

**Assignment 02**  
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**ID: platex3\_Ba\_coursemea**

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## Task 1 - Cleaning steps:

8. Sort the column for Customer ID
9. Customer\_IDs were missing so used the formula: `=IF(OR(A2="", A2="NULL"), "TEMP_" & ROW(), A2)` to assign the ids.
10. Copied the values and used paste special to the customer\_IDs column.

2      `=IF(OR(A2="", A2="NULL"), ROW(), A2)`

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Customer	Name	Email	Order_ID	Product	Quantity	Price	Order_Da	Country	Address						
100	Nathan Hernandez	harrisjusti	10497	TABLET	--	999.25	#####	USA	N/A					100	
100	Brittany Wright	wilsonchr	10595	MOBILE	2	eur 436.6	#####	usa	PSC 6264, Box 4886, APO AP 40868					100	
101	Nicholas Grant	kellysandr	10366	Tablet	3	eur 93.82	23-Oct-24	U.S.A						101	
101	Ryan Brown	ellisonsco	10555	TABLET	1	USD 105.8	#####	United Kingdom						101	
101	Rebecca Williamson		10871	mobile	-1	\$314.49	29-Oct-24	United Kir	32579 Crane Cape, Wattsfort, KY 80023					101	
102	Lisa Skinner	johnnycru	10482	MOBILE	999	729.24	#####	canada	N/A					102	
102	April King	kristen88	10730	LAPTOP	--	EUR 202.3	14-Jun-24	U.K.						102	
102	Peter Santiago	travis68	10985	Laptop		606.88	#####	Canada	N/A					102	
103	Melissa Bentley	ryan59@a	10025	TABLET	999	EUR 47.87	#####	UK						103	
103	John Mathews	nhayes@h	10895	Laptop	3	usd 452.2	#####	usa	--					103	
104	Andrew Hall	stephen1	10203	laptop	1	usd 338.4	11/24/202	canada	99062 Kelly Vista Suite 655, Nelsonland, DC 77139					104	
104	Jessica Carney	frazierste	10549	mobile	999	EUR 773.5	#####	canada						104	
104	Ryan Perez	robinsonj	10984	LAPTOP	--	eur 999.25	#####	usa						104	
105	Tammy Young	nicolejoh	10021	MOBILE#		USD 556.1	8/23/2024	U.K.	--					105	
106	Shannon Price	kevin34@	10483	laptop	-1	807.33	#####	canada	--					106	
106	Rayon Hill	malcolm	10875	tablet	1	506.73	#####	USA						106	

11. Used Trim for removing the unnecessary spaces and same case from Name and Product.
12. Used the formula: `=IF(OR(C2="", C2="NULL"), "NULL", C2)`. To replace empty cells with NULL.

`=IF(OR(C2="", C2="NULL"), "NULL", C2)`

	C	D	E	F	G	H	I	J	K	L	M	N	O	P
	Email	Order_ID	Product	Quantity	Price	Order_Da	Country	Address						
	harrisjustin@gmail.com	10497	TABLET	--	999.25	#####	USA	N/A					harrisjustin@gm	
	wilsonchristopher@rangel.com	10595	MOBILE	2	eur 436.6	#####	usa	PSC 6264, Box 4886, APO AP 40868					wilsonchristoph	
	kellysanders@ayala-mitchell.com	10366	Tablet	3	eur 93.82	23-Oct-24	U.S.A						kellysanders@a	
	ellisonscott@bishop-reynolds.com	10555	TABLET	1	USD 105.8	#####	United Kingdom						ellisonscott@bis	
1	NULL	10871	mobile	-1	\$314.49	29-Oct-24	United Kir	32579 Crane Cape, Wattsfort, KY 80023					NULL	
	johnnycruz@mullen.com	10482	MOBILE	999	729.24	#####	canada	N/A					johnnycruz@mu	
	kristen88@gmail.com	10730	LAPTOP	--	EUR 202.3	14-Jun-24	U.K.						kristen88@gmai	
	travis68@williams.com	10985	Laptop		606.88	#####	Canada	N/A					travis68@willian	
	ryan59@alvarado-martinez.com	10025	TABLET	999	EUR 47.87	#####	UK						ryan59@alvarad	
	nhayes@howell-gardner.com	10895	Laptop	3	usd 452.2	#####	usa	--					nhayes@howell	
	stephen19@gmail.com	10203	laptop	1	usd 338.4	11/24/202	canada	99062 Kelly Vista Suite 655, Nelsonland, DC 77139					stephen19@gm	
	fraziersteven@yahoo.com	10549	mobile	999	EUR 773.5	#####	canada						fraziersteven@y	
	robinsonjesse@best.net	10984	LAPTOP	--	eur 999.25	#####	usa						robinsonjesse@	
	nicolejohnson@middleton.com	10021	MOBILE#		USD 556.1	8/23/2024	U.K.	--					nicolejohnson@	

