.607460e+05	0.000000	62.670000	3.445000	182.616521	7.874000
75%	34.000000	1.420159e+06	0.000000	74.940000	3.735000	212.743293	8.622000
max	45.000000	3.818686e+06	1.000000	100.140000	4.468000	227.232807	14.313000

```
data.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 6435 entries, 0 to 6434
Data columns (total 8 columns):
               Non-Null Count Dtype
# Column
0 Store
                6435 non-null int64
                 6435 non-null
                                object
2 Weekly_Sales 6435 non-null
                                float64
    Holiday_Flag 6435 non-null
                                int64
    Temperature
                 6435 non-null
                                float64
    Fuel_Price
                 6435 non-null
                                float64
                 6435 non-null
    CPI
                                float64
```

7 Unemployment 6435 non-null float64 dtypes: float64(5), int64(2), object(1) memory usage: 402.3+ KB

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI	Unemployment
0	False	False	False	False	False	False	False	False
1	False	False	False	False	False	False	False	False
2	False	False	False	False	False	False	False	False
3	False	False	False	False	False	False	False	False
4	False	False	False	False	False	False	False	False
6430	False	False	False	False	False	False	False	False
6431	False	False	False	False	False	False	False	False
6432	False	False	False	False	False	False	False	False
6433	False	False	False	False	False	False	False	False
6434	False	False	False	False	False	False	False	False

Store Date Weekly_Sales Holiday_Flag Temperature Fuel_Price CPI Unemployment 6425 45 24-08-2012 718232.26 0 72.62 3.834 191.344887 8.684 6426 45 31-08-2012 734297.87 0 75.09 3.867 191.461281 8.684 6427 45 07-09-2012 766512.66 1 75.70 3.911 191.577676 8.684 6428 45 14-09-2012 702238.27 0 67.87 3.948 191.699850 8.684 6429 45 21-09-2012 723086.20 0 65.32 4.038 191.856704 8.684 6430 45 28-09-2012 713173.95 0 64.88 3.997 192.013558 8.684 6431 45 05-10-2012 733455.07 0 64.89 3.985 192.170412 8.667
6426 45 31-08-2012 734297.87 0 75.09 3.867 191.461281 8.684 6427 45 07-09-2012 766512.66 1 75.70 3.911 191.577676 8.684 6428 45 14-09-2012 702238.27 0 67.87 3.948 191.699850 8.684 6429 45 21-09-2012 723086.20 0 65.32 4.038 191.856704 8.684 6430 45 28-09-2012 713173.95 0 64.88 3.997 192.013558 8.684
6427 45 07-09-2012 766512.66 1 75.70 3.911 191.577676 8.684 6428 45 14-09-2012 702238.27 0 67.87 3.948 191.699850 8.684 6429 45 21-09-2012 723086.20 0 65.32 4.038 191.856704 8.684 6430 45 28-09-2012 713173.95 0 64.88 3.997 192.013558 8.684
6428 45 14-09-2012 702238.27 0 67.87 3.948 191.699850 8.684 6429 45 21-09-2012 723086.20 0 65.32 4.038 191.856704 8.684 6430 45 28-09-2012 713173.95 0 64.88 3.997 192.013558 8.684
6429 45 21-09-2012 723086.20 0 65.32 4.038 191.856704 8.684 6430 45 28-09-2012 713173.95 0 64.88 3.997 192.013558 8.684
6430 45 28-09-2012 713173.95 0 64.88 3.997 192.013558 8.684
6431 45 05-10-2012 733455.07 0 64.89 3.985 192.170412 8.667
6432 45 12-10-2012 734464.36 0 54.47 4.000 192.327265 8.667
6433 45 19-10-2012 718125.53 0 56.47 3.969 192.330854 8.667
6434 45 26-10-2012 760281.43 0 58.85 3.882 192.308899 8.667

New Section

import pandas as pd

data=pd.read_csv("insurance.csv")

Double-click (or enter) to edit

data

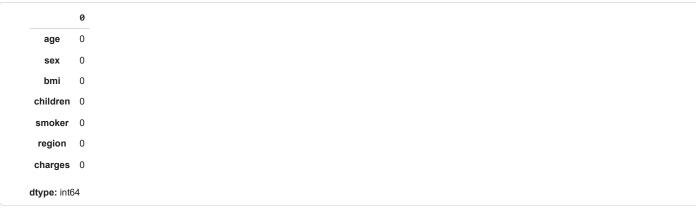
	age	sex	bmi	children	smoker	region	charges
0	19	female	27.900	0	yes	southwest	16884.92400
1	18	male	33.770	1	no	southeast	1725.55230
2	28	male	33.000	3	no	southeast	4449.46200
3	33	male	22.705	0	no	northwest	21984.47061
4	32	male	28.880	0	no	northwest	3866.85520
•••							
1333	50	male	30.970	3	no	northwest	10600.54830
1334	18	female	31.920	0	no	northeast	2205.98080
1335	18	female	36.850	0	no	southeast	1629.83350
1336	21	female	25.800	0	no	southwest	2007.94500
1337	61	female	29.070	0	yes	northwest	29141.36030
1338 ro	ws×	7 column	s				

```
data.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1338 entries, 0 to 1337
Data columns (total 7 columns):
    Column
              Non-Null Count Dtype
              1338 non-null
                              int64
    age
     sex
              1338 non-null
                              object
              1338 non-null
    bmi
                              float64
3
    children 1338 non-null
                              int64
     smoker
              1338 non-null
                              object
              1338 non-null
    region
                              object
    charges
              1338 non-null
                              float64
dtypes: float64(2), int64(2), object(3)
memory usage: 73.3+ KB
```

data.shape
(1338, 7)

```
data.isnull()
        age
               sex
                     bmi children smoker region charges
      False False False
                              False
                                       False
                                               False
                                                        False
      False False False
                              False
                                       False
                                               False
                                                        False
      False False False
                              False
                                               False
                                                        False
  2
                                       False
                              False
                                                        False
  3
      False False
                    False
                                       False
                                               False
      False False False
                              False
                                       False
                                               False
                                                        False
1333 False False False
                              False
                                       False
                                               False
                                                        False
1334 False False False
                              False
                                       False
                                               False
                                                        False
1335 False False False
                              False
                                       False
                                               False
                                                        False
1336 False False False
                              False
                                       False
                                               False
                                                        False
1337 False False False
                              False
                                       False
                                               False
                                                        False
1338 rows × 7 columns
```

data.isnull().sum()



```
data.duplicated()
            0
       False
       False
  2
       False
  3
       False
       False
 1333 False
 1334 False
 1335 False
 1336 False
 1337 False
1338 rows × 1 columns
dtype: bool
Start coding or \underline{\text{generate}} with AI.
```

New Section

```
import pandas as pd
import seaborn as sns
import matplotlib.pyplot
```

New Section

```
data

data

data
```

I	Restaurant ID	Restaurant name	Subzone	City	Order ID	Order Placed At	Order Status	Delivery	Distance	Items in order	 Rating	Revi
0	20320607	Swaad	Sector 4	Delhi NCR	6168884918	11:38 PM, September 10 2024	Delivered	Zomato Delivery	3km	1 x Grilled Chicken Jamaican Tender, 1 x Grill	 NaN	N
1	20320607	Swaad	Sector 4	Delhi NCR	6170707559	11:34 PM, September 10 2024	Delivered	Zomato Delivery	2km	1 x Peri Peri Fries, 1 x Fried Chicken Angara	 NaN	N
2	20320607	Swaad	Sector 4	Delhi NCR	6169375019	03:52 PM, September 10 2024	Delivered	Zomato Delivery	<1km	1 x Bone in Peri Peri Grilled Chicken	 NaN	N
3	20320607	Swaad	Sector 4	Delhi NCR	6151677434	03:45 PM, September 10 2024	Delivered	Zomato Delivery	2km	1 x Fried Chicken Ghostbuster Tender, 1 x Anga	 4.0	N
4	20320607	Swaad	Sector 4	Delhi NCR	6167540897	03:04 PM, September 10 2024	Delivered	Zomato Delivery	2km	1 x Peri Peri Krispers, 1 x Fried Chicken Anga	 NaN	N
21316	21467440	The Chicken Junction	Chittaranjan Park	Delhi NCR	6568490993	03:26 AM, January 30 2025	Delivered	Zomato Delivery	5km	1 x Fried Chicken Desi Peri Peri Bites (Bone)	 NaN	N
21317	21467440	The Chicken Junction	Chittaranjan Park	Delhi NCR	6564842673	02:44 AM, January 29 2025	Delivered	Zomato Delivery	5km	1 x Fried Chicken 65 Masala Boneless Bites	 NaN	N
21318	21523055	Masala Junction	Sector 4	Delhi NCR	6553527557	10:05 PM, January 24 2025	Delivered	Zomato Delivery	8km	1 x Korean Fried Chicken Slider	 5.0	Yum foo Delicio food! smack food
21319	21523055	Masala Junction	Sector 4	Delhi NCR	6541170157	02:27 PM, January 21 2025	Delivered	Zomato Delivery	9km	1 x Ooh Saucy Fries	 4.0	The peri fr we truly tasty a
21320	21523055	Masala Junction	Sector 4	Delhi NCR	6543973010	02:55 AM, January 21 2025	Delivered	Zomato Delivery	3km	1 x Grilled Chicken Jamaican Slider	 NaN	N
21321 rov	ws × 29 colum	ins										

data.head()

	Restaurant ID	Restaurant name	Subzone	City	Order ID	Order Placed At	Order Status	Delivery	Distance	Items in order		Rating	Review	Can /
0	20320607	Swaad	Sector 4	Delhi NCR	6168884918	11:38 PM, September 10 2024	Delivered	Zomato Delivery	3km	1 x Grilled Chicken Jamaican Tender, 1 x Grill		NaN	NaN	
1	20320607	Swaad	Sector 4	Delhi NCR	6170707559	11:34 PM, September 10 2024	Delivered	Zomato Delivery	2km	1 x Peri Peri Fries, 1 x Fried Chicken Angara	•••	NaN	NaN	
2	20320607	Swaad	Sector 4	Delhi NCR	6169375019	03:52 PM, September 10 2024	Delivered	Zomato Delivery	<1km	1 x Bone in Peri Peri Grilled Chicken		NaN	NaN	
3	20320607	Swaad	Sector 4	Delhi NCR	6151677434	03:45 PM, September 10 2024	Delivered	Zomato Delivery	2km	1 x Fried Chicken Ghostbuster Tender, 1 x Anga		4.0	NaN	
4	20320607	Swaad	Sector 4	Delhi NCR	6167540897	03:04 PM, September 10 2024	Delivered	Zomato Delivery	2km	1 x Peri Peri Krispers, 1 x Fried Chicken Anga		NaN	NaN	
ō ro	vs × 29 columr	าร												

21467440	The Chicken Junction	Chittaranjan Park	Delhi NCR	6568490993	03:26 AM,				1 x Fried			
				0300430393	January 30 2025	Delivered	Zomato Delivery	5km	Chicken Desi Peri Peri Bites (Bone)		NaN	Na
21467440	The Chicken Junction	Chittaranjan Park	Delhi NCR	6564842673	02:44 AM, January 29 2025	Delivered	Zomato Delivery	5km	1 x Fried Chicken 65 Masala Boneless Bites		NaN	Na
21523055	Masala Junction	Sector 4	Delhi NCR	6553527557	10:05 PM, January 24 2025	Delivered	Zomato Delivery	8km	1 x Korean Fried Chicken Slider		5.0	Yumn foo Delicion food! L smackin food!
21523055	Masala Junction	Sector 4	Delhi NCR	6541170157	02:27 PM, January 21 2025	Delivered	Zomato Delivery	9km	1 x Ooh Saucy Fries		4.0	The peri fric we truly s tasty ar de
21523055	Masala Junction	Sector 4	Delhi NCR	6543973010	02:55 AM, January 21 2025	Delivered	Zomato Delivery	3km	1 x Grilled Chicken Jamaican Slider		NaN	Na
	21523055	21523055 Junction 21523055 Masala 21523055 Masala	21523055 Junction Sector 4 21523055 Masala Junction Sector 4	21523055 Junction Sector 4 NCR 21523055 Masala Junction Sector 4 Delhi NCR	21523055 Junction Sector 4 NCR 6553527557 21523055 Masala Junction Sector 4 Delhi 6541170157 21523055 Masala Sector 4 Delhi 6543073010	21523055 Masala Junction Sector 4 Delhi NCR 6553527557 January 24 2025 Masala Junction Sector 4 Delhi NCR 6541170157 PM, January 21 2025 Masala Junction Sector 4 Delhi NCR 6543973010 AM, January 21 2025	21523055 Masala Junction Sector 4 Polhi NCR 6553527557 January 24 2025 Delivered 21523055 Masala Junction Sector 4 Polhi NCR 6541170157 PM,	21523055 Masala Junction Sector 4 NCR 6553527557 PM, January 24 2025 Masala Junction Sector 4 NCR 6553527557 Delivered 202:27 PM, January 21 2025 Masala Junction Sector 4 Delhi NCR 6541170157 PM, January 21 2025 Masala Junction Sector 4 Delhi NCR 6543973010 AM, January 21 Delivered Delivery	21523055 Masala Junction Sector 4 Delhi NCR 6553527557 January 24 2025 Delivered Delivery 8km 21523055 Masala Junction Sector 4 Delhi NCR 6541170157 PM, January 21 2025 Masala Junction Sector 4 Delhi NCR 6543973010 January 21 Delivered Delivery 3km O2:27 PM, January 21 Delivered Delivery 9km O2:55 AM, January 21 Delivered Zomato Delivery 3km	21523055 Masala Junction Sector 4 Delhi NCR 6553527557 January 24 2025 Delivered Delivery Sider 10:05 PM, January 24 24 2025 Delivered Delivery Sider 1 x Korean Fried Chicken Slider 02:27 PM, January 21 21 2025 21523055 Masala Junction Sector 4 Delhi NCR 6541170157 AM, January 21 2025 Delivered Delivery Saucy Fries 02:55 AM, January 21 Delivered Delivery 3km Grilled Grilled Chicken Slider	21523055 Masala Junction Sector 4 Delhi NCR 6553527557 Delivered 24 2025 Delivered Delivery Saucy Sector 4 Delhi NCR 6543973010 Delivered Delivered Delivery Saucy Sector 4 Delhi NCR 6543973010 Delivered Delivered Delivery Saucy Sector 4 Delivered Delivery Saucy Sector 4 Delhi NCR 6543973010 Delivered Delivered Delivery Saucy Sector 4 Delivered Delivery Saucy Sector 4 Delhi NCR 6543973010 Delivered Delivered Delivery Saucy Sector 4 Delivered Delivery Saucy Sector 3 Delivered Delivered Delivery Saucy Sector 3 Delivered Deliv	21523055 Masala Junction Sector 4 Delhi NCR 6553527557 January 24 2025 Delivered Delivery 8km Fried Chicken Slider 5.0 1 x Korean Fried Chicken Slider 5.0 21523055 Masala Junction Sector 4 Delhi NCR 6541170157 January 21 2025 Masala Junction Sector 4 Delhi NCR 6543973010 January 21 Delivered Delivery 21 Delivered Delivery Saucy Fries 4.0 21523055 Masala Junction Sector 4 Delhi NCR 6543973010 January 21 Delivered Delivery 21 Delivered Delivery Saucy 3km Chicken NaN

data.describe()

	Restaurant ID	Order ID	Bill subtotal	Packaging charges	Restaurant discount (Promo)	Restaurant discount (Flat offs, Freebies & others)	Gold discount	Brand pack discount	Total	
count	2.132100e+04	2.132100e+04	21321.000000	21321.000000	21321.000000	21321.000000	21321.000000	21321.000000	21321.000000	24
mean	2.074413e+07	6.354622e+09	750.076838	32.564592	65.091816	31.795058	0.099128	3.039324	682.616113	
std	2.447193e+05	1.230263e+08	498.759428	22.235898	85.401604	131.487091	3.264261	17.070780	465.313977	
min	2.032061e+07	6.086767e+09	50.000000	0.000000	0.000000	0.000000	0.000000	0.000000	52.500000	
25%	2.063570e+07	6.250751e+09	459.000000	18.450000	0.000000	0.000000	0.000000	0.000000	387.450000	
50%	2.065987e+07	6.357715e+09	629.000000	28.450000	80.000000	0.000000	0.000000	0.000000	597.450000	
75%	2.088265e+07	6.456827e+09	899.000000	39.950000	100.000000	0.000000	0.000000	0.000000	837.900000	
max	2.152306e+07	6.573392e+09	16080.000000	603.000000	4020.000000	7787.000000	280.100000	554.800000	12663.000000	

```
data.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 21321 entries, 0 to 21320
Data columns (total 29 columns):
# Column
                                                       Non-Null Count Dtype
    Restaurant ID
                                                       21321 non-null
                                                                       int64
    Restaurant name
                                                       21321 non-null object
1
    Subzone
                                                       21321 non-null object
                                                       21321 non-null
    City
                                                                       object
    Order ID
                                                       21321 non-null int64
    Order Placed At
                                                       21321 non-null object
    Order Status
                                                       21321 non-null
                                                                       object
                                                       21321 non-null object
    Delivery
    Distance
                                                       21321 non-null
                                                                       object
    Items in order
                                                       21321 non-null
                                                                       object
10 Instructions
                                                       720 non-null
11 Discount construct
                                                       15823 non-null
                                                                       object
                                                       21321 non-null
12 Bill subtotal
                                                                       float64
13 Packaging charges
                                                       21321 non-null float64
14 Restaurant discount (Promo)
                                                       21321 non-null
                                                                       float64
15 Restaurant discount (Flat offs, Freebies & others) 21321 non-null float64
16 Gold discount
                                                       21321 non-null float64
17 Brand pack discount
                                                       21321 non-null
                                                                       float64
18 Total
                                                       21321 non-null float64
                                                       2491 non-null
                                                                       float64
19 Rating
20 Review
                                                       296 non-null
                                                                       object
21 Cancellation / Rejection reason
                                                       186 non-null
                                                                       object
22 Restaurant compensation (Cancellation)
                                                       133 non-null
                                                                       float64
23 Restaurant penalty (Rejection)
                                                       3 non-null
                                                                       float64
                                                       21026 non-null float64
24 KPT duration (minutes)
25 Rider wait time (minutes)
                                                       21153 non-null float64
26 Order Ready Marked
                                                       21321 non-null object
27 Customer complaint tag
                                                       469 non-null
                                                                       object
                                                       21321 non-null object
28 Customer ID
dtypes: float64(12), int64(2), object(15)
memory usage: 4.7+ MB
```

