Hands-on Exercise No. 2(Solution) **DigiSkills 2.0 Batch-07** **Data Analytics & Business Intelligence**	**Total Marks: 10**

Problem Statement

Sorting and filtering the data is a data preprocessing step in data analysis. Sorting and filtering includes grouping and including or excluding specific data. This ensures consistency, accuracy, and better decision-making processes. .

Tasks:

1) Download the dataset from the following link:
https://lms.digiskills.pk/Courses/DBI101/Downloads/Bike_Sales_Sort_Dataset.csv
and open the downloaded sample CSV file Bike Sales_Sort_Dataset.csv in Microsoft Excel 365. (Provide the screenshot)

2) **Freeze the first row** and sort the data **by country and profit column** in **ascending order**. (Provide the screenshot)

3) Convert the given dataset into a table named **BikeSaleTable.** (Provide the screenshot of table name)

4) Filter the BikeSaleTable to only display rows with the age group **"Young Adults (25-34)"** using the drop-down arrows. (Provide screenshot)

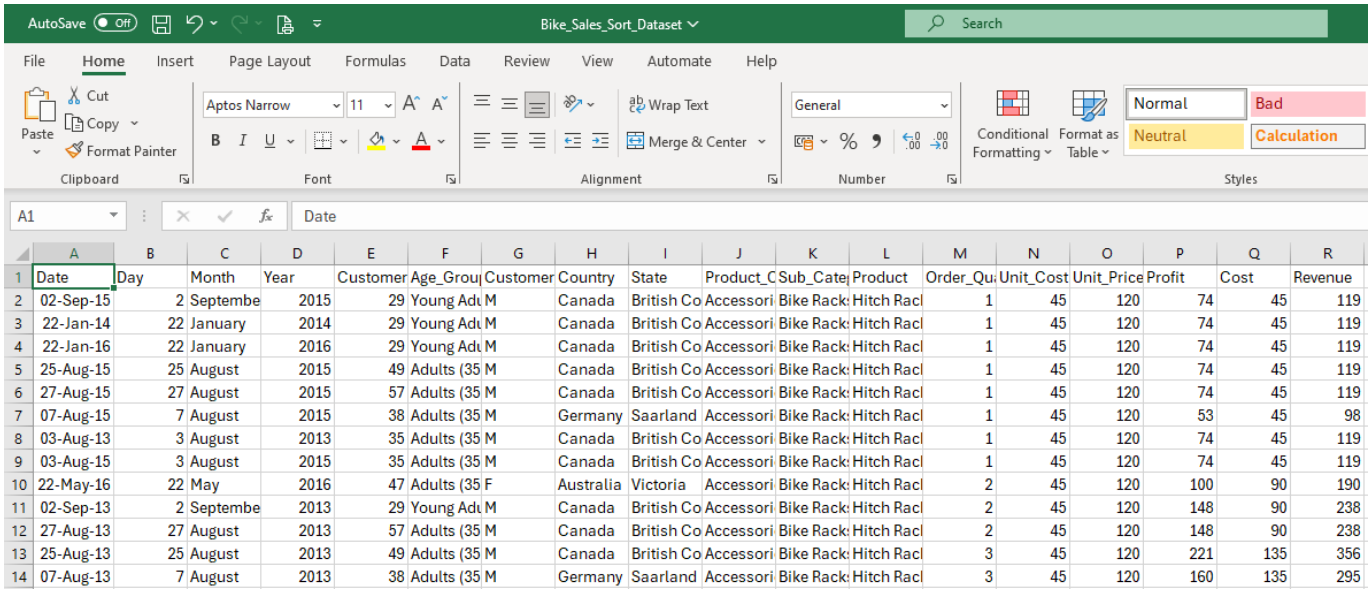
Requirements:

In this exercise you are required to perform all the given tasks and provide

- Screenshots of Task 2, 3 and 4.
- Submit the completed tasks in word document.