13. Used formula `=ABS(cell)` to make the values in Quantity absolute.

`=ABS(F6)`

	C	D	E	F	G	H	I	J	K	L	M	N	C
	Email	Order_ID	Product	Quantity	Price	Order_Da	Country	Address					
	harrisjustin@gmail.com	10497	Tablet	--	999.25	#####	USA	N/A					
	wilsonchristopher@rangel.com	10595	MOBILE	2	eur 436.6	#####	usa	PSC 6264, Box 4886, APO AP 40868					
	kellysanders@ayala-mitchell.com	10366	Tablet	3	eur 93.82	23-Oct-24	U.S.A						
	ellisonscott@bishop-reynolds.com	10555	TABLET	1	USD 105.8	#####	United Kingdom						
	NULL	10871	mobile	-1	\$314.49	29-Oct-24	United Kir	32579 Crane Cape, Wattsfort, KY 80023				1	
	johnnycruz@mullen.com	10482	MOBILE	999	729.24	#####	canada	N/A					
	kristen88@gmail.com	10730	LAPTOP	--	EUR 202.3	14-Jun-24	U.K.						
	travis68@williams.com	10985	Laptop		606.88	#####	Canada	N/A					
	ryan59@alvarado-martinez.com	10025	TABLET	999	EUR 47.87	#####	UK						
	nhayes@howell-gardner.com	10895	Laptop	3	usd 452.2	#####	usa	--					
	stephen19@gmail.com	10203	laptop	1	usd 338.4	11/24/202	canada	99062 Kelly Vista Suite 655, Nelsonland, DC 77139					

14. To change the currency in Price column. The formula used is :

```
=IF(ISNUMBER(SEARCH("USD", G2)), "$" & TEXT(SUBSTITUTE(SUBSTITUTE(SUBSTITUTE(G2, "USD", ""), "$", ""), ",", ""), "#,##0"), IF(ISNUMBER(SEARCH("EUR", G2))
+ ISNUMBER(SEARCH("€", G2)) + ISNUMBER(SEARCH("â,-", G2)),
"€" & TEXT(SUBSTITUTE(SUBSTITUTE(SUBSTITUTE(SUBSTITUTE(SUBSTITUTE(G2, "EUR", ""),
"â,-", ""), "€", ""), ".", ""), " ", ""), "#,##0"),
IF(ISNUMBER(SEARCH("GBP", G2)),
"£" & TEXT(SUBSTITUTE(SUBSTITUTE(SUBSTITUTE(G2, "GBP", ""), "£", ""), ",", ""), "#,##0"),
"$" & TEXT(SUBSTITUTE(SUBSTITUTE(SUBSTITUTE(SUBSTITUTE(G2, "$", ""), "€", ""), "â,-", ""), "
", ""), "#,##0"))))
```

```
=IF(ISNUMBER(SEARCH("USD", G2)),
"$" & TEXT(SUBSTITUTE(SUBSTITUTE(SUBSTITUTE(G2, "USD", ""), "$", ""), ",", ""), "#,##0"),
IF(ISNUMBER(SEARCH("EUR", G2))
+ ISNUMBER(SEARCH("€", G2))
+ ISNUMBER(SEARCH("â,-", G2)),
"€" & TEXT(SUBSTITUTE(SUBSTITUTE(SUBSTITUTE(SUBSTITUTE(SUBSTITUTE(G2, "EUR", ""), "â,-", ""), "€", ""), ".", ""), " ", ""), "#,##0"),
IF(ISNUMBER(SEARCH("GBP", G2)),
"£" & TEXT(SUBSTITUTE(SUBSTITUTE(SUBSTITUTE(G2, "GBP", ""), "£", ""), ",", ""), "#,##0"),
"$" & TEXT(SUBSTITUTE(SUBSTITUTE(SUBSTITUTE(SUBSTITUTE(G2, "$", ""), "€", ""), "â,-", ""), " ", ""), "#,##0"))))
```

C	D	E	F	G	H	I	J	K	L	M	N	O
Email	Order_ID	Product	Quantity	Price	Order_Date	Country	Address					
harrisjustin@gmail.com	10497	Tablet	0	\$999	27/02/2025	USA	N/A				\$999	
wilsonchristopher@rangel.com	10595	Mobile	0	€eur4366	29/11/2024	usa	PSC 6264, Box 4886, APO AP 40868				€eur4366	
kellysanders@ayala-mitchell.com	10366	Tablet	0	€eur9382	23-Oct-24	U.S.A					€eur9382	
ellisonscott@bishop-reynolds.com	10555	Tablet	0	\$106	30/01/2025	United Kingdom					\$106	
NULL	10871	Mobile	0	\$314	29-Oct-24	United Kir	32579 Crane Cape, Wattsfort, KY 80023				\$314	
johnnycruz@mullen.com	10482	Mobile	0	\$729	12/05/2024	canada	N/A				\$729	
kristen88@gmail.com	10730	Laptop	0	€20,234	14-Jun-24	U.K.					€20,234	
travis68@williams.com	10985	Laptop	0	\$607	08/01/2024	Canada	N/A				\$607	
ryan59@alvarado-martinez.com	10025	Tablet	0	€4,787	24/11/2024	UK					€4,787	
nhayes@howell-gardner.com	10895	Laptop	0	\$usd 452.22	25/02/2025	usa	--				\$usd 452.22	
stephen19@gmail.com	10203	Laptop	0	\$usd 338.42	11/24/2024	canada	99062 Kelly Vista Suite 655, Nelsonland,				\$usd 338.42	
fraziersteven@yahoo.com	10549	Mobile	0	€77,356	28-Nov-24	canada					€77,356	
robinsonjesse@best.net	10984	Laptop	0	€eur99929	13/09/2024	usa					€eur99929	

## Task 2 – Date Formatting

15. To correct the date format. The power query editor was used to AutoDetect the dates that were easy to understand.

Order_ID	Product	Quantity	Price	Order_Date	Country	Address
1	Tablet	0	€9382	23/10/2024	U.S.A	
2	Tablet	0	\$106	30/01/2025	United Kingdom	
3	Laptop	0	€20,234	14/06/2024	U.K.	
4	Tablet	0	€4,787	24/11/2024	UK	
5	Tablet	0	€4,787	24/11/2024	UK	
6	Tablet	0	€4,787	24/11/2024	UK	
7	Tablet	0	€4,787	24/11/2024	UK	
8	Tablet	0	€4,787	24/11/2024	UK	
9	Tablet	0	€4,787	24/11/2024	UK	
10	Tablet	0	€4,787	24/11/2024	UK	
11	Tablet	0	€4,787	24/11/2024	UK	
12	Tablet	0	€4,787	24/11/2024	UK	
13	Tablet	0	€4,787	24/11/2024	UK	
14	Tablet	0	€4,787	24/11/2024	UK	
15	Tablet	0	€4,787	24/11/2024	UK	
16	Tablet	0	€4,787	24/11/2024	UK	

16. After “close & load”. Applied the formula of =IF(H2="", "N/A", H2)

17. Same formula applied for the empty fields of address.

=IF(OR(J2="", J2="--"), "N/A", J2)

C	D	E	F	G	H	I	J	K	L
	Order_ID	Product	Quantity	Price	Order_Date	Country	Address		
nders@ayala-mitchell.com	10366	Tablet	0	€9382	23/10/2024	U.S.A		N/A	
cott@bishop-reynolds.com	10555	Tablet	0	\$106	30/01/2025	United Kingdom			
8@gmail.com	10730	Laptop	0	€20,234	14/06/2024	U.K.			
alvarado-martinez.com	10025	Tablet	0	€4,787	24/11/2024	UK			

## Task 4 – SQL commands

a) Find unique customers. Hint : Use Count Command

18. I used the command “SELECT Name, count(\*) FROM dbo.Sheet2\$

19. GROUP BY Name;”, to show that how many unique customer the table has.

Screenshot:

b) How many mobiles were sold? Hint : Use Where Command

```

SELECT * FROM dbo.Sheet2$;
/*a) Find unique customers
Name: Alic Ambrose
ID: platex3_Ba_coursemea
*/
SELECT DISTINCT Customer_ID, Name FROM dbo.Sheet2$;
SELECT Name, count(*) FROM dbo.Sheet2$
GROUP BY Name;

```

	Name	(No column name)
1		42
2	Aaron Cruz	1
3	Aaron Michael	1
4	Aaron Welch	1
5	Adam Gutierrez	1
6	Adam Ho	1
7	Adam Jordan	1

20. The 'Product' Column has 'Mobile Phones' and 'Mobile' categories. So I used the command:

```
SELECT SUM(Quantity) FROM dbo.Sheet2$  
WHERE Product = 'Mobile Phone' or Product =  
'Mobile';
```

21. The result with WHERE was not accurate.

c) Find also the additional info according to your expertise. (any THREE)

1. I used the WHERE command to find the details of a specific Customer.

22. `SELECT * FROM dbo.Sheet2$`

23. `WHERE Name = 'Lisa Skinner';`

c) Find also the additional info according to your expertise. (any THREE)

```
Name: Alic Ambrose  
ID: platex3_Ba_coursemea
```

```
SELECT * FROM dbo.Sheet2$  
WHERE Name = 'Lisa Skinner';
```

Customer_ID	Name	Email	Order_ID	Product	Quantity	Price	Order_Date	Country	Address
102	Lisa Skinner	johnnycruz@mullen.com	10482	Mobile	0	\$729	2024-05-12 00:00:00.000	canada	N/A

2. I used to the following command to show the products sold to each country:

```
SELECT Country, SUM(Quantity) AS  
Revenue FROM dbo.Sheet2$ GROUP BY  
Country ORDER BY Revenue DESC;
```

```
/*  
b) How many mobiles were sold? Hint : Use Where Command  
Name: Alic Ambrose  
ID: platex3_Ba_coursemea  
*/  
SELECT Product from dbo.Sheet2$;  
SELECT SUM(Quantity) FROM dbo.Sheet2$  
WHERE Product = 'Mobile Phone' or Product = 'Mobile';
```

(No column name)
10

```
/*  
c) Find also the additional info according to your expertise. (any THREE)  
Name: Alic Ambrose  
ID: platex3_Ba_coursemea  
*/  
SELECT Country, SUM(Quantity) AS Revenue  
FROM dbo.Sheet2$  
GROUP BY Country  
ORDER BY Revenue DESC;
```

Country	Revenue
canada	11
U.S.A	8
U.K.	6
United Kingdom	5
UK	4
USA	3
United States	3
NULL	NULL

3. I used the following command to see the max prices of each product:

```
SELECT Product, MAX(Price) AS Share
FROM dbo.Sheet2$
GROUP BY Product
ORDER BY Share DESC;
```

SQLQuery1.sql - DE...ignment02 (sa (54))\*

```
/*
c) Find also the additional info acco
    Name: Alic Ambrose
    ID: platex3_Ba_coursemea
*/
SELECT Product, MAX(Price) AS Share
FROM dbo.Sheet2$
GROUP BY Product
ORDER BY Share DESC;
```

100 %

Results Messages

	Product	Share
1	Laptop	€eur99929
2	Phone	€eur99904
3	Mobile	€eur99431
4	Tablet	€eur98037
5	Mobile Phone	€eur9714
6	Laptop #	€eur95475
7	Mobile#	€eur89082
8	Tablet#	€eur81471
9	Laptop#	€eur53975
10	Phone#	€26,005
11	Mobile Phone #	\$920
12	Mobile Phone#	\$896
13	NULL	NULL