```
import pandas as pd
In [1]:
          df = pd.read csv('C:\Users\alice\Desktop\amazon-order.csv')
          df.hhead()
           File "<ipython-input-1-cf0a4bf74801>", line 3
              df = pd.read_csv('C:\Users\alice\Desktop\amazon-order.csv')
         SyntaxError: (unicode error) 'unicodeescape' codec can't decode bytes in position 2-3: t
         runcated \UXXXXXXX escape
In [3]:
          import pandas as pd
          df = pd.read_csv('amazon-order.csv')
          df.head()
Out[3]:
                                                                        UNSPSC
                Order
                                                                                                 Release
                       Order ID
                                        Title
                                               Category
                                                          ASIN/ISBN
                                                                                     Website
                                                                                                          Coi
                 Date
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                                  Essentials of
                           110-
                                   Corporate
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                                     Finance
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                                       hill/I...
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                                      Theory,
                                                                                                 2015-01-
         1 1/16/2017
                       2550400-
                                  Application,
                                              ABIS_BOOK 1285866355 55101500.0 Amazon.com
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                                      & Skill
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                                      Devel...
                                 Essentials of
                           110-
                                   Marketing
                                                                                                 2015-04-
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                       9164244-
                                    Research
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                        5401016
                                        (with
                                     Qualtri...
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                                  Information
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                        7589858
                                     Systems:
                                  Supportin...
                           112-
                                 Intermediate
                                                                                                 2016-04-
                       1405284-
                                              ABIS_BOOK 1118743202 55101500.0 Amazon.com
            8/14/2017
                                  Accounting
                                                                                              04T00:00:01
                                                                                                         acc
                        4307450
        5 rows × 36 columns
          df = df.fillna(0)
In [7]:
          df.head()
Out[7]:
                                                                        UNSPSC
                Order
                                                                                                 Release
                       Order ID
                                        Title
                                               Category
                                                          ASIN/ISBN
                                                                                     Website
                                                                                                          Coi
                 Date
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                                                                                                    Date
```

	Order Date	Order ID	Title	Category	ASIN/ISBN	UNSPSC Code	Website	Release Date	Соі
0	1/16/2017	110- 4423970- 9538658	Essentials of Corporate Finance (Mcgraw- hill/I	ABIS_BOOK	1259277216	55101500.0	Amazon.com	2016-02- 18T00:00:01	acc
1	1/16/2017	110- 2550400- 8877847	Leadership: Theory, Application, & Skill Devel	ABIS_BOOK	1285866355	55101500.0	Amazon.com	2015-01- 01T00:00:01	acc
2	1/16/2017	110- 9164244- 5401016	Essentials of Marketing Research (with Qualtri	ABIS_BOOK	1305263472	55101500.0	Amazon.com	2015-04- 01T00:00:01	accı
3	1/20/2017	110- 0397678- 7589858	Introduction to Information Systems: Supportin	ABIS_BOOK	1118674367	55101500.0	Amazon.com	2013-11- 11T00:00:01	acc
4	8/14/2017	112- 1405284- 4307450	Intermediate Accounting	ABIS_BOOK	1118743202	55101500.0	Amazon.com	2016-04- 04T00:00:01	acc
5 -	owc × 26 c	alumne							

5 rows × 36 columns

In [10]: df['Item Total'] = df['Item Total'].str.replace('\$','').astype(float)
df.head()

Out[10]:

	Order Date	Order ID	Title	Category	ASIN/ISBN	UNSPSC Code	Website	Release Date	Соі
0	1/16/2017	110- 4423970- 9538658	Essentials of Corporate Finance (Mcgraw- hill/I	ABIS_BOOK	1259277216	55101500.0	Amazon.com	2016-02- 18T00:00:01	acc
1	1/16/2017	110- 2550400- 8877847	Leadership: Theory, Application, & Skill Devel	ABIS_BOOK	1285866355	55101500.0	Amazon.com	2015-01- 01T00:00:01	acc
2	1/16/2017	110- 9164244- 5401016	Essentials of Marketing Research (with Qualtri	ABIS_BOOK	1305263472	55101500.0	Amazon.com	2015-04- 01T00:00:01	accı

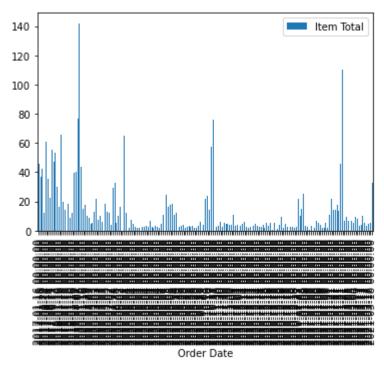
		Order Date	Order ID	Title	Category	ASIN/ISBN	UNSPSC Code	Website	Release Date	Соі
	3 1/	20/2017	110- 0397678- 7589858	Introduction to Information Systems: Supportin	ABIS_BOOK	1118674367	55101500.0	Amazon.com	2013-11- 11T00:00:01	acc
	4 8/	14/2017	112- 1405284- 4307450	Intermediate Accounting	ABIS_BOOK	1118743202	55101500.0	Amazon.com	2016-04- 04T00:00:01	acc
	5 row	s × 36 co	olumns							
	4									•
In [15]:	df['Item To	otal'].sur	m()						
Out[15]:	2422	.77								
In [12]:	df['Item To	otal'].mea	an()						
Out[12]:	13.3	85469613	3259666							
In [13]:	df['Item To	otal'].med	dian()						
Out[13]:	5.4									
In [16]:	df['Item To	otal'].max	×()						
Out[16]:	142.0	ð2								
In [17]:	df['Item To	otal'].mir	n()						
Out[17]:	0.0									
In [18]:		'Item Su nead()	ubtotal Ta	ax'] = df[':	Item Subtot	cal Tax'].st	tr.replace('\$','').ast	ype(float)	
Out[18]:		Order Date	Order ID	Title	Category	ASIN/ISBN	UNSPSC Code	Website	Release Date	Соі
	0 1/	16/2017	110- 4423970- 9538658	Essentials of Corporate Finance (Mcgraw- hill/l	ABIS_BOOK	1259277216	55101500.0	Amazon.com	2016-02- 18T00:00:01	accı
	1 1/	16/2017	110- 2550400- 8877847	Leadership: Theory, Application, & Skill Devel	ABIS_BOOK	1285866355	55101500.0	Amazon.com	2015-01- 01T00:00:01	accı

		Ord Da	der Ordei ate	r ID Ti	itle Catego	ory ASIN/IS	BN Co	Websi	te Relea Da	Coi					
	2	1/16/20			ing rch ABIS_BO vith	OK 13052634	172 55101500	0.0 Amazon.co	2015-0 om 01T00:00:						
	3	1/20/20			to ion ABIS_BO ms:	OK 11186743	367 55101500	0.0 Amazon.co	2013-1 om 11T00:00:						
	4	8/14/20		Account	ARIS RO	OK 11187432	202 55101500	0.0 Amazon.co	2016-0 04T00:00:						
į		ws × 3	6 columns	5											
	df	['Iten	n Subtota	l Tax'].sum	()					•					
	142	2.82													
	df	['Item	n Total']	.sum() / df	['Item Subt	otal Tax'].	sum()								
	16.	. 963800) 58815292												
				= pd.to_dat	tetime(df['	Order Date'	<pre>df['Order Date'] = pd.to_datetime(df['Order Date']) df.head()</pre>								
		Order Date	Order ID	Title	Category	ASIN/ISBN	UNSPSC Code	Website	Release Date	Conditi					
	0		110- 4423970- 9538658	Essentials of Corporate Finance (Mcgraw-hill/I		ASIN/ISBN 1259277216	Code			Condit i u: accepta					
-		Date 2017-	110- 4423970-	Essentials of Corporate Finance (Mcgraw-	ABIS_BOOK		Code 55101500.0		Date 2016-02-	u:					

	Order Date	Order ID	Title	Category	ASIN/ISBN	UNSPSC Code	Website	Release Date	Conditi
3	2017- 01-20	110- 0397678- 7589858	Introduction to Information Systems: Supportin	ABIS_BOOK	1118674367	55101500.0	Amazon.com	2013-11- 11T00:00:01	u: accepta
4	2017- 08-14	112- 1405284- 4307450	Intermediate Accounting	ABIS_BOOK	1118743202	55101500.0	Amazon.com	2016-04- 04T00:00:01	u: accepta

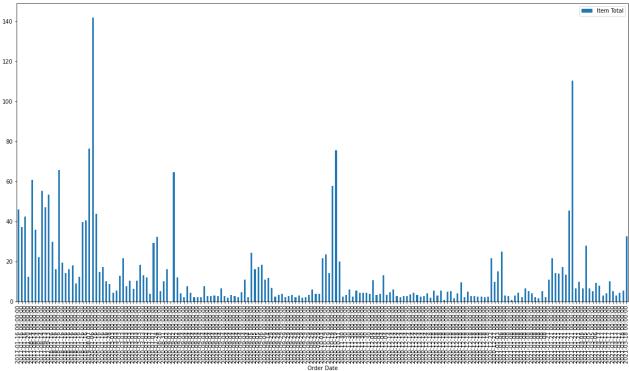
5 rows × 36 columns

Out[23]: <AxesSubplot:xlabel='Order Date'>



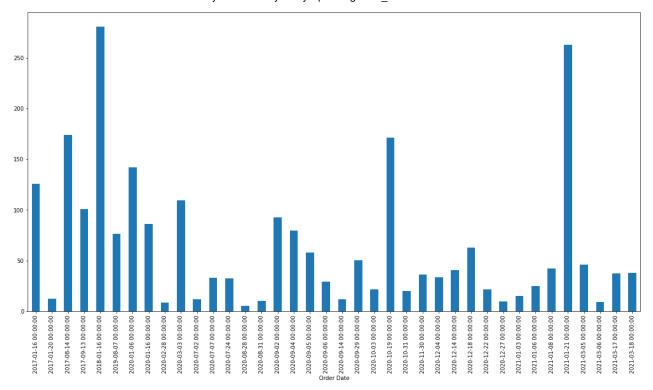
In [24]: df.plot.bar(x='Order Date', y='Item Total', rot=90, figsize=(20,10))

Out[24]: <AxesSubplot:xlabel='Order Date'>



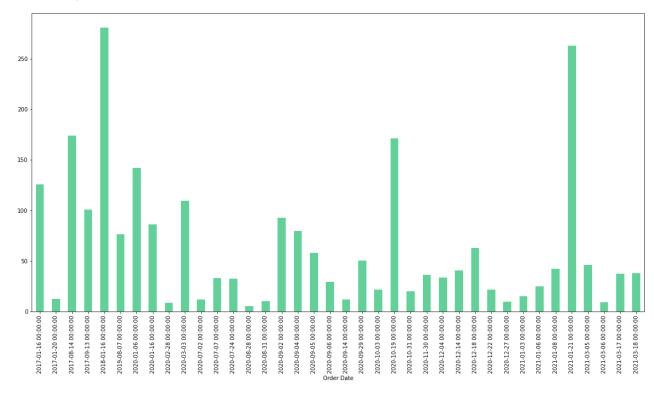
```
daily_orders = df.groupby('Order Date').sum() ['Item Total']
In [25]:
          daily_orders.head()
Out[25]:
         Order Date
          2017-01-16
                        125.50
          2017-01-20
                         12.38
          2017-08-14
                        174.02
          2017-09-13
                        100.65
                        281.02
          2018-01-16
         Name: Item Total, dtype: float64
          daily_orders.plot.bar(figsize=(20,10))
In [26]:
```

Out[26]: <AxesSubplot:xlabel='Order Date'>



In [28]: daily_orders.plot.bar(figsize=(20,10), color='#61D199')

Out[28]: <AxesSubplot:xlabel='Order Date'>



In []: