

# Coffee Sales Analysis Using Excel

## Description:

This project involves analyzing coffee sales data using Excel to uncover key insights and trends. The findings will help in identifying top-performing products, peak sales periods, and customer preferences, enabling data-driven business decisions.

## STEP-1: Data Preparation:

### 1.1:

Applying VLOOKUP and INDEX

```
=VLOOKUP(C2, customers!$A$1:$B$1001, 2, FALSE) --applied to each row  
=INDEX(products!$A$1:$G$49, MATCH(orders!$D2, products!$A$1:$A$49,
```

Before:

Order ID	Order Date	Customer ID	Product ID	Quantity	Customer Name	Email	Country	Coffee Type	Roast Type	Size	Unit Price	Sales
QEV-37451-860	05-09-2019	17670-51384-MA	R-M-1	2								
QEV-37451-860	05-09-2019	17670-51384-MA	E-M-0.5	5								
FAA-43335-268	17-06-2021	21125-22134-PX	A-L-1	1								
KAC-83089-793	15-07-2021	23806-46781-OU	E-M-1	2								
KAC-83089-793	15-07-2021	23806-46781-OU	R-L-2.5	2								
CVP-18956-553	04-08-2021	86561-91660-RB	L-D-1	3								
IPP-31994-879	21-01-2022	65223-29612-CB	E-D-0.5	3								
SNZ-65340-705	20-05-2022	21134-81676-FR	L-L-0.2	1								
EZT-46571-659	02-01-2019	03396-68805-ZC	R-M-0.5	3								
NWQ-70061-912	05-09-2019	61021-27840-ZN	R-M-0.5	1								
BKK-47233-845	08-03-2021	76239-90137-UQ	A-D-1	4								
VQR-01002-970	28-10-2020	49315-21985-BB	E-L-2.5	5								
SZW-48378-399	02-07-2022	34136-36674-OM	R-M-1	5								
ITA-87418-783	22-05-2020	39396-12890-PE	R-D-2.5	2								
GNZ-46006-527	05-04-2022	95875-73336-RG	L-D-0.2	3								
FYQ-78248-319	07-06-2022	25473-43727-BY	R-M-2.5	5								
VAU-44387-624	20-03-2019	99643-51048-IQ	A-M-0.2	6								
RDW-33155-159	19-10-2019	62173-15287-CU	A-L-1	6								
TDZ-59011-211	13-06-2019	57611-05522-ST	R-D-2.5	4								
IDU-25793-399	04-12-2020	76664-37050-DT	A-M-0.2	5								
IDU-25793-399	04-12-2020	76664-37050-DT	E-D-0.2	4								
NUO-20013-488	04-12-2020	03090-88267-BQ	A-D-0.2	6								

After:

Order ID	Order Date	Customer ID	Product ID	Quantity	Customer Name	Email	Country	Coffee Type	Roast Type	Size	Unit Price	Sales
QEV-37451-860	05-09-2019	17670-51384-MA	R-M-1	2	Aloisia Allner	aallner0@lulu.com	United States	Rob	M	1	9.95	
QEV-37451-860	05-09-2019	17670-51384-MA	E-M-0.5	5	Aloisia Allner	aallner0@lulu.com	United States	Exc	M	0.5	8.25	
FAA-43335-268	17-06-2021	21125-22134-PX	A-L-1	1	Jami Redholes	jredholes2@tmall.com	United States	Ara	L	1	12.95	
KAC-83089-793	15-07-2021	23806-46781-OU	E-M-1	2	Christoffer O' Shea		Ireland	Exc	M	1	13.75	
KAC-83089-793	15-07-2021	23806-46781-OU	R-L-2.5	2	Christoffer O' Shea		Ireland	Rob	L	2.5	27.485	
CVP-18956-553	04-08-2021	86561-91660-RB	L-D-1	3	Beryle Cottier		United States	Lib	D	1	12.95	
IPP-31994-879	21-01-2022	65223-29612-CB	E-D-0.5	3	Shaylynn Lobe	slobe6@nifty.com	United States	Exc	D	0.5	7.29	
SNZ-65340-705	20-05-2022	21134-81676-FR	L-L-0.2	1	Melvin Wharfe		Ireland	Lib	L	0.2	4.755	
EZT-46571-659	02-01-2019	03396-68805-ZC	R-M-0.5	3	Guthrey Petracci	gpetracci8@livejournal.com	United States	Rob	M	0.5	5.97	
NWQ-70061-912	05-09-2019	61021-27840-ZN	R-M-0.5	1	Rodger Raven	rraven9@ed.gov	United States	Rob	M	0.5	5.97	
BKK-47233-845	08-03-2021	76239-90137-UQ	A-D-1	4	Ferrell Ferber	fferbera@businesswire.com	United States	Ara	D	1	9.95	
VQR-01002-970	28-10-2020	49315-21985-BB	E-L-2.5	5	Duky Phizackerly	dphizackerlyb@utexas.edu	United States	Exc	L	2.5	34.155	
SZW-48378-399	02-07-2022	34136-36674-OM	R-M-1	5	Rosaleen Scholar	rscholarc@nyu.edu	United States	Rob	M	1	9.95	
ITA-87418-783	22-05-2020	39396-12890-PE	R-D-2.5	2	Terence Vanyutin	tvanyutin@wix.com	United States	Rob	D	2.5	20.585	
GNZ-46006-527	05-04-2022	95875-73336-RG	L-D-0.2	3	Patrice Trobe	ptrobe@wunderground.com	United States	Lib	D	0.2	3.885	
FYQ-78248-319	07-06-2022	25473-43727-BY	R-M-2.5	5	Llywellyn Oscroft	loscroft@ebay.co.uk	United States	Rob	M	2.5	22.885	
VAU-44387-624	20-03-2019	99643-51048-IQ	A-M-0.2	6	Minni Alabaster	malabasterg@hexun.com	United States	Ara	M	0.2	3.375	
RDW-33155-159	19-10-2019	62173-15287-CU	A-L-1	6	Rhianon Broxup	rbroxuph@jimdo.com	United States	Ara	L	1	12.95	
TDZ-59011-211	13-06-2019	57611-05522-ST	R-D-2.5	4	Pall Redford	predfordi@ow.ly	Ireland	Rob	D	2.5	20.585	
IDU-25793-399	04-12-2020	76664-37050-DT	A-M-0.2	5	Aurea Corradino	acorradinoj@harvard.edu	United States	Ara	M	0.2	3.375	
IDU-25793-399	04-12-2020	76664-37050-DT	E-D-0.2	4	Aurea Corradino	acorradinoj@harvard.edu	United States	Exc	D	0.2	3.645	
NUO-20013-488	04-12-2020	03090-88267-BQ	A-D-0.2	6	Avrit Davidowsky	adavidowsky@netvibes.com	United States	Ara	D	0.2	2.985	
UQU-65630-479	22-01-2021	37651-47492-NC	R-M-2.5	4	Annabel Antuk	aantukm@kickstarter.com	United States	Rob	M	2.5	22.885	
FE0-11834-332	11-02-2022	95399-57205-HI	A-D-0.2	4	Iorgo Kleintert	ikleintertn@timesonline.co.uk	United States	Ara	D	0.2	2.985	
TKY-71558-096	15-09-2021	24010-66714-HW	A-M-1	1	Chris Blofeld	cblofeldo@amazon.co.uk	United States	Ara	M	1	11.25	
OXY-65322-253	24-10-2020	07591-92789-UA	E-M-0.2	3	Culley Farris		United States	Exc	M	0.2	4.125	
EVP-43500-491	20-02-2019	49231-44455-IC	A-M-0.5	4	Selene Shales	sshalesq@umich.edu	United States	Ara	M	0.5	6.75	
WAG-26945-689	08-10-2019	50124-88608-EO	A-M-0.2	5	Vivie Danneil	vdanneilr@mtv.com	Ireland	Ara	M	0.2	3.375	
CHE-78995-767	02-08-2022	00888-74814-UZ	A-D-0.5	3	Theresita Newbury	tnewburys@usda.gov	Ireland	Ara	D	0.5	5.97	
RYZ-14633-602	20-02-2021	14158-30713-QB	A-D-1	4	Mozelle Calcutt	mcalcutt@baidu.com	Ireland	Ara	D	1	9.95	
WOQ-36015-429	25-09-2021	51427-89175-CJ	L-M-0.2	5	Adrian Swaine		United States	Lib	M	0.2	4.365	
WOQ-36015-429	25-09-2021	51427-89175-CJ	A-D-0.5	6	Adrian Swaine		United States	Ara	D	0.5	5.97	
WOQ-36015-429	25-09-2021	51427-89175-CJ	L-M-0.5	6	Adrian Swaine		United States	Lib	M	0.5	8.73	
SCT-60553-454	17-07-2021	39123-12846-YJ	L-L-0.2	5	Gallard Gatheral	ggatheralx@123-reg.co.uk	United States	Lib	L	0.2	4.755	
GFK-52063-244	29-06-2020	44981-99666-XB	L-L-0.5	6	Una Welberry	uwelberry@ebay.co.uk	United Kingdom	Lib	L	0.5	9.51	
AMM-79521-378	01-06-2021	24825-51803-CQ	A-D-0.5	6	Faber Eilhart	feilhartz@who.int	United States	Ara	D	0.5	5.97	
QUO-90580-772	06-02-2021	77634-13918-GJ	L-M-0.2	2	Zorina Ponting	zponting10@altavista.org	United States	Lib	M	0.2	4.365	

## 1.2:

Calculating Sales using Quantity and Unit Price

=L2\*E2 --quantity\*unit price

Before:

Order ID	Order Date	Customer ID	Product ID	Quantity	Customer Name	Email	Country	Coffee Type	Roast Type	Size	Unit Price	Sales
QEV-37451-860	05-09-2019	17670-51384-MA	R-M-1	2	Aloisia Allner	aallner0@lulu.com	United States	Rob	M	1	9.95	
QEV-37451-860	05-09-2019	17670-51384-MA	E-M-0.5	5	Aloisia Allner	aallner0@lulu.com	United States	Exc	M	0.5	8.25	
FAA-43335-268	17-06-2021	21125-22134-PX	A-L-1	1	Jami Redholes	jredholes2@tmall.com	United States	Ara	L	1	12.95	
KAC-83089-793	15-07-2021	23806-46781-OU	E-M-1	2	Christoffer O' Shea		Ireland	Exc	M	1	13.75	
KAC-83089-793	15-07-2021	23806-46781-OU	R-L-2.5	2	Christoffer O' Shea		Ireland	Rob	L	2.5	27.485	
CVP-18956-553	04-08-2021	86561-91660-RB	L-D-1	3	Beryle Cottier		United States	Lib	D	1	12.95	
IPP-31994-879	21-01-2022	65223-29612-CB	E-D-0.5	3	Shaylynn Lobe	slobe6@nifty.com	United States	Exc	D	0.5	7.29	
SNZ-65340-705	20-05-2022	21134-81676-FR	L-L-0.2	1	Melvin Wharfe		Ireland	Lib	L	0.2	4.755	
EZT-46571-659	02-01-2019	03396-68805-ZC	R-M-0.5	3	Guthrey Petracci	gpetracci@livejournal.com	United States	Rob	M	0.5	5.97	
NWQ-70061-912	05-09-2019	61021-27840-ZN	R-M-0.5	1	Rodger Raven	rraven9@ed.gov	United States	Rob	M	0.5	5.97	
BKK-47233-845	08-03-2021	76239-90137-UQ	A-D-1	4	Ferrell Ferber	fferbera@businesswire.com	United States	Ara	D	1	9.95	
VQR-01002-970	28-10-2020	49315-21985-BB	E-L-2.5	5	Duky Phizackerly	dphizackerlyb@utexas.edu	United States	Exc	L	2.5	34.155	
SZW-48378-399	02-07-2022	34136-36674-OM	R-M-1	5	Rosaleen Scholar	rscholarc@nyu.edu	United States	Rob	M	1	9.95	
ITA-87418-783	22-05-2020	39396-12890-PE	R-D-2.5	2	Terence Vanyutin	tvanyutin@wix.com	United States	Rob	D	2.5	20.585	
GNZ-46006-527	05-04-2022	95875-73336-RG	L-D-0.2	3	Patrice Trobe	ptrobe@wunderground.com	United States	Lib	D	0.2	3.885	
FYQ-78248-319	07-06-2022	25473-43727-BY	R-M-2.5	5	Ulywellyn Osocroft	loscroftf@ebay.co.uk	United States	Rob	M	2.5	22.885	
VAU-44387-624	20-03-2019	99643-51048-IQ	A-M-0.2	6	Minni Alabaster	malabasterg@hexun.com	United States	Ara	M	0.2	3.375	
RDW-33155-159	19-10-2019	62173-15287-CU	A-L-1	6	Rhianon Broxup	rbroxuph@jimdo.com	United States	Ara	L	1	12.95	
TDZ-59011-211	13-06-2019	57611-05522-ST	R-D-2.5	4	Pall Redford	predfordi@ow.ly	Ireland	Rob	D	2.5	20.585	
IDU-25793-399	04-12-2020	76664-37050-DT	A-M-0.2	5	Aurea Corradino	acorradinoj@harvard.edu	United States	Ara	M	0.2	3.375	
IDU-25793-399	04-12-2020	76664-37050-DT	E-D-0.2	4	Aurea Corradino	acorradinoj@harvard.edu	United States	Exc	D	0.2	3.645	
NUO-20013-488	04-12-2020	03090-88267-BQ	A-D-0.2	6	Avrit Davidowsky	adavidowskyl@netvibes.com	United States	Ara	D	0.2	2.985	
UQU-65630-479	22-01-2021	37651-47492-NC	R-M-2.5	4	Annabel Antuk	aanukm@kickstarter.com	United States	Rob	M	2.5	22.885	
FEO-11834-332	11-02-2022	95399-57205-HI	A-D-0.2	4	Iorgo Kleinert	ikleinertn@timesonline.co.uk	United States	Ara	D	0.2	2.985	
TKY-71558-096	15-09-2021	24010-66714-HW	A-M-1	1	Chrisy Blofeld	cblofeldo@amazon.co.uk	United States	Ara	M	1	11.25	
OXY-65322-253	24-10-2020	07591-92789-UA	E-M-0.2	3	Culley Farris		United States	Exc	M	0.2	4.125	
EVP-43500-491	20-02-2019	49231-44455-IC	A-M-0.5	4	Selene Shales	sshalesq@umich.edu	United States	Ara	M	0.5	6.75	
WAG-26945-689	08-10-2019	50124-88608-EO	A-M-0.2	5	Vivie Danneil	vdanneilr@mtv.com	Ireland	Ara	M	0.2	3.375	
CHE-78995-767	02-08-2022	00888-74814-UZ	A-D-0.5	3	Theresita Newbury	tnewburys@usda.gov	Ireland	Ara	D	0.5	5.97	
RYZ-14633-602	20-02-2019	14158-30713-OB	A-D-1	4	Mozelle Calcutt	mcalcuttt@baidu.com	Ireland	Ara	D	1	9.95	
WOQ-36015-429	25-09-2021	51427-89175-QJ	L-M-0.2	5	Adrian Swaine		United States	Lib	M	0.2	4.365	
WOQ-36015-429	25-09-2021	51427-89175-QJ	A-D-0.5	6	Adrian Swaine		United States	Ara	D	0.5	5.97	
WOQ-36015-429	25-09-2021	51427-89175-QJ	L-M-0.5	6	Adrian Swaine		United States	Lib	M	0.5	8.73	
SCT-60553-454	17-07-2021	39123-12846-YJ	L-L-0.2	5	Gallard Gatheral	ggatheralx@123-reg.co.uk	United States	Lib	L	0.2	4.755	
GFK-52063-244	29-06-2020	44981-99666-XB	L-L-0.5	6	Una Welberry	uwelberry@ebay.co.uk	United Kingdom	Lib	L	0.5	9.51	
AMM-79521-378	01-06-2021	24825-51803-CQ	A-D-0.5	6	Faber Eilhart	feilhartz@who.int	United States	Ara	D	0.5	5.97	
QUQ-90580-772	06-02-2021	77634-13918-GJ	L-M-0.2	2	Zorina Ponting	zponting10@altervista.org	United States	Lib	M	0.2	4.365	

After:

Order ID	Order Date	Customer ID	Product ID	Quantity	Customer Name	Email	Country	Coffee Type	Roast Type	Size	Unit Price	Sales
QEV-37451-860	05-09-2019	17670-51384-MA	R-M-1	2	Aloisia Allner	aallner@lulu.com	United States	Rob	M	1	9.95	19.9
QEV-37451-860	05-09-2019	17670-51384-MA	E-M-0.5	5	Aloisia Allner	aallner@lulu.com	United States	Exc	M	0.5	8.25	41.25
FAA-43335-268	17-06-2021	21125-22134-PX	A-L-1	1	Jami Redholes	jredholes2@gmail.com	United States	Ara	L	1	12.95	12.95
KAC-83089-793	15-07-2021	23806-46781-OU	E-M-1	2	Christoffer O' Shea		Ireland	Exc	M	1	13.75	27.5
KAC-83089-793	15-07-2021	23806-46781-OU	R-L-2.5	2	Christoffer O' Shea		Ireland	Rob	L	2.5	27.485	54.97
CVP-18956-553	04-08-2021	86561-91660-RB	L-D-1	3	Beryle Cottier		United States	Lib	D	1	12.95	38.85
IPP-31994-879	21-01-2022	65223-29612-CB	E-D-0.5	3	Shaylynn Lobe	slobe6@nifty.com	United States	Exc	D	0.5	7.29	21.87
SNZ-65340-705	20-05-2022	21134-81676-FR	L-L-0.2	1	Melvin Wharfe		Ireland	Lib	L	0.2	4.755	4.755
EZT-46571-659	02-01-2019	03396-68805-ZC	R-M-0.5	3	Guthrey Petracci	gpetracci@livejournal.com	United States	Rob	M	0.5	5.97	17.91
NWQ-70061-912	05-09-2019	61021-27840-ZN	R-M-0.5	1	Rodger Raven	rraven9@ed.gov	United States	Rob	M	0.5	5.97	5.97
BKK-47233-845	08-03-2021	76239-90137-UQ	A-D-1	4	Ferrell Ferber	fferbera@businesswire.com	United States	Ara	D	1	9.95	39.8
VQR-01002-970	28-10-2020	49315-21985-BB	E-L-2.5	5	Duky Phizackerly	dphizackerlyb@utexas.edu	United States	Exc	L	2.5	34.155	170.775
SZW-48378-399	02-07-2022	34136-36674-OM	R-M-1	5	Rosaleen Scholar	rscholarc@nyu.edu	United States	Rob	M	1	9.95	49.75
ITA-87418-783	22-05-2020	39396-12890-PE	R-D-2.5	2	Terence Vanyutin	tvanyutind@wix.com	United States	Rob	D	2.5	20.585	41.17
GNZ-46006-527	05-04-2022	95875-73336-RG	L-D-0.2	3	Patrice Trobe	ptrobee@wunderground.com	United States	Lib	D	0.2	3.885	11.655
FYQ-78248-319	07-06-2022	25473-43727-BY	R-M-2.5	5	Llywellyn Oscroft	loscrofft@ebay.co.uk	United States	Rob	M	2.5	22.885	114.425
VAU-44387-624	20-03-2019	99643-51048-IQ	A-M-0.2	6	Minni Alabaster	malabasterg@hexun.com	United States	Ara	M	0.2	3.375	20.25
RDW-33155-159	19-10-2019	62173-15287-CU	A-L-1	6	Rhianon Broxup	rbroxuph@jindo.com	United States	Ara	L	1	12.95	77.7
TDZ-59011-211	13-06-2019	57611-05522-ST	R-D-2.5	4	Pall Redford	predfordi@ow.ly	Ireland	Rob	D	2.5	20.585	82.34
IDU-25793-399	04-12-2020	76664-37050-DT	A-M-0.2	5	Aurea Corradino	acorradinoj@harvard.edu	United States	Ara	M	0.2	3.375	16.875
IDU-25793-399	04-12-2020	76664-37050-DT	E-D-0.2	4	Aurea Corradino	acorradinoj@harvard.edu	United States	Exc	D	0.2	3.645	14.58
NUO-20013-488	04-12-2020	03090-86267-BQ	A-D-0.2	6	Avrit Davidowsky	adavidowskyl@netvibes.com	United States	Ara	D	0.2	2.985	17.91
UQU-65630-479	22-01-2021	37651-47492-NC	R-M-2.5	4	Annabel Antuk	aantukm@kickstarter.com	United States	Rob	M	2.5	22.885	91.54
FEU-11834-332	11-02-2022	95399-57205-HI	A-D-0.2	4	Iorgo Kleiner	ikleinernt@timesonline.co.uk	United States	Ara	D	0.2	2.985	11.94
TKY-71558-096	15-09-2021	24010-66714-HW	A-M-1	1	Chris Blofeld	cblofeldo@amazon.co.uk	United States	Ara	M	1	11.25	11.25
OXY-65322-253	24-10-2020	07591-92789-UA	E-M-0.2	3	Culley Farris		United States	Exc	M	0.2	4.125	12.375
EVP-43500-491	20-02-2019	49231-44455-IC	A-M-0.5	4	Selene Shales	sshalesq@umich.edu	United States	Ara	M	0.5	6.75	27
WAG-26945-689	08-10-2019	50124-88608-EO	A-M-0.2	5	Vivie Danneil	vdanneilr@mtv.com	Ireland	Ara	M	0.2	3.375	16.875
CHE-78995-767	02-08-2022	00888-74814-UZ	A-D-0.5	3	Theresita Newbury	tnewburys@usda.gov	Ireland	Ara	D	0.5	5.97	17.91
RYZ-14633-602	20-02-2019	14158-30713-OB	A-D-1	4	Mozelle Calcutt	mcalcutt@baidu.com	Ireland	Ara	D	1	9.95	39.8
WOQ-36015-429	25-09-2021	51427-89175-QJ	L-M-0.2	5	Adrian Swaine		United States	Lib	M	0.2	4.365	21.825
WOQ-36015-429	25-09-2021	51427-89175-QJ	A-D-0.5	6	Adrian Swaine		United States	Ara	D	0.5	5.97	35.82
WOQ-36015-429	25-09-2021	51427-89175-QJ	L-M-0.5	6	Adrian Swaine		United States	Lib	M	0.5	8.73	52.38
SCT-60553-454	17-07-2021	39123-12846-YJ	L-L-0.2	5	Gallard Gatheral	ggatheralx@123-reg.co.uk	United States	Lib	L	0.2	4.755	23.775
GFK-52063-244	29-06-2020	44981-99666-XB	L-L-0.5	6	Una Welberry	uwelberry@ebay.co.uk	United Kingdom	Lib	L	0.5	9.51	57.06
AMM-79521-378	01-06-2021	24825-51803-CQ	A-D-0.5	6	Faber Eilhart	feilhartz@who.int	United States	Ara	D	0.5	5.97	35.82
QUQ-90580-772	06-02-2021	77634-13918-GJ	L-M-0.2	2	Zorina Ponting	zponting10@altervista.org	United States	Lib	M	0.2	4.365	8.73

## 1.3:

Adding full Coffee type name and Roast Type Name for better understanding

```
=IF(I2="Rob", "Robusta", IF(I2="Exc", "Executive", IF(I2="Ara", "Arabic", "")))
=IF(J2="M", "Medium", IF(J2="L", "Light", IF(J2="D", "Dark", "")))
```

Before:

Customer ID	Product ID	Quantity	Customer Name	Email	Country	Coffee Type	Roast Type	Size	Unit Price	Sales	
17670-51384-MA	R-M-1	2	Aloisia Allner	aallner0@lulu.com	United States	Rob	M	1	9.95	19.9	
17670-51384-MA	E-M-0.5	5	Aloisia Allner	aallner0@lulu.com	United States	Exc	M	0.5	8.25	41.25	
21125-22134-PX	A-L-1	1	Jami Redholes	jredholes2@tmail.com	United States	Ara	L	1	12.95	12.95	
23806-46781-OU	E-M-1	2	Christoffer O' Shea		Ireland	Exc	M	1	13.75	27.5	
23806-46781-OU	R-L-2.5	2	Christoffer O' Shea		Ireland	Rob	L	2.5	27.485	54.97	
86561-91660-RB	L-D-1	3	Beryle Cottier		United States	Lib	D	1	12.95	38.85	
65223-29612-CB	E-D-0.5	3	Shaylynn Lobe	slobe6@nifty.com	United States	Exc	D	0.5	7.29	21.87	
21134-81676-FR	L-L-0.2	1	Melvin Wharfe		Ireland	Lib	L	0.2	4.755	4.755	
03396-68805-ZC	R-M-0.5	3	Guthrey Petracci	gpetracci8@livejournal.com	United States	Rob	M	0.5	5.97	17.91	
61021-27840-ZN	R-M-0.5	1	Rodger Raven	rraven9@ed.gov	United States	Rob	M	0.5	5.97	5.97	
76239-90137-UQ	A-D-1	4	Ferrell Ferber	fferbera@businesswire.com	United States	Ara	D	1	9.95	39.8	
49315-21985-BB	E-L-2.5	5	Duky Phizackerly	dphizackerlyb@utexas.edu	United States	Exc	L	2.5	34.155	170.775	
34136-36674-OM	R-M-1	5	Rosaleen Scholar	rscholarc@nyu.edu	United States	Rob	M	1	9.95	49.75	
39396-12890-PE	R-D-2.5	2	Terence Vanyutin	tvanyutind@wix.com	United States	Rob	D	2.5	20.585	41.17	
95875-73336-RG	L-D-0.2	3	Patrice Trobe	ptrobee@wunderground.com	United States	Lib	D	0.2	3.885	11.655	
25473-43727-BY	R-M-2.5	5	Llywellyn Oscroft	loscroftf@ebay.co.uk	United States	Rob	M	2.5	22.885	114.425	
99643-51048-IQ	A-M-0.2	6	Minni Alabaster	malabasterg@hexun.com	United States	Ara	M	0.2	3.375	20.25	
62173-15287-CU	A-L-1	6	Rhianon Broxup	rbroxuph@jimd.com	United States	Ara	L	1	12.95	77.7	
57611-05522-ST	R-D-2.5	4	Pall Redford	predfordi@ow.ly	Ireland	Rob	D	2.5	20.585	82.34	
76664-37050-DT	A-M-0.2	5	Aurea Corradino	acorradiho@harvard.edu	United States	Ara	M	0.2	3.375	16.875	
76664-37050-DT	E-D-0.2	4	Aurea Corradino	acorradiho@harvard.edu	United States	Exc	D	0.2	3.645	14.58	
03090-88267-BQ	A-D-0.2	6	Avrit Davidowsky	adavidowskyl@netvibes.com	United States	Ara	D	0.2	2.985	17.91	
37651-47492-NC	R-M-2.5	4	Annabel Antuk	aantukm@kickstarter.com	United States	Rob	M	2.5	22.885	91.54	
95399-57205-HI	A-D-0.2	4	Iorgo Kleinert	ikleinertn@timesonline.co.uk	United States	Ara	D	0.2	2.985	11.94	
24010-66714-HW	A-M-1	1	Chrisy Blofeld	cblofeldo@amazon.co.uk	United States	Ara	M	1	11.25	11.25	
07591-92789-UA	E-M-0.2	3	Culley Farris		United States	Exc	M	0.2	4.125	12.375	
49231-44455-IC	A-M-0.5	4	Selene Shales	sshalesq@umich.edu	United States	Ara	M	0.5	6.75	27	
50124-88608-EO	A-M-0.2	5	Vivie Danneil	vdanneilr@mtv.com	Ireland	Ara	M	0.2	3.375	16.875	
00888-74814-UZ	A-D-0.5	3	Theresita Newbury	tnewburys@usda.gov	Ireland	Ara	D	0.5	5.97	17.91	
14158-30713-OB	A-D-1	4	Mozelle Calcutt	mcalcuttt@baidu.com	Ireland	Ara	D	1	9.95	39.8	
51427-89175-QJ	L-M-0.2	5	Adrian Swaine		United States	Lib	M	0.2	4.365	21.825	
51427-89175-QJ	A-D-0.5	6	Adrian Swaine		United States	Ara	D	0.5	5.97	35.82	
51427-89175-QJ	L-M-0.5	6	Adrian Swaine		United States	Lib	M	0.5	8.73	52.38	
39123-12846-YJ	L-L-0.2	5	Gallard Gatheral	ggatheralx@123-reg.co.uk	United States	Lib	L	0.2	4.755	23.775	
44981-99666-XB	L-L-0.5	6	Una Welberry	uwelberryy@ebay.co.uk	United Kingdom	Lib	L	0.5	9.51	57.06	
24825-51803-CQ	A-D-0.5	6	Faber Ellhart	feilhartz@who.int	United States	Ara	D	0.5	5.97	35.82	
77634-13918-GJ	L-M-0.2	2	Zorina Ponting	zponting10@altervista.org	United States	Lib	M	0.2	4.365	8.73	

After:

Order ID	Order Date	Customer ID	Product ID	Quantity	Customer Name	Email	Country	Coffee Type	Roast Type	Size	Unit Price	Sales	Coffee Type Name	Roast Type Name
QEV-37451-860	05-09-2019	17670-51384-MA	R-M-1	2	Aloisia Allner	aallner0@lulu.com	United States	Rob	M	1	9.95	19.9	Robusta	Medium
QEV-37451-860	05-09-2019	17670-51384-MA	E-M-0.5	5	Aloisia Allner	aallner0@lulu.com	United States	Exc	M	0.5	8.25	41.25	Excelsa	Medium
FAA-43335-268	17-06-2021	21125-22134-PX	A-L-1	1	Jami Redholes	jredholes2@tmail.com	United States	Ara	L	1	12.95	12.95	Arabica	Light
KAC-83089-793	15-07-2021	23806-46781-OU	E-M-1	2	Christoffer O' Shea		Ireland	Exc	M	1	13.75	27.5	Excelsa	Medium
KAC-83089-793	15-07-2021	23806-46781-OU	R-L-2.5	2	Christoffer O' Shea		Ireland	Rob	L	2.5	27.485	54.97	Robusta	Light
CVP-18956-553	04-08-2021	86561-91660-RB	L-D-1	3	Beryle Cottier		United States	Lib	D	1	12.95	38.85	Liberica	Dark
IPP-31994-879	21-01-2022	65223-29612-CB	E-D-0.5	3	Shaylynn Lobe	slobe6@nifty.com	United States	Exc	D	0.5	7.29	21.87	Excelsa	Dark
SNZ-65340-705	20-05-2022	21134-81676-FR	L-L-0.2	1	Melvin Wharfe		Ireland	Lib	L	0.2	4.755	4.755	Liberica	Light
EZT-46571-659	02-01-2019	03396-68805-ZC	R-M-0.5	3	Guthrey Petracci	gpetracci8@livejournal.com	United States	Rob	M	0.5	5.97	17.91	Robusta	Medium
NWQ-70061-912	05-09-2019	61021-27840-ZN	R-M-0.5	1	Rodger Raven	rraven9@ed.gov	United States	Rob	M	0.5	5.97	5.97	Robusta	Medium
BKK-47233-845	08-03-2021	76239-90137-UQ	A-D-1	4	Ferrell Ferber	fferbera@businesswire.com	United States	Ara	D	1	9.95	39.8	Arabica	Dark
VQR-01002-970	28-10-2020	49315-21985-BB	E-L-2.5	5	Duky Phizackerly	dphizackerlyb@utexas.edu	United States	Exc	L	2.5	34.155	170.775	Excelsa	Light
SZW-48378-399	02-07-2022	34136-36674-OM	R-M-1	5	Rosaleen Scholar	rscholarc@nyu.edu	United States	Rob	M	1	9.95	49.75	Robusta	Medium
ITA-87418-783	22-05-2020	39396-12890-PE	R-D-2.5	2	Terence Vanyutin	tvanyutind@wix.com	United States	Rob	D	2.5	20.585	41.17	Robusta	Dark
GNZ-46006-527	05-04-2022	95875-73336-RG	L-D-0.2	3	Patrice Trobe	ptrobee@wunderground.com	United States	Lib	D	0.2	3.885	11.655	Liberica	Dark
FYO-78249-319	07-06-2022	25473-43727-BY	R-M-2.5	5	Llywellyn Oscroft	loscroftf@ebay.co.uk	United States	Rob	M	2.5	22.885	114.425	Robusta	Medium
VALU-44387-624	20-03-2019	99643-51048-IQ	A-M-0.2	6	Minni Alabaster	malabasterg@hexun.com	United States	Ara	M	0.2	3.375	20.25	Arabica	Medium
RDW-33155-159	19-10-2019	62173-15287-CU	A-L-1	6	Rhianon Broxup	rbroxuph@jimd.com	United States	Ara	L	1	12.95	77.7	Arabica	Light
TDZ-59011-211	13-06-2019	57611-05522-ST	R-D-2.5	4	Pall Redford	predfordi@ow.ly	Ireland	Rob	D	2.5	20.585	82.34	Robusta	Dark
IDU-25793-399	04-12-2020	76664-37050-DT	A-M-0.2	5	Aurea Corradino	acorradiho@harvard.edu	United States	Ara	M	0.2	3.375	16.875	Arabica	Medium
IDU-25793-399	04-12-2020	76664-37050-DT	E-D-0.2	4	Aurea Corradino	acorradiho@harvard.edu	United States	Exc	D	0.2	3.645	14.58	Excelsa	Dark
NUO-20013-488	04-12-2020	03090-88267-BQ	A-D-0.2	6	Avrit Davidowsky	adavidowskyl@netvibes.com	United States	Ara	D	0.2	2.985	17.91	Arabica	Dark
UQU-65630-479	22-01-2021	37651-47492-NC	R-M-2.5	4	Annabel Antuk	aantukm@kickstarter.com	United States	Rob	M	2.5	22.885	91.54	Robusta	Medium
FEO-11834-332	11-02-2022	95399-57205-HI	A-D-0.2	4	Iorgo Kleinert	ikleinertn@timesonline.co.uk	United States	Ara	D	0.2	2.985	11.94	Arabica	Dark
TKY-71558-096	15-09-2021	24010-66714-HW	A-M-1	1	Chrisy Blofeld	cblofeldo@amazon.co.uk	United States	Ara	M	1	11.25	11.25	Arabica	Dark
OXY-65322-253	24-10-2020	07591-92789-UA	E-M-0.2	3	Culley Farris		United States	Exc	M	0.2	4.125	12.375	Excelsa	Medium
EVP-43500-491	20-02-2019	49231-44455-IC	A-M-0.5	4	Selene Shales	sshalesq@umich.edu	United States	Ara	M	0.5	6.75	27	Arabica	Medium
WAG-26945-689	08-10-2019	50124-88608-EO	A-M-0.2	5	Vivie Danneil	vdanneilr@mtv.com	Ireland	Ara	M	0.2	3.375	16.875	Arabica	Medium
CHF-76995-767	02-08-2022	00888-74814-UZ	A-D-0.5	3	Theresita Newbury	tnewburys@usda.gov	Ireland	Ara	D	0.5	5.97	17.91	Arabica	Dark
RVC-14633-402	20-02-2019	14158-30713-OB	A-D-1	4	Mozelle Calcutt	mcalcuttt@baidu.com	Ireland	Ara	D	1	9.95	39.8	Arabica	Dark
WOQ-36015-429	25-09-2021	51427-89175-QJ	L-M-0.2	5	Adrian Swaine		United States	Lib	M	0.2	4.365	21.825	Liberica	Medium
WOQ-36015-429	25-09-2021	51427-89175-QJ	A-D-0.5	6	Adrian Swaine		United States	Ara	D	0.5	5.97	35.82	Liberica	Dark
WOQ-36015-429	25-09-2021	51427-89175-QJ	L-M-0.5	6	Adrian Swaine		United States	Lib	M	0.5	8.73	52.38	Liberica	Medium
SCT-60553-454	17-07-2021	39123-12846-YJ	L-L-0.2	5	Gallard Gatheral	ggatheralx@123-reg.co.uk	United States	Lib	L	0.2	4.755	23.775	Libérica	Light
GFK-52063-244	29-06-2020	44981-99666-XB	L-L-0.5	6	Una Welberry	uwelberryy@ebay.co.uk	United Kingdom	Lib	L	0.5	9.51	57.06	Liberica	Light
AMM-79521-378	01-06-2021	24825-51803-CQ	A-D-0.5	6	Faber Ellhart	feilhartz@who.int	United States	Ara	D	0.5	5.97	35.82	Arabica	Dark
QUQ-90580-772	06-02-2021	77634-13918-GJ	L-M-0.2	2	Zorina Ponting	zponting10@altervista.org	United States	Lib	M	0.2	4.365	8.73	Liberica	Medium

Applying conditional statement to fulfill the requirement

## 1.4: Formatting

Formatting size, unit price and sales

where added 1 decimal after after the point and added 'kg' unit

Size
1
0.5
1
1
2.5
1
0.5
0.2
0.5
0.5
1
2.5
1
2.5
0.2
2.5
0.2
1
2.5
0.2
0.2
0.2
2.5
0.2
1
0.2
0.5
0.2
0.5
1
0.2

Before

Size
1.0 kg
0.5 kg
1.0 kg
1.0 kg
2.5 kg
1.0 kg
0.5 kg
0.2 kg
0.5 kg
0.5 kg
1.0 kg
2.5 kg
1.0 kg
2.5 kg
0.2 kg
2.5 kg
0.2 kg
1.0 kg
2.5 kg
0.2 kg
0.2 kg
0.2 kg
2.5 kg
0.2 kg
1.0 kg
0.2 kg
0.5 kg
0.2 kg
0.5 kg
1.0 kg

After

Added dollar sign after unit price and sales



Unit Price	Sales
9.95	19.9
8.25	41.25
12.95	12.95
13.75	27.5
27.485	54.97
12.95	38.85
7.29	21.87
4.755	4.755
5.97	17.91
5.97	5.97
9.95	39.8
34.155	170.775
9.95	49.75
20.585	41.17
3.885	11.655
22.885	114.425
3.375	20.25
12.95	77.7
20.585	82.34
3.375	16.875
3.645	14.58
2.985	17.91
22.885	91.54
2.985	11.94
11.25	11.25
4.125	12.375
6.75	27
3.375	16.875
5.97	17.91
9.95	39.8

Before

1.5

Unit Price	Sales
9.95 \$	19.90 \$
8.25 \$	41.25 \$
12.95 \$	12.95 \$
13.75 \$	27.50 \$
27.49 \$	54.97 \$
12.95 \$	38.85 \$
7.29 \$	21.87 \$
4.76 \$	4.76 \$
5.97 \$	17.91 \$
5.97 \$	5.97 \$
9.95 \$	39.80 \$
34.16 \$	170.78 \$
9.95 \$	49.75 \$
20.59 \$	41.17 \$
3.89 \$	11.66 \$
22.89 \$	114.43 \$
3.38 \$	20.25 \$
12.95 \$	77.70 \$
20.59 \$	82.34 \$
3.38 \$	16.88 \$
3.65 \$	14.58 \$
2.99 \$	17.91 \$
22.89 \$	91.54 \$
2.99 \$	11.94 \$
11.25 \$	11.25 \$
4.13 \$	12.38 \$
6.75 \$	27.00 \$
3.38 \$	16.88 \$
5.97 \$	17.91 \$
9.95 \$	39.80 \$
4.27 \$	21.82 \$

After

Checking for duplicate data values

Creating another Pivot named as  
'Country BarChart' Using the following  
field settings

A	B	C	D	E	F	G	H	I	J	K
Order ID	Order Date	Customer ID	Product ID	Quantity	Customer Name	Email	Country	Coffee Type	Roast Type	Size
QEV-37451-860	05-09-2019	17670-51384-MA	R-M-1	2	Aloisia Allner	aallner0@lulu.com	United States	Rob	M	1.0
QEV-37451-860	05-09-2019	17670-51384-MA	E-M-0.5	5	Aloisia Allner	aallner0@lulu.com	United States	Exc	M	0.5
FAA-43335-268	17-06-2021	21125-22134-PX	A-L-1	1	Jami Redholes	jredholes2@tmall.com	United States	Ara	L	1.0
KAC-83089-793	15-07-2021	23806-46781-OU	E-M-1	2	Christoffer O' Shea		Ireland	Exc	M	1.0
KAC-83089-793	15-07-2021	23806-46781-OU	R-L-2.5	2	Christoffer O' Shea		Ireland	Rob	L	2.5
CVP-18956-553	04-08-2021	86561-91660-RB	L-D-1	3	Beryle Cottler		United States	Lib	D	1.0
IPP-31994-879	21-01-2022	65223-29612-CB	E-D-0.5	3	Shaylynn Lobe	slobe6@nifty.com	United States	Exc	D	0.5
SNZ-65340-705	20-05-2022	21134-81676-FR	L-L-0.2	1	Melvin Wharfe		Ireland	Lib	L	0.2
EZT-46571-659	02-01-2019	03396-68805-ZC	R-M-0.5	3	Guth	Microsoft Excel	United States	Rob	M	0.5
NWQ-70061-912	05-09-2019	61021-27840-ZN	R-M-0.5	1	Rodg		United States	Rob	M	0.5
BKK-47233-845	08-03-2021	76239-90137-UQ	A-D-1	4	Ferre		United States	Ara	D	1.0
VQR-01002-970	28-10-2020	49315-21985-BB	E-L-2.5	5	Duky		United States	Exc	L	2.5
SZW-48378-399	02-07-2022	34136-36674-OM	R-M-1	5	Rosa		United States	Rob	M	1.0
ITA-87418-783	22-05-2020	39396-12890-PE	R-D-2.5	2	Terence		United States	Rob	D	2.5
GNZ-46006-527	05-04-2022	95875-73336-RG	L-D-0.2	3	Patrice Trobe	ptrobe@wunderground.com	United States	Lib	D	0.2
FYQ-78248-319	07-06-2022	25473-43727-BY	R-M-2.5	5	Llywellyn Oscroft	loscroftf@ebay.co.uk	United States	Rob	M	2.5
VAU-44387-624	20-03-2019	99643-51048-IQ	A-M-0.2	6	Minni Alabaster	malabasterg@hexun.com	United States	Ara	M	0.2
RDW-33155-159	19-10-2019	62173-15287-CU	A-L-1	6	Rhianon Broxup	rbroxuph@jimdo.com	United States	Ara	L	1.0
TDZ-59011-211	13-06-2019	57611-05522-ST	R-D-2.5	4	Pall Redford	predfordi@ow.ly	Ireland	Rob	D	2.5
IDU-25793-399	04-12-2020	76664-37050-DT	A-M-0.2	5	Aurea Corradino	acorradinoj@harvard.edu	United States	Ara	M	0.2
IDU-25793-399	04-12-2020	76664-37050-DT	E-D-0.2	4	Aurea Corradino	acorradinoj@harvard.edu	United States	Exc	D	0.2
NUO-20013-488	04-12-2020	03090-88267-BQ	A-D-0.2	6	Avrit Davidowsky	adavidowsky@netvibes.com	United States	Ara	D	0.2
UQU-65630-479	22-01-2021	37651-47492-NC	R-M-2.5	4	Annabel Antuk	aantukm@kickstarter.com	United States	Rob	M	2.5
FEO-11834-332	11-02-2022	95399-57205-HI	A-D-0.2	4	Iorgo Kleinert	ikleinertn@timesonline.co.uk	United States	Ara	D	0.2

## STEP-2: Pivot Tables

### 2.1:

Inserting a Pivot Table using the the orders table

Insert → Pivot Table



# PivotTable Fields

Choose fields to add to report:

Search

☐ Order ID

☐ Order Date

☐ Customer ID

☐ Product ID

☐ Quantity

☐ Customer Name

Drag fields between areas below:

Filters

Columns

Coffee Type Name

Rows

Years (Order Date)

Months (Order Date)

Values

Sum of Sales

☐ Defer Layout Update

Update

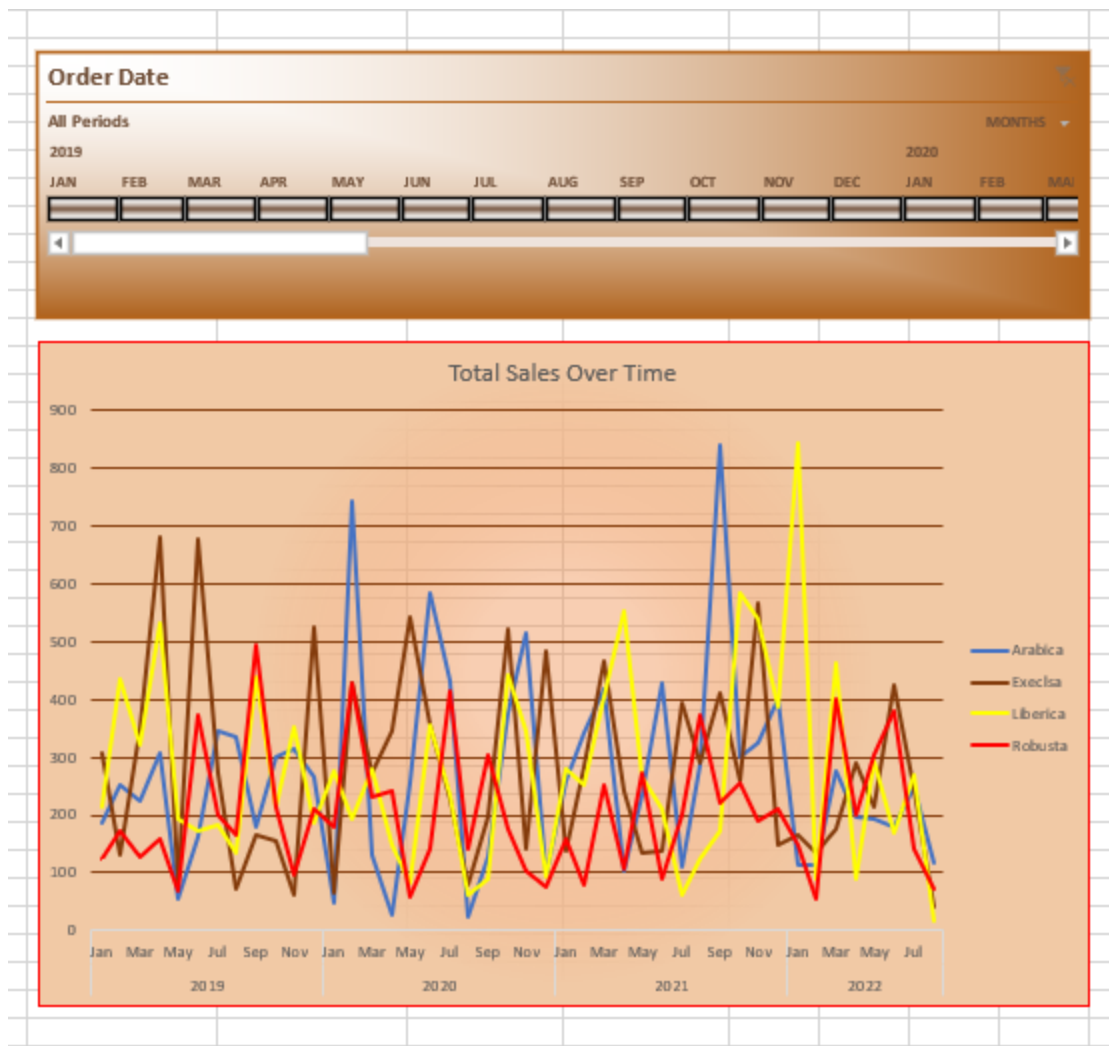
Coffee Sales Analysis Using Excel

12

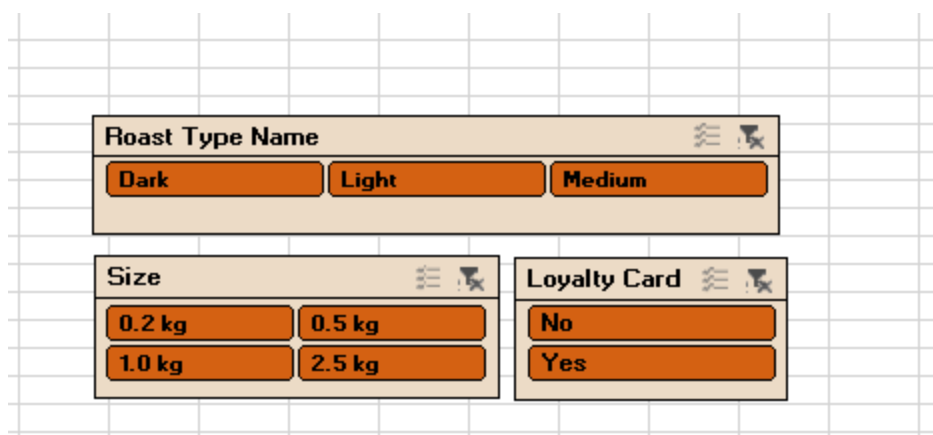
Sum of Sales	Coffee Type Name ▾				
Years (Order Date) ▾	Months (Order Date) ▾	Arabica	Excelsa	Liberica	Robusta
2019	Jan	187	306	213	123
	Feb	252	129	434	172
	Mar	225	349	321	126
	Apr	307	681	534	159
	May	54	83	194	68
	Jun	163	678	171	372
	Jul	345	274	184	201
	Aug	335	71	134	166
	Sep	179	166	439	493
	Oct	302	154	216	214
	Nov	313	63	351	96
	Dec	266	527	187	211
2020	Jan	47	66	275	179
	Feb	745	429	194	430
	Mar	130	271	281	232
	Apr	27	347	148	240
	May	255	542	83	59
	Jun	585	357	355	141
	Jul	431	227	236	415
	Aug	23	78	61	140
	Sep	126	195	89	303
	Oct	376	523	441	174
	Nov	515	143	347	104
	Dec	96	485	94	77

## 2.3

Inserting a Line chart and a Timeline using the TotalSales pivot table

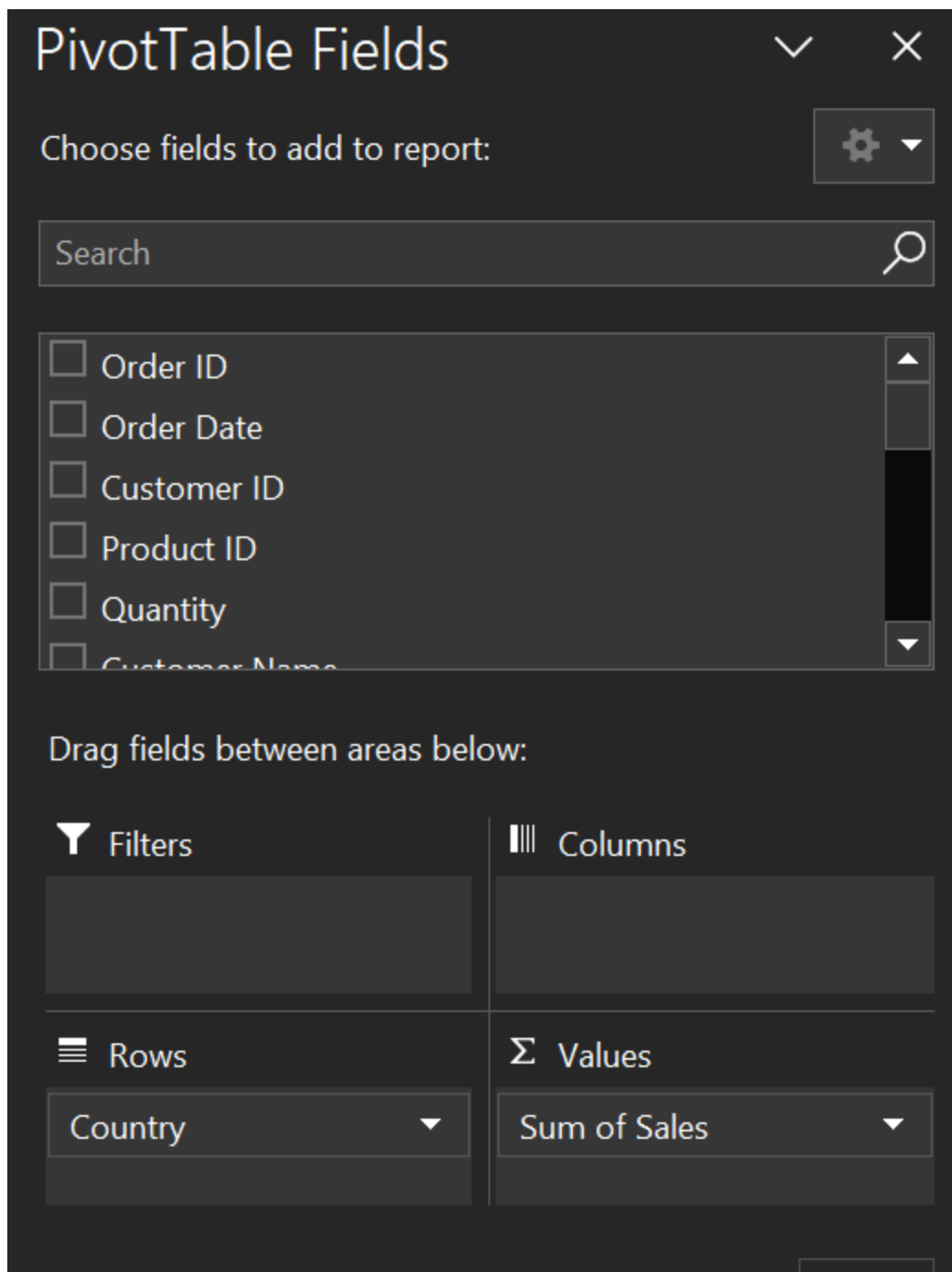


also creating slicer using 3 properties: size, loyalty card and Roast type name



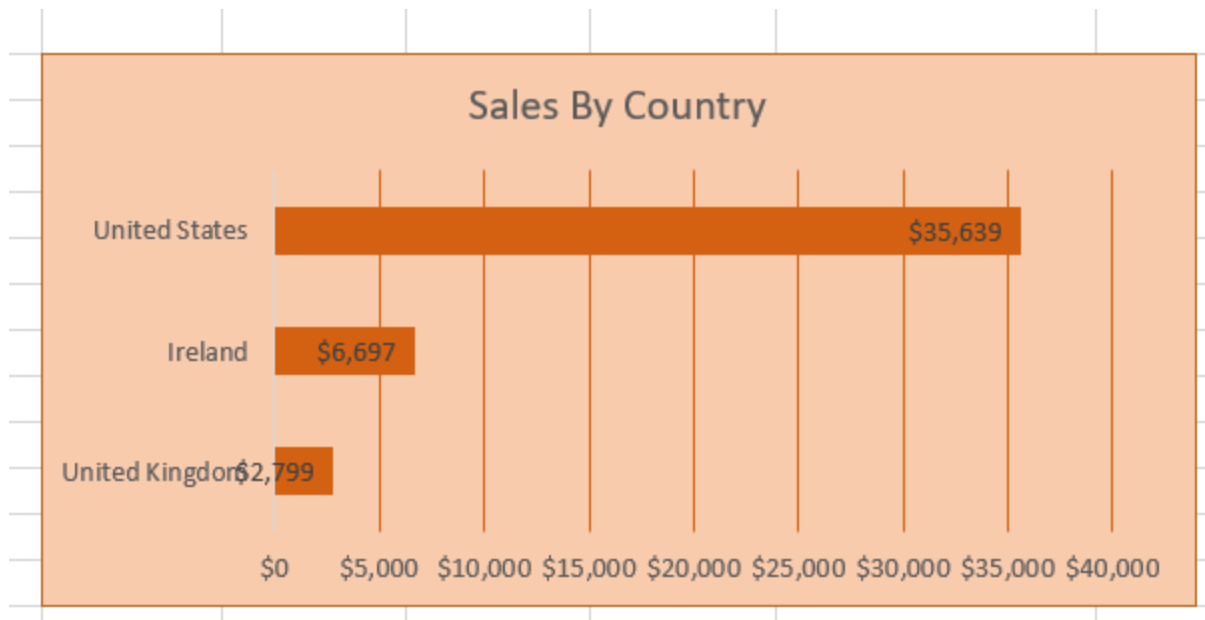
## 2.4

Creating another Pivot named as 'Country BarChart' Using the following field settings



## 2.5:

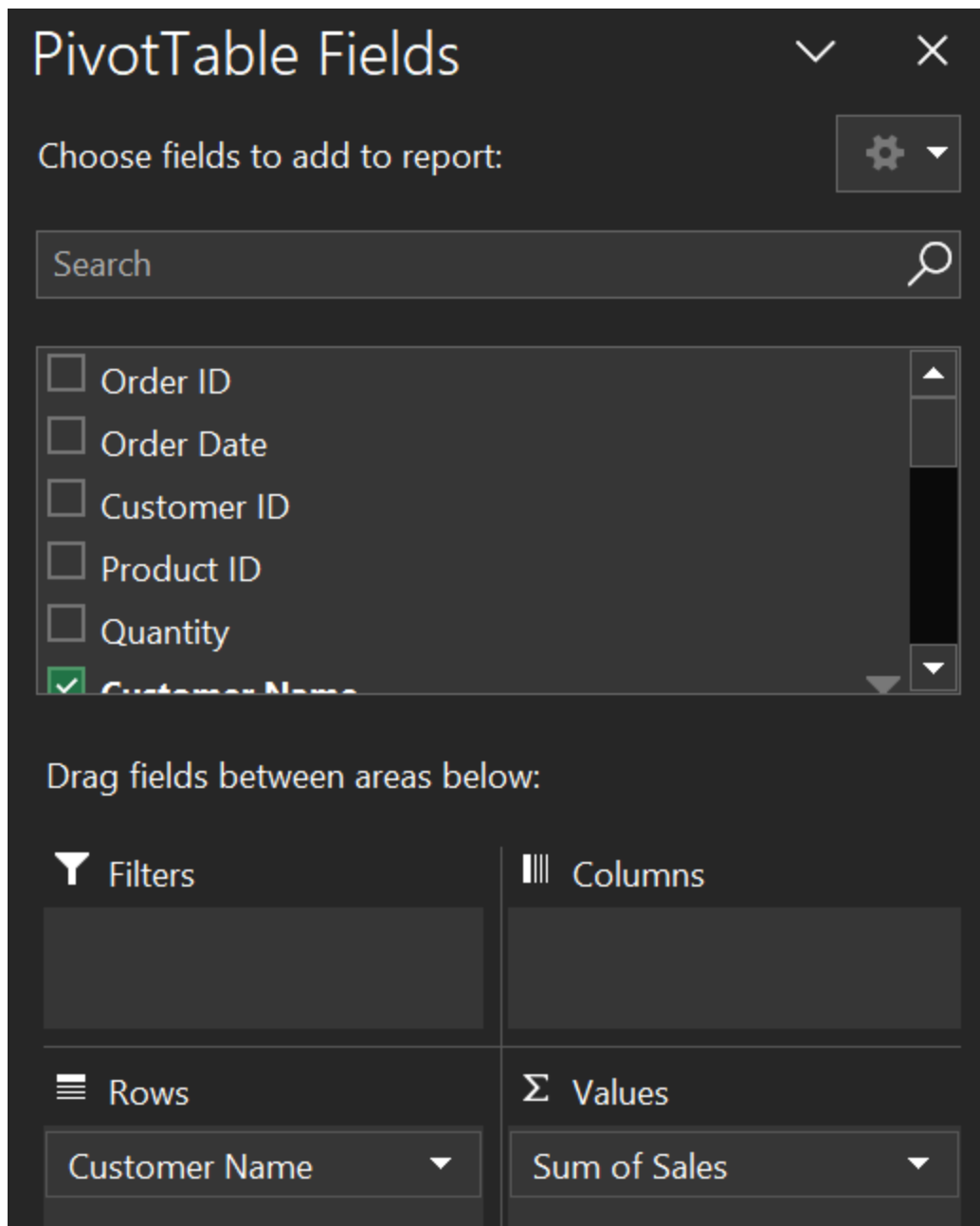
Inserting a Horizontal Bar chart using the Country BarChart table



## 2.6:

Creating another Pivot named as 'Top Customers' Using the following field settings





**2.7 :**

Inserting a Horizontal Bar chart using the Top Customers table



## STEP-3: Creating the Final Dashboard

### 3.1:

Creating a new sheet to bring all the visuals on one sheet and arranging them

### 3.2

Connecting the reports

## The final DashBoard