BEST OF LUCK ☺

1) Download the dataset from the following link:
https://lms.digiskills.pk/Courses/DBI101/Downloads/Bike_Sales_Sort_Dataset.csv
and open the downloaded sample CSV file Bike Sales_Sort_Dataset.csv in Microsoft Excel 365. (Provide the screenshot)

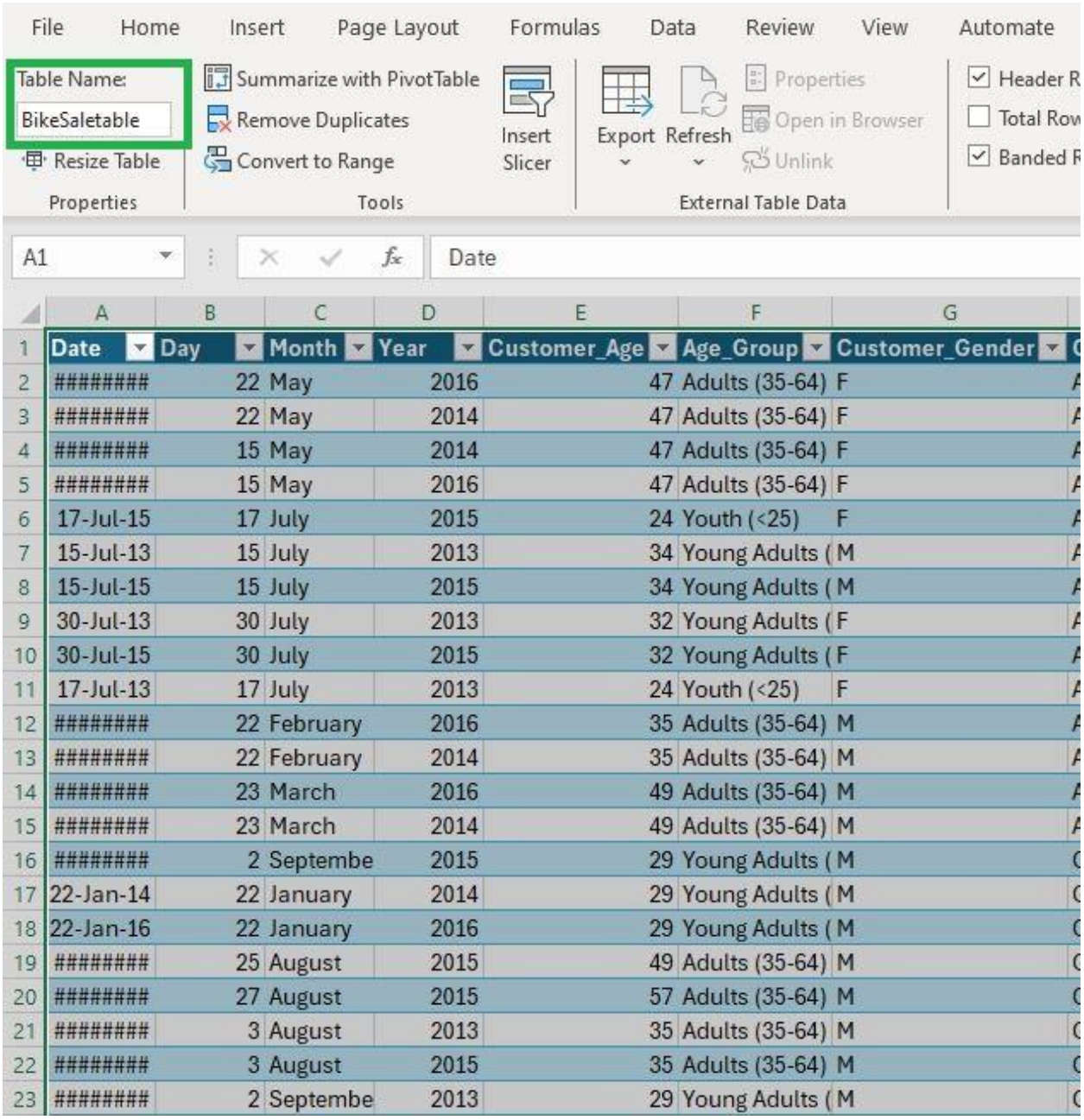


	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	Date	Day	Month	Year	Customer	Age_Grou	Customer	Country	State	Product_C	Sub_Cate	Product	Order_Qu	Unit_Cost	Unit_Price	Profit	Cost	Revenue
2	02-Sep-15	2	Septembe	2015	29	Young Adu	M	Canada	British Co	Accessori	Bike Rack	Hitch Racl	1	45	120	74	45	119
3	22-Jan-14	22	January	2014	29	Young Adu	M	Canada	British Co	Accessori	Bike Rack	Hitch Racl	1	45	120	74	45	119
4	22-Jan-16	22	January	2016	29	Young Adu	M	Canada	British Co	Accessori	Bike Rack	Hitch Racl	1	45	120	74	45	119
5	25-Aug-15	25	August	2015	49	Adults (35	M	Canada	British Co	Accessori	Bike Rack	Hitch Racl	1	45	120	74	45	119
6	27-Aug-15	27	August	2015	57	Adults (35	M	Canada	British Co	Accessori	Bike Rack	Hitch Racl	1	45	120	74	45	119
7	07-Aug-15	7	August	2015	38	Adults (35	M	Germany	Saarland	Accessori	Bike Rack	Hitch Racl	1	45	120	53	45	98
8	03-Aug-13	3	August	2013	35	Adults (35	M	Canada	British Co	Accessori	Bike Rack	Hitch Racl	1	45	120	74	45	119
9	03-Aug-15	3	August	2015	35	Adults (35	M	Canada	British Co	Accessori	Bike Rack	Hitch Racl	1	45	120	74	45	119
10	22-May-16	22	May	2016	47	Adults (35	F	Australia	Victoria	Accessori	Bike Rack	Hitch Racl	2	45	120	100	90	190
11	02-Sep-13	2	Septembe	2013	29	Young Adu	M	Canada	British Co	Accessori	Bike Rack	Hitch Racl	2	45	120	148	90	238
12	27-Aug-13	27	August	2013	57	Adults (35	M	Canada	British Co	Accessori	Bike Rack	Hitch Racl	2	45	120	148	90	238
13	25-Aug-13	25	August	2013	49	Adults (35	M	Canada	British Co	Accessori	Bike Rack	Hitch Racl	3	45	120	221	135	356
14	07-Aug-13	7	August	2013	38	Adults (35	M	Germany	Saarland	Accessori	Bike Rack	Hitch Racl	3	45	120	160	135	295

2) **Freeze the first row** and sort the data **by country and profit column** in **ascending order**. (Provide the screenshot)

	A	B	C	D	E	F	G	H	P	Q	R
1	Date	Day	Month	Year	Custon	Age_Gr	Custon	Country	Profit	Cost	Revenu
2	########	22	May	2016	47	Adults (35	F	Australia	100	90	190
3	########	22	May	2014	47	Adults (35	F	Australia	199	180	379
4	########	15	May	2014	47	Adults (35	F	Australia	238	180	418
5	########	15	May	2016	47	Adults (35	F	Australia	297	225	522
6	17-Jul-15	17	July	2015	24	Youth (<25	F	Australia	335	270	605
7	15-Jul-13	15	July	2013	34	Young Adu	M	Australia	349	315	664
8	15-Jul-15	15	July	2015	34	Young Adu	M	Australia	349	315	664
9	30-Jul-13	30	July	2013	32	Young Adu	F	Australia	398	360	758
10	30-Jul-15	30	July	2015	32	Young Adu	F	Australia	398	360	758
11	17-Jul-13	17	July	2013	24	Youth (<25	F	Australia	502	405	907
12	########	22	February	2016	35	Adults (35	M	Australia	1046	945	1991
13	########	22	February	2014	35	Adults (35	M	Australia	1096	990	2086
14	########	23	March	2016	49	Adults (35	M	Australia	1188	900	2088
15	########	23	March	2014	49	Adults (35	M	Australia	1366	1035	2401

3) Convert the given dataset into a table named **BikeSaleTable.** (Provide the screenshot of table name)



	A	B	C	D	E	F	G
1	Date	Day	Month	Year	Customer_Age	Age_Group	Customer_Gender
2	########	22	May	2016	47	Adults (35-64)	F
3	########	22	May	2014	47	Adults (35-64)	F
4	########	15	May	2014	47	Adults (35-64)	F
5	########	15	May	2016	47	Adults (35-64)	F
6	17-Jul-15	17	July	2015	24	Youth (<25)	F
7	15-Jul-13	15	July	2013	34	Young Adults (	M
8	15-Jul-15	15	July	2015	34	Young Adults (	M
9	30-Jul-13	30	July	2013	32	Young Adults (	F
10	30-Jul-15	30	July	2015	32	Young Adults (	F
11	17-Jul-13	17	July	2013	24	Youth (<25)	F
12	########	22	February	2016	35	Adults (35-64)	M
13	########	22	February	2014	35	Adults (35-64)	M
14	########	23	March	2016	49	Adults (35-64)	M
15	########	23	March	2014	49	Adults (35-64)	M
16	########	2	Septembe	2015	29	Young Adults (	M
17	22-Jan-14	22	January	2014	29	Young Adults (	M
18	22-Jan-16	22	January	2016	29	Young Adults (	M
19	########	25	August	2015	49	Adults (35-64)	M
20	########	27	August	2015	57	Adults (35-64)	M
21	########	3	August	2013	35	Adults (35-64)	M
22	########	3	August	2015	35	Adults (35-64)	M
23	########	2	Septembe	2013	29	Young Adults (	M

4) Filter the BikeSaleTable to only display rows with the age group **"Young Adults (25-34)"** using the drop-down arrows. (Provide screenshot)

F7 | Young Adults (25-34)

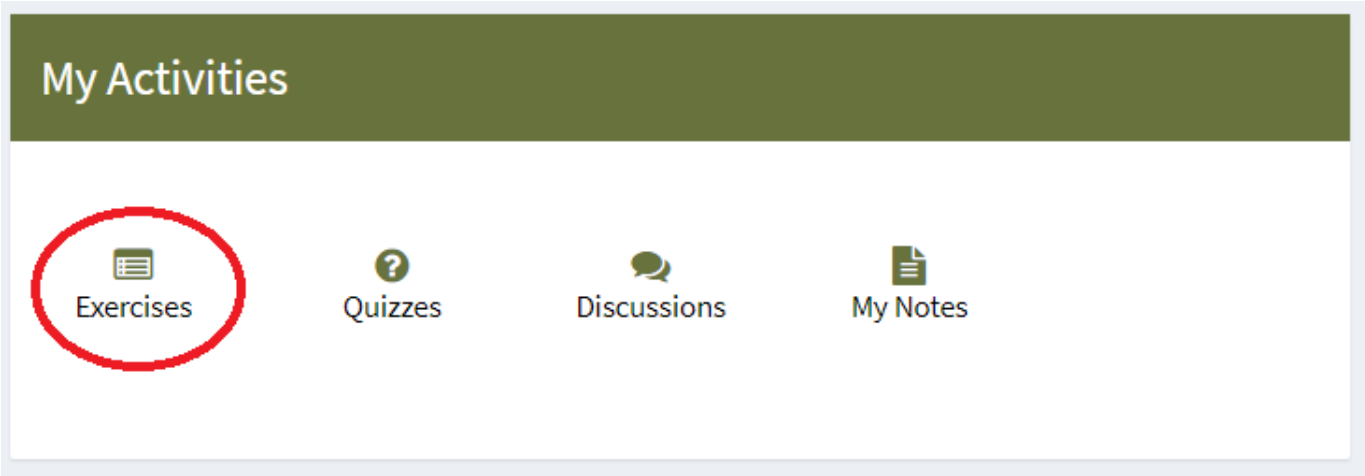
	A	B	C	D	E	F	G
1	Date	Day	Month	Year	Customer_Age	Age_Group	Customer_Gender
7	15-Jul-13	15	July	2013	34	Young Adults (25-34)	M
8	15-Jul-15	15	July	2015	34	Young Adults (25-34)	M
9	30-Jul-13	30	July	2013	32	Young Adults (25-34)	F
10	30-Jul-15	30	July	2015	32	Young Adults (25-34)	F
16	########	2	Septembe	2015	29	Young Adults (25-34)	M
17	22-Jan-14	22	January	2014	29	Young Adults (25-34)	M
18	22-Jan-16	22	January	2016	29	Young Adults (25-34)	M
23	########	2	Septembe	2013	29	Young Adults (25-34)	M
28	########	2	August	2013	29	Young Adults (25-34)	M
30	########	17	May	2014	29	Young Adults (25-34)	M
32	########	2	August	2015	29	Young Adults (25-34)	M
33	########	26	Novembe	2013	26	Young Adults (25-34)	F
36	########	17	May	2016	29	Young Adults (25-34)	M
37	########	26	Novembe	2015	26	Young Adults (25-34)	F
39	########	17	Novembe	2013	29	Young Adults (25-34)	F
40	########	17	Novembe	2015	29	Young Adults (25-34)	F
44	########	11	Novembe	2015	34	Young Adults (25-34)	M
46	########	11	Novembe	2013	34	Young Adults (25-34)	M
47	########	24	Septembe	2015	32	Young Adults (25-34)	M
48	########	24	Septembe	2013	32	Young Adults (25-34)	M
57	########	17	Septembe	2013	29	Young Adults (25-34)	F
58	########	17	Septembe	2015	29	Young Adults (25-34)	F
63	19-Jul-13	19	July	2013	32	Young Adults (25-34)	F
64	19-Jul-15	19	July	2015	32	Young Adults (25-34)	F

