



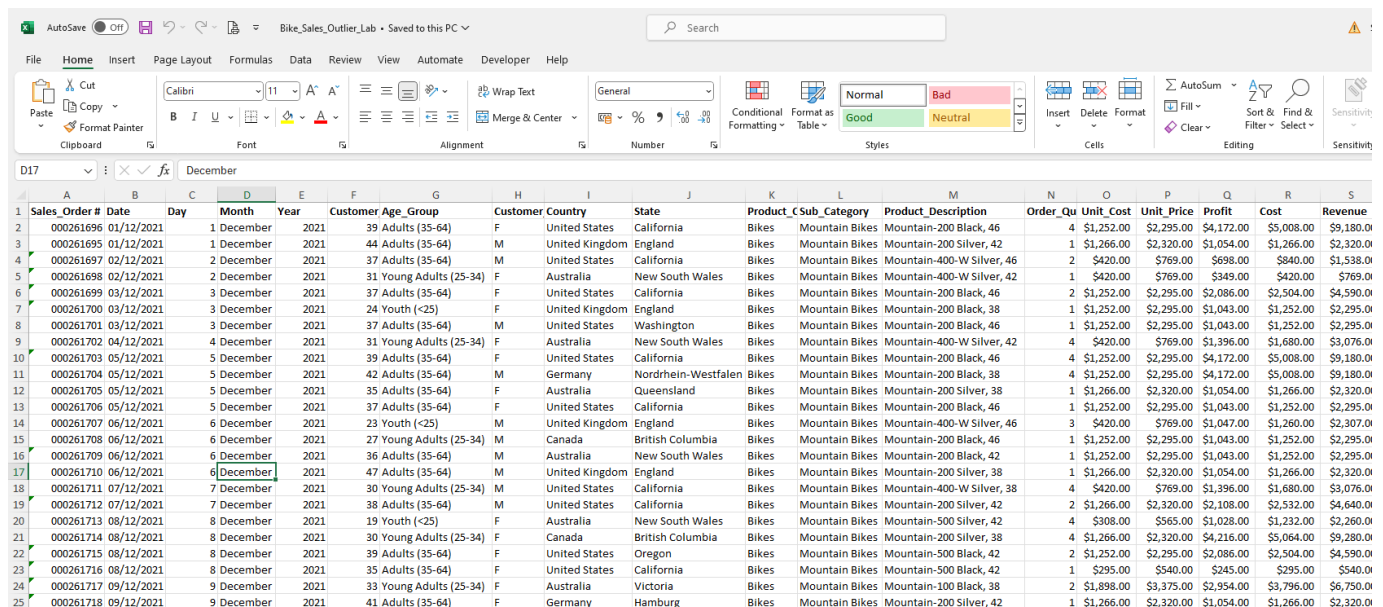
**Hands-on Exercise No. 2 Solution**  
**DigiSkills 2.0 Batch-08**  
**Data Analytics & Business Intelligence**

**Total Marks: 10**

**Tasks:**

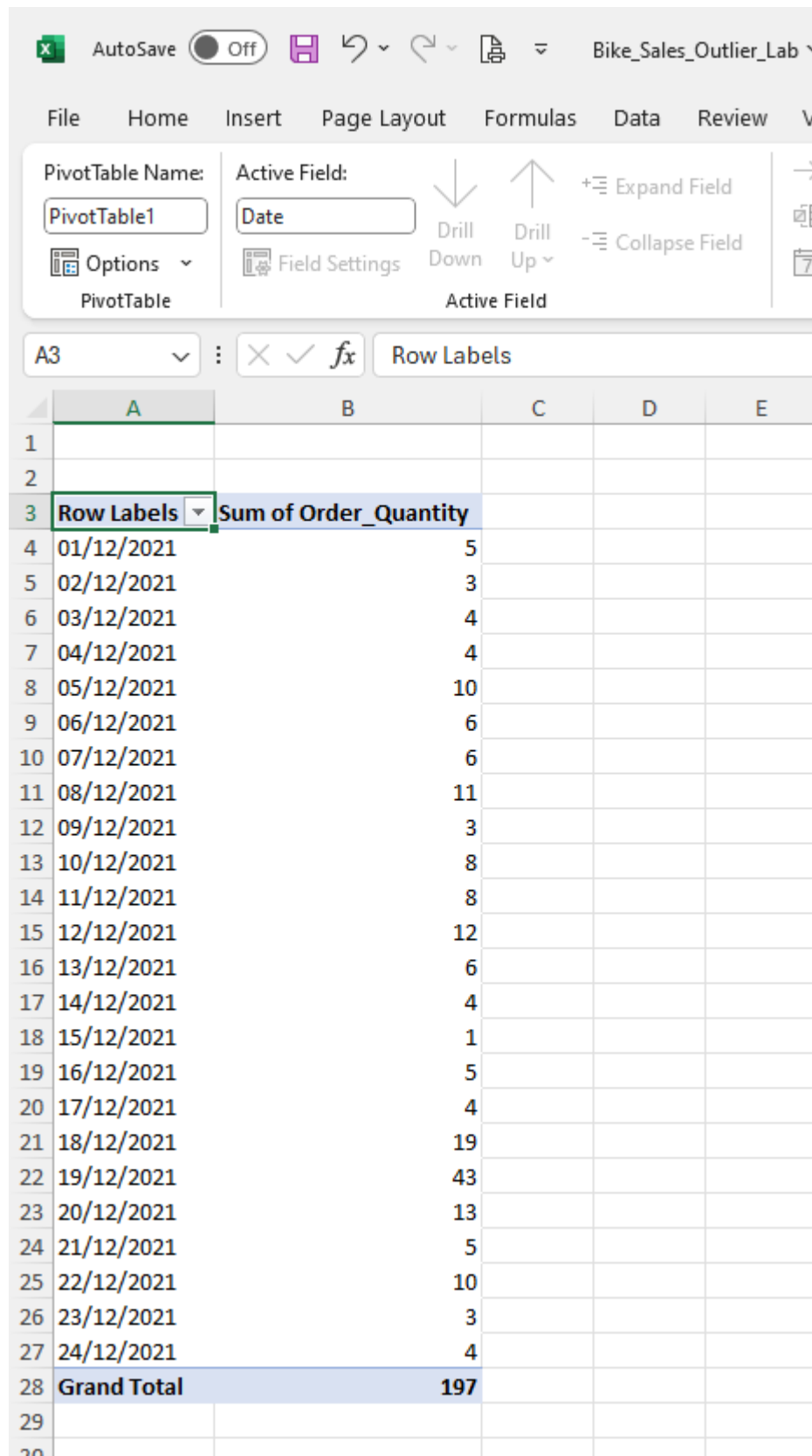
1) Download the dataset from the following link:

[https://lms.digiskills.pk/Courses/DBI101/Downloads/Bike\\_Sales\\_Outlier\\_Lab.xlsx](https://lms.digiskills.pk/Courses/DBI101/Downloads/Bike_Sales_Outlier_Lab.xlsx) and open the downloaded sample.xlsx file Bike\_Sales\_Outliers\_Lab in Microsoft Excel. (Provide the screenshot)



Sales_Order #	Date	Customer Age_Group	Customer Country	State	Product	CSub_Category	Product_Description	Order_Qu	Unit_Cost	Unit_Price	Profit	Cost	Revenue
000261696	01/12/2021	39 Adults (35-64)	United States	California	Bikes	Mountain Bikes	Mountain-200 Black, 46	4	\$1,252.00	\$2,295.00	\$4,172.00	\$5,008.00	\$9,180.00
000261695	01/12/2021	44 Adults (35-64)	United Kingdom	England	Bikes	Mountain Bikes	Mountain-200 Silver, 42	1	\$1,266.00	\$2,320.00	\$1,054.00	\$1,266.00	\$2,320.00
000261697	02/12/2021	37 Adults (35-64)	United States	California	Bikes	Mountain Bikes	Mountain-400-W Silver, 46	2	\$420.00	\$769.00	\$698.00	\$840.00	\$1,538.00
000261698	02/12/2021	31 Young Adults (25-34)	Australia	New South Wales	Bikes	Mountain Bikes	Mountain-400-W Silver, 42	1	\$420.00	\$769.00	\$349.00	\$420.00	\$769.00
000261699	03/12/2021	37 Adults (35-64)	United States	California	Bikes	Mountain Bikes	Mountain-200 Black, 46	2	\$1,252.00	\$2,295.00	\$2,086.00	\$2,504.00	\$4,590.00
000261700	03/12/2021	24 Youth (<25)	United Kingdom	England	Bikes	Mountain Bikes	Mountain-200 Black, 38	1	\$1,252.00	\$2,295.00	\$1,043.00	\$1,252.00	\$2,295.00
000261701	03/12/2021	37 Adults (35-64)	United States	Washington	Bikes	Mountain Bikes	Mountain-200 Black, 46	1	\$1,252.00	\$2,295.00	\$1,043.00	\$1,252.00	\$2,295.00
000261702	04/12/2021	31 Young Adults (25-34)	Australia	New South Wales	Bikes	Mountain Bikes	Mountain-400-W Silver, 42	4	\$420.00	\$769.00	\$1,396.00	\$1,680.00	\$3,076.00
000261703	05/12/2021	39 Adults (35-64)	United States	California	Bikes	Mountain Bikes	Mountain-200 Black, 46	4	\$1,252.00	\$2,295.00	\$4,172.00	\$5,008.00	\$9,180.00
000261704	05/12/2021	42 Adults (35-64)	Germany	Nordrhein-Westfalen	Bikes	Mountain Bikes	Mountain-200 Black, 38	4	\$1,252.00	\$2,295.00	\$4,172.00	\$5,008.00	\$9,180.00
000261705	05/12/2021	35 Adults (35-64)	Australia	Queensland	Bikes	Mountain Bikes	Mountain-200 Silver, 38	1	\$1,266.00	\$2,320.00	\$1,054.00	\$1,266.00	\$2,320.00
000261706	05/12/2021	37 Adults (35-64)	United States	California	Bikes	Mountain Bikes	Mountain-200 Black, 46	1	\$1,252.00	\$2,295.00	\$1,043.00	\$1,252.00	\$2,295.00
000261707	06/12/2021	23 Youth (<25)	United Kingdom	England	Bikes	Mountain Bikes	Mountain-400-W Silver, 46	3	\$420.00	\$769.00	\$1,047.00	\$1,260.00	\$2,307.00
000261708	06/12/2021	27 Young Adults (25-34)	Canada	British Columbia	Bikes	Mountain Bikes	Mountain-200 Black, 46	1	\$1,252.00	\$2,295.00	\$1,043.00	\$1,252.00	\$2,295.00
000261709	06/12/2021	36 Adults (35-64)	Australia	New South Wales	Bikes	Mountain Bikes	Mountain-200 Black, 42	1	\$1,252.00	\$2,295.00	\$1,043.00	\$1,252.00	\$2,295.00
000261710	06/12/2021	47 Adults (35-64)	United Kingdom	England	Bikes	Mountain Bikes	Mountain-200 Silver, 38	1	\$1,266.00	\$2,320.00	\$1,054.00	\$1,266.00	\$2,320.00
000261711	07/12/2021	30 Young Adults (25-34)	United States	California	Bikes	Mountain Bikes	Mountain-400-W Silver, 38	4	\$420.00	\$769.00	\$1,396.00	\$1,680.00	\$3,076.00
000261712	07/12/2021	38 Adults (35-64)	United States	California	Bikes	Mountain Bikes	Mountain-200 Silver, 42	2	\$1,266.00	\$2,320.00	\$2,108.00	\$2,532.00	\$4,640.00
000261713	08/12/2021	19 Youth (<25)	Australia	New South Wales	Bikes	Mountain Bikes	Mountain-500 Silver, 42	4	\$308.00	\$565.00	\$1,028.00	\$1,232.00	\$2,260.00
000261714	08/12/2021	30 Young Adults (25-34)	Canada	British Columbia	Bikes	Mountain Bikes	Mountain-200 Silver, 38	4	\$1,266.00	\$2,320.00	\$4,216.00	\$5,064.00	\$9,280.00
000261715	08/12/2021	39 Adults (35-64)	United States	Oregon	Bikes	Mountain Bikes	Mountain-500 Black, 42	2	\$1,252.00	\$2,295.00	\$2,086.00	\$2,504.00	\$4,590.00
000261716	08/12/2021	35 Adults (35-64)	United States	California	Bikes	Mountain Bikes	Mountain-500 Black, 42	1	\$295.00	\$540.00	\$245.00	\$295.00	\$540.00
000261717	09/12/2021	33 Young Adults (25-34)	Australia	Victoria	Bikes	Mountain Bikes	Mountain-100 Black, 38	2	\$1,898.00	\$3,375.00	\$2,954.00	\$3,796.00	\$6,750.00
000261718	09/12/2021	41 Adults (35-64)	Germany	Hamburg	Bikes	Mountain Bikes	Mountain-200 Silver, 42	1	\$1,266.00	\$2,320.00	\$1,054.00	\$1,266.00	\$2,320.00

2) Create a Pivot table using column **Date** and **Order\_Quantity**. (Provide the screenshot)



PivotTable Name: PivotTable1  
Active Field: Date  
Options: PivotTable  
Field Settings: Drill Down, Drill Up, Expand Field, Collapse Field

	A	B	C	D	E
1					
2					
3	Row Labels	Sum of Order_Quantity			
4	01/12/2021	5			
5	02/12/2021	3			
6	03/12/2021	4			
7	04/12/2021	4			
8	05/12/2021	10			
9	06/12/2021	6			
10	07/12/2021	6			
11	08/12/2021	11			
12	09/12/2021	3			
13	10/12/2021	8			
14	11/12/2021	8			
15	12/12/2021	12			
16	13/12/2021	6			
17	14/12/2021	4			
18	15/12/2021	1			
19	16/12/2021	5			
20	17/12/2021	4			
21	18/12/2021	19			
22	19/12/2021	43			
23	20/12/2021	13			
24	21/12/2021	5			
25	22/12/2021	10			
26	23/12/2021	3			
27	24/12/2021	4			
28	Grand Total	197			
29					
30					

- 3) After creating Pivot table **Sort** the **Sum of Order\_Quantity** column from high to low. (Provide the screenshot)

The screenshot shows the Microsoft Excel interface with the 'Home' tab selected. The PivotTable is located in the range C3:C28. The PivotTable has two columns: 'Row Labels' and 'Sum of Order\_Quantity'. The data is sorted in descending order of the 'Sum of Order\_Quantity' column. The 'Grand Total' row shows a sum of 197.

	A	B	C	D	E
1					
2					
3	Row Labels	Sum of Order_Quantity			
4	19/12/2021		43		
5	18/12/2021		19		
6	20/12/2021		13		
7	12/12/2021		12		
8	08/12/2021		11		
9	05/12/2021		10		
10	22/12/2021		10		
11	11/12/2021		8		
12	10/12/2021		8		
13	07/12/2021		6		
14	06/12/2021		6		
15	13/12/2021		6		
16	21/12/2021		5		
17	01/12/2021		5		
18	16/12/2021		5		
19	04/12/2021		4		
20	24/12/2021		4		
21	17/12/2021		4		
22	03/12/2021		4		
23	14/12/2021		4		
24	02/12/2021		3		
25	23/12/2021		3		
26	09/12/2021		3		
27	15/12/2021		1		
28	Grand Total		197		

4) Using the Pivot table column **Sum of Order Quantity** create a **Scatter chart** to find the outlier.

(Provide the screenshot of Scatter chart and write the number of outlier)