data.isnull()

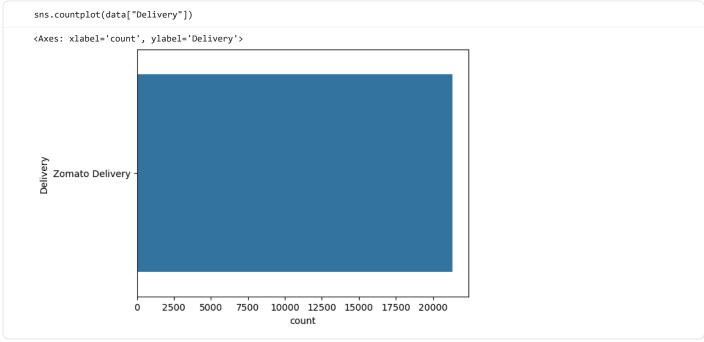
	Restaurant ID	Restaurant name	Subzone	City	Order ID	Order Placed At	Order Status	Delivery	Distance	Items in order	 Rating	Review	Cancellation / Rejection reason	(
0	False	False	False	False	False	False	False	False	False	False	 True	True	True	
1	False	False	False	False	False	False	False	False	False	False	 True	True	True	
2	False	False	False	False	False	False	False	False	False	False	 True	True	True	
3	False	False	False	False	False	False	False	False	False	False	 False	True	True	
4	False	False	False	False	False	False	False	False	False	False	 True	True	True	
	•••	•••									 		•••	
21316	False	False	False	False	False	False	False	False	False	False	 True	True	True	
21317	False	False	False	False	False	False	False	False	False	False	 True	True	True	
21318	False	False	False	False	False	False	False	False	False	False	 False	False	True	
21319	False	False	False	False	False	False	False	False	False	False	 False	False	True	
21320	False	False	False	False	False	False	False	False	False	False	 True	True	True	
21321 r	ows × 29 colum	nns												

data.isnull().sum()

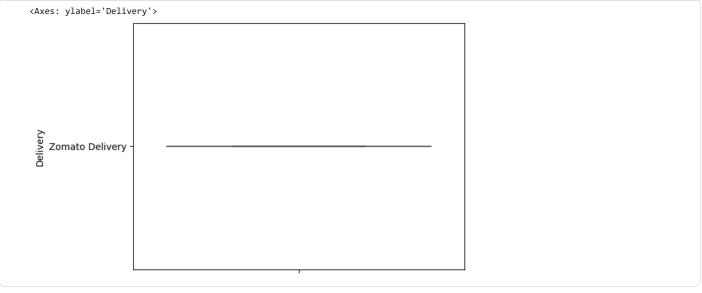
	0
Restaurant ID	0
Restaurant name	0
Subzone	0
City	0
Order ID	0
Order Placed At	0
Order Status	0
Delivery	0
Distance	0
Items in order	0
Instructions	20601
Discount construct	5498
Bill subtotal	0
Packaging charges	0
Restaurant discount (Promo)	0
Restaurant discount (Flat offs, Freebies & others)	0
Gold discount	0
Brand pack discount	0
Total	0
Rating	18830
Review	21025
Cancellation / Rejection reason	21135
Restaurant compensation (Cancellation)	21188
Restaurant penalty (Rejection)	21318
KPT duration (minutes)	295
Rider wait time (minutes)	168
Order Ready Marked	0
Customer complaint tag	20852
Customer ID	0

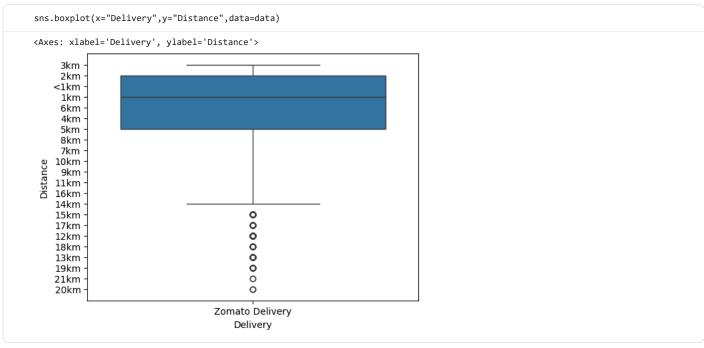
sns.displot(data["Delivery"])





sns.boxplot(data["Delivery"])





```
from sklearn.preprocessing import LabelEncoder
le=LabelEncoder()
data["Delivery"]=le.fit_transform(data["Delivery"])
data["Distance"]=le.fit_transform(data["Distance"])
```

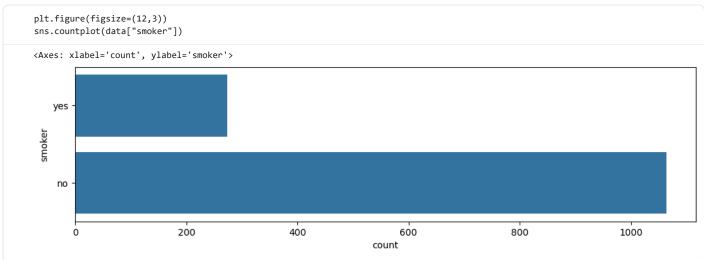
New Section

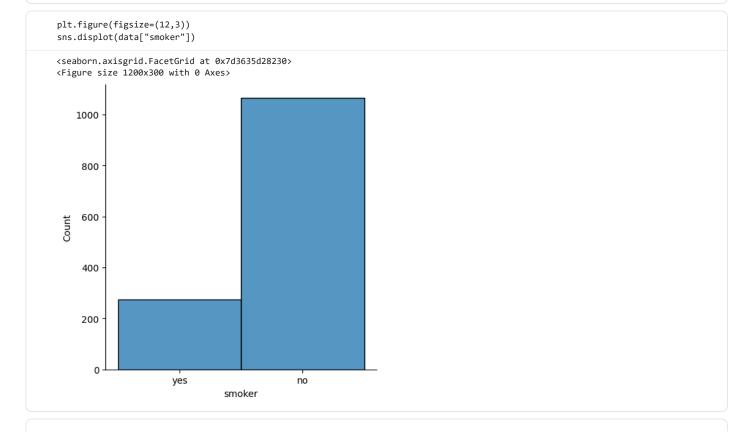
```
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt

data=pd.read_csv("insurance.csv")

data
```

	age	sex	bmi	children	smoker	region	charges	
0	19	female	27.900	0	yes	southwest	16884.92400	
1	18	male	33.770	1	no	southeast	1725.55230	
2	28	male	33.000	3	no	southeast	4449.46200	
3	33	male	22.705	0	no	northwest	21984.47061	
4	32	male	28.880	0	no	northwest	3866.85520	
1333	50	male	30.970	3	no	northwest	10600.54830	
1334	l 18	female	31.920	0	no	northeast	2205.98080	
1335	18	female	36.850	0	no	southeast	1629.83350	
1336	21	female	25.800	0	no	southwest	2007.94500	
1337	61	female	29.070	0	yes	northwest	29141.36030	
1338	1338 rows × 7 columns							





```
from sklearn.preprocessing import LabelEncoder
le=LabelEncoder()
data["sex"]=le.fit_transform(data["sex"])
data["smoker"]=le.fit_transform(data["smoker"])
data["region"]=le.fit_transform(data["region"])
```

```
plt.figure(figsize=(4,3))
sns.heatmap(data.corr())
plt.show()
                                                      - 1.0
      age
                                                      - 0.8
      sex
     bmi
                                                      - 0.6
 children -
                                                       0.4
 smoker
                                                        0.2
   region
 charges
                            children -
                       bmi
                                   smoker
                                        region
```