How to submit solution file on LMS?

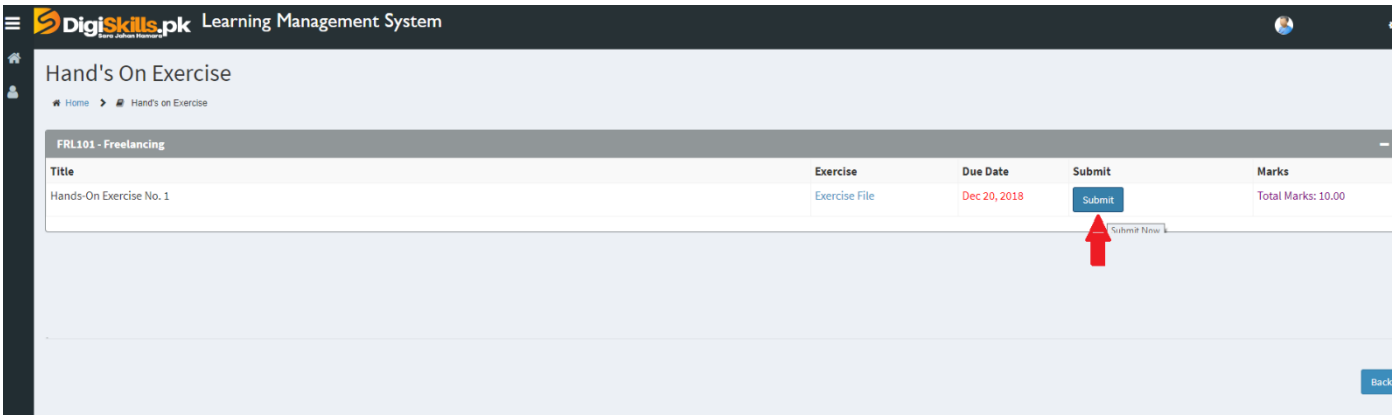
Please perform the following steps for submitting your solution using LMS:

1) Login to the LMS

2) Click on the **Exercises** button within the **My Activities** section



3) Click on the submit button to upload your Solution.



4) Keep in mind to upload your Solution in .doc or .docx format