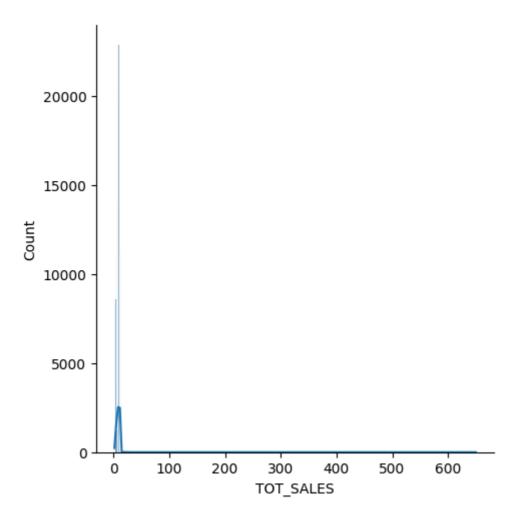
```
import pandas as pd
   In [1]:
            import numpy as np
            import seaborn as sns
   In [9]: #import dataset
            file_path = "D:/Internship/Quantium/"
            transaction_data = pd.read_excel(file_path + "QVI_transaction_data.xlsx")
  In [11]: transaction_data.head()
  Out[11]:
               DATE STORE_NBR LYLTY_CARD_NBR TXN_ID PROD_NBR
                                                                          PROD_NAME PROD_C
                                                                           Natural Chip
            0 43390
                               1
                                              1000
                                                         1
                                                                     5
                                                                               Compny
                                                                           SeaSalt175g
                                                                             CCs Nacho
            1 43599
                               1
                                              1307
                                                       348
                                                                    66
                                                                           Cheese 175g
                                                                          Smiths Crinkle
            2 43605
                               1
                                                       383
                                                                    61
                                              1343
                                                                              Cut Chips
                                                                          Chicken 170g
                                                                            Smiths Chip
                                                                                Thinly
            3 43329
                               2
                                              2373
                                                       974
                                                                        S/Cream&Onion
                                                                                 175q
                                                                           Kettle Tortilla
                               2
                                              2426
                                                      1038
                                                                   108
                                                                       ChpsHny&Jlpno
            4 43330
                                                                             Chili 150g
  In [15]: #Read the customer data into a panda DataFrame
            customer_data = pd.read_csv(file_path + "QVI_purchase_behaviour.csv")
  In [16]: customer_data.head()
  Out[16]:
               LYLTY_CARD_NBR
                                              LIFESTAGE PREMIUM_CUSTOMER
            0
                           1000
                                 YOUNG SINGLES/COUPLES
                                                                      Premium
            1
                           1002
                                 YOUNG SINGLES/COUPLES
                                                                   Mainstream
            2
                           1003
                                         YOUNG FAMILIES
                                                                       Budget
            3
                                  OLDER SINGLES/COUPLES
                           1004
                                                                   Mainstream
                           1005 MIDAGE SINGLES/COUPLES
                                                                   Mainstream
SUMMARIZE DATASET
  In [17]: transaction_data.describe()
```

Out[17]:		DATE	STORE_NBR	LYLTY_CARD_NBR	TXN_ID	PROD_NBR					
	count	264836.000000	264836.00000	2.648360e+05	2.648360e+05	264836.000000	26				
	mean	43464.036260	135.08011	1.355495e+05	1.351583e+05	56.583157					
	std	105.389282	76.78418	8.057998e+04	7.813303e+04	32.826638					
	min	43282.000000	1.00000	1.000000e+03	1.000000e+00	1.000000					
	25%	43373.000000	70.00000	7.002100e+04	6.760150e+04	28.000000					
	50%	43464.000000	130.00000	1.303575e+05	1.351375e+05	56.000000					
	75%	43555.000000	203.00000	2.030942e+05	2.027012e+05	85.000000					
	max	43646.000000	272.00000	2.373711e+06	2.415841e+06	114.000000					
	4										
CK THE N	NULL										
[18]:	transa	ction_data.isn	ull().sum()								
CK THE I	TXN_ID PROD_N PROD_Q TOT_SA dtype: DATA TY	IBR 0 IAME 0 ITY 0 ILES 0 int64	tion_data.dty	pes							
5 L F F F	DATE STORE_NE	il BR il ARD_NBR il R il ME obj / il	nt64 nt64 nt64 nt64 nt64 ject nt64								
MINE TH		_									
n [22]:		matplotlib.py seaborn as sn									
n [23]:	sns.di	<pre>sns.displot(transaction_data.TOT_SALES, kde = True)</pre>									
Out[23]: <seaborn.axisgrid.facetgrid 0x16e7fe49400="" at=""></seaborn.axisgrid.facetgrid>											



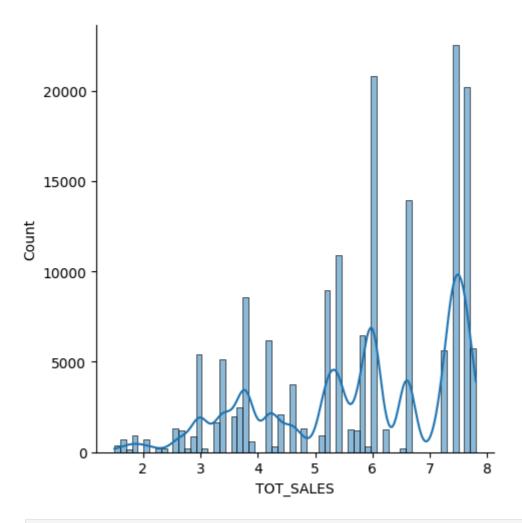
In [24]: numericdata = transaction_data.select_dtypes (['float' , 'int'])
 numericdata.head()

Out[24]:		DATE	STORE_NBR	LYLTY_CARD_NBR	TXN_ID	PROD_NBR	PROD_QTY	TOT_SALES
	0	43390	1	1000	1	5	2	6.0
	1	43599	1	1307	348	66	3	6.3
	2	43605	1	1343	383	61	2	2.9
	3	43329	2	2373	974	69	5	15.0
	4	43330	2	2426	1038	108	3	13.8

In [26]: x = numericdata[numericdata['TOT_SALES']<8.000]</pre>

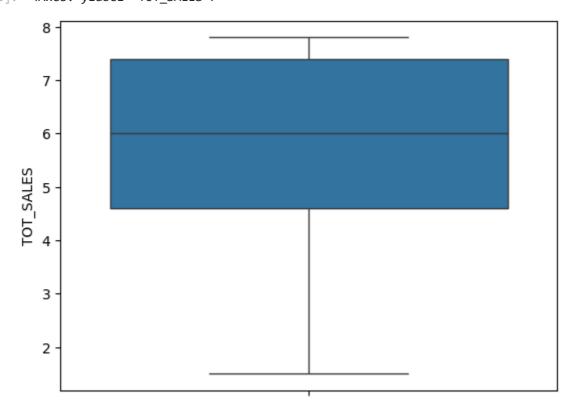
In [27]: sns.displot(x.TOT_SALES, kde = True)

Out[27]: <seaborn.axisgrid.FacetGrid at 0x16e12d37250>



In [28]: sns.boxplot(x.TOT_SALES)

Out[28]: <Axes: ylabel='TOT_SALES'>



In []: