Project: Coffee Sales Analysis

1. Project Objective

The primary objective of this project is to analyze the coffee sales of a company to better understand sales trends, identify improvement opportunities, and provide strategic recommendations. This project focuses on optimizing sales management using advanced Excel tools and functions.

2. Data Used

The data includes:

• Sales by Product: Quantities of coffee sold by product type.

• Unit Cost: Selling price and cost per unit of each product.

• Sales Dates: Specific periods when sales occurred.

- 4	A B C		D	E	F	G	Н	
1	ID du produit	Type de café	Type de torréfaction	Taille	Prix unitaire	Prix par 100g	Profit	
2	A-L-0.2	Ara	L	0,2	3,885	1,9425	0,3497	
3	A-L-0.5	Ara	L	0,5	7,77	1,554	0,6993	
4	A-L-1	Ara	L	1,0	12,95	1,295	1,1655	
5	A-L-2.5	Ara	L	2,5	29,785	1,1914	2,6807	
6	A-M-0.2	Ara	M	0,2	3,375	1,6875	0,3038	
7	A-M-0.5	Ara	M	0,5	6,75	1,35	0,6075	
8	A-M-1	Ara	M	1,0	11,25	1,125	1,0125	
9	A-M-2.5	Ara	M	2,5	25,875	1,035	2,3288	
10	A-D-0.2	Ara	D	0,2	2,985	1,4925	0,2687	
11	A-D-0.5	Ara	D	0,5	5,97	1,194	0,5373	
12	A-D-1	Ara	D	1,0	9,95	0,995	0,8955	
13	A-D-2.5	Ara	D	2,5	22,885	0,9154	2,0597	
14	R-L-0.2	Rob	L	0,2	3,585	1,7925	0,2151	
15	R-L-0.5	Rob	L	0,5	7,17	1,434	0,4302	
16	R-L-1	Rob	L	1,0	11,95	1,195	0,717	
17	R-L-2.5	Rob	L	2,5	27,485	1,0994	1,6491	

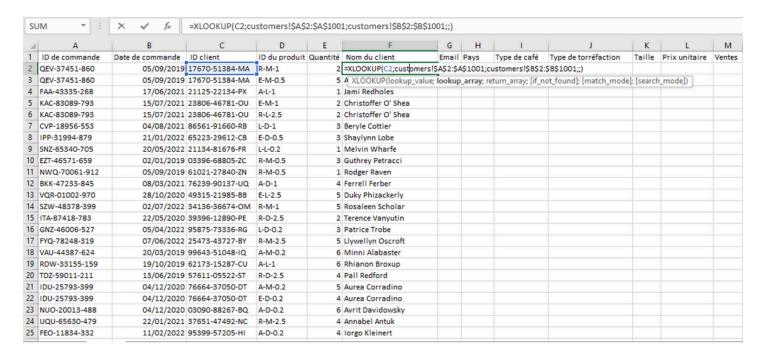
4	Α	В	C	D	E	F	G	н	1
1	ID client	Nom du client	Email	Numéro de téléphone	Adresse ligne 1	Ville	Pays	Code postal	Carte de fidélité
2	17670-51384-MA	Aloisia Allner	aallner0@lulu.com	+1 (862) 817-0124	57999 Pepper Wood Alley	Paterson	United States	7505	Yes
3	73342-18763-UW	Piotr Bote	pbote1@yelp.com	+353 (913) 396-4653	2112 Ridgeway Hill	Crumlin	Ireland	D6W	No
4	21125-22134-PX	Jami Redholes	jredholes2@tmall.com	+1 (210) 986-6806	5214 Bartillon Park	San Antonio	United States	78205	Yes
5	71253-00052-RN	Dene Azema	dazema3@facebook.com	+1 (217) 418-0714	27 Maywood Place	Springfield	United States	62711	Yes
6	23806-46781-OU	Christoffer O' Shea		+353 (698) 362-9201	38980 Manitowish Junction	Cill Airne	Ireland	N41	No
7	86561-91660-RB	Beryle Cottier		+1 (570) 289-7473	2651 Stoughton Place	Scranton	United States	18505	No
8	65223-29612-CB	Shaylynn Lobe	slobe6@nifty.com	+1 (937) 954-4541	7005 Mariners Cove Place	Dayton	United States	45440	Yes
9	21134-81676-FR	Melvin Wharfe		+353 (507) 574-3034	7 Straubel Road	Kill	Ireland	P24	Yes
10	03396-68805-ZC	Guthrey Petracci	gpetracci8@livejournal.com	+1 (310) 868-1842	949 Paget Parkway	Los Angeles	United States	90045	No
11	61021-27840-ZN	Rodger Raven	rraven9@ed.gov	+1 (213) 263-0288	1 Reinke Avenue	Los Angeles	United States	90065	No
12	76239-90137-UQ	Ferrell Ferber	fferbera@businesswire.com	+1 (408) 383-5302	68 High Crossing Court	San Jose	United States	95160	No
13	49315-21985-BB	Duky Phizackerly	dphizackerlyb@utexas.edu	+1 (408) 533-6012	28643 Bluejay Crossing	San Jose	United States	95194	Yes
14	34136-36674-OM	Rosaleen Scholar	rscholarc@nyu.edu	+1 (804) 420-0420	80915 Montana Park	Richmond	United States	23285	No
15	39396-12890-PE	Terence Vanyutin	tvanyutind@wix.com		331 Bunting Hill	Migrate	United States	41905	No
16	95875-73336-RG	Patrice Trobe	ptrobee@wunderground.com	+1 (314) 240-7896	827 Declaration Plaza	Saint Louis	United States	63131	Yes
17	25473-43727-BY	Llywellyn Oscroft	loscroftf@ebay.co.uk		022 Roth Place	Philadelphia	United States	19172	No
18	99643-51048-IQ	Minni Alabaster	malabasterg@hexun.com	+1 (971) 483-6255	3 Charing Cross Trail	Portland	United States	97271	No
19	62173-15287-CU	Rhianon Broxup	rbroxuph@jimdo.com	+1 (713) 663-1338	83517 Thierer Court	Houston	United States	77240	No
20	57611-05522-ST	Pall Redford	predfordi@ow.ly		7337 Hayes Junction	Caherconlish	Ireland	F45	Yes
21	76664-37050-DT	Aurea Corradino	acorradinoi@harvard.edu	+1 (646) 202-5965	698 Canary Terrace	New York City	United States	10060	Yes

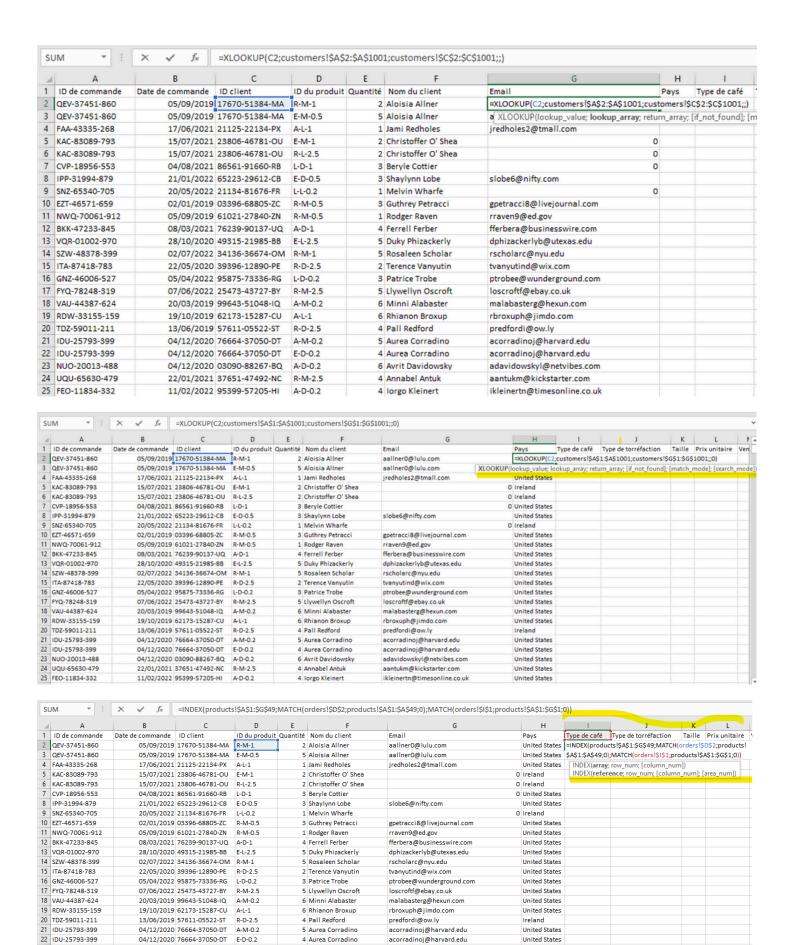
	Α	В	С	D	E	F	G	Н	1	J	K	L	M
1	ID de commande	Date de commande	ID client	ID du produit	Quantité	Nom du client	Email	Pays	Type de café	Type de torréfaction	Taille	Prix unitaire	Ventes
2	QEV-37451-860	05/09/2019	17670-51384-MA	R-M-1	2								
3	QEV-37451-860	05/09/2019	17670-51384-MA	E-M-0.5	5								
4	FAA-43335-268	17/06/2021	21125-22134-PX	A-L-1	1								
5	KAC-83089-793	15/07/2021	23806-46781-OU	E-M-1	2								
6	KAC-83089-793	15/07/2021	23806-46781-OU	R-L-2.5	2								
7	CVP-18956-553	04/08/2021	86561-91660-RB	L-D-1	3								
8	IPP-31994-879	21/01/2022	65223-29612-CB	E-D-0.5	3								
9	SNZ-65340-705	20/05/2022	21134-81676-FR	L-L-0.2	1								
10	EZT-46571-659	02/01/2019	03396-68805-ZC	R-M-0.5	3								
11	NWQ-70061-912	05/09/2019	61021-27840-ZN	R-M-0.5	1								
12	BKK-47233-845	08/03/2021	76239-90137-UQ	A-D-1	4								
13	VQR-01002-970	28/10/2020	49315-21985-BB	E-L-2.5	5								
14	SZW-48378-399	02/07/2022	34136-36674-OM	R-M-1	5								
15	ITA-87418-783	22/05/2020	39396-12890-PE	R-D-2.5	2								
16	GNZ-46006-527	05/04/2022	95875-73336-RG	L-D-0.2	3								
17	FYQ-78248-319	07/06/2022	25473-43727-BY	R-M-2.5	5								
18	VAU-44387-624	20/03/2019	99643-51048-IQ	A-M-0.2	6								
19	RDW-33155-159	19/10/2019	62173-15287-CU	A-L-1	6								
20	TDZ-59011-211	13/06/2019	57611-05522-ST	R-D-2.5	4								
21	IDU-25793-399	04/12/2020	76664-37050-DT	A-M-0.2	5								

3. Features Used

a) XLOOKUP and INDEX MATCH

Used to search for specific information within large databases, such as linking sales to products or clients. These formulas allow for quick retrieval of important data, like product prices and quantities sold.





6 Avrit Davidowsky

4 lorgo Kleinert

adavidowskyl@netvibes.com

ikleinertn@timesonline.co.uk

aantukm@kickstarter.com

United States

United States

United States

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25 FEO-11834-332

UQU-65630-479

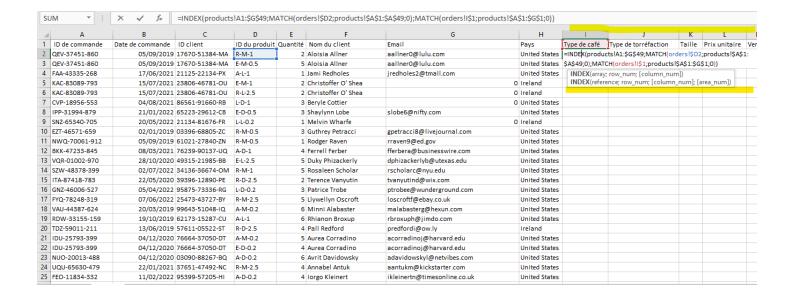
04/12/2020 03090-88267-BO

22/01/2021 37651-47492-NC

11/02/2022 95399-57205-HI

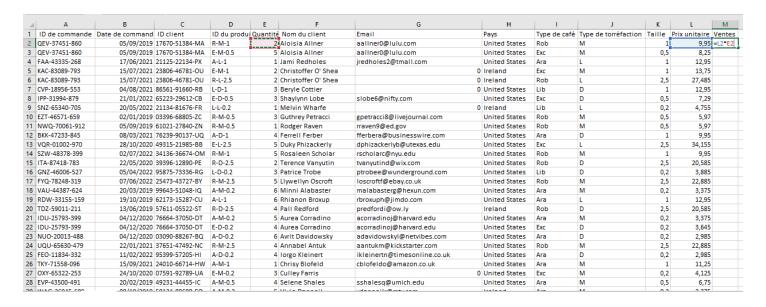
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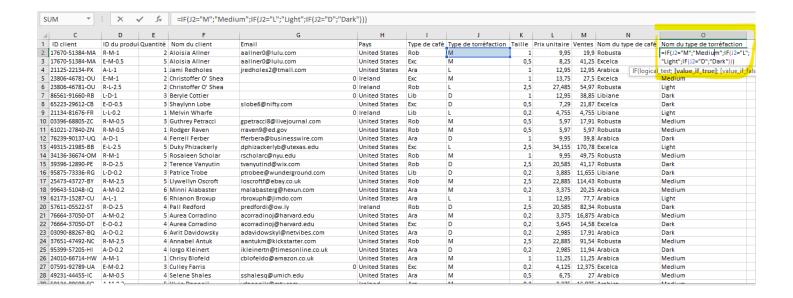
b) Multiplication Formula for Sales

A simple formula was used to calculate the total revenue by multiplying the number of units sold by the unit selling price.



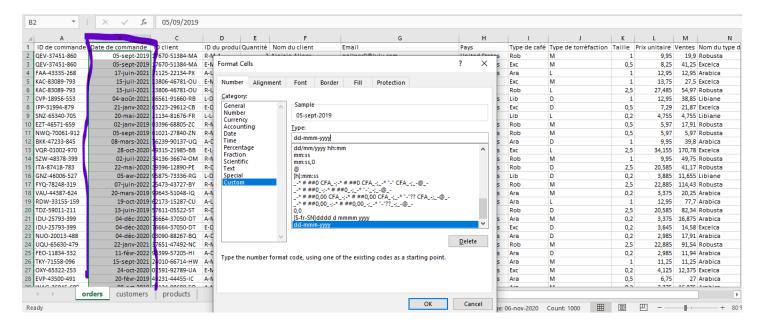
c) Multiple IF Functions

IF functions were used to define different conditions, such as calculating discounts or checking if sales meet certain thresholds.



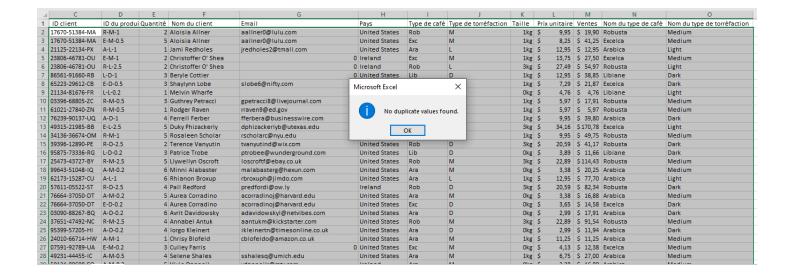
d) Date and Number Formatting

Specific formatting was applied to dates (days, months, years) to ensure a clearer reading of sales periods. Numbers (such as monetary amounts) were formatted to indicate currency values with separators and decimals.



e) Checking for Duplicates

Duplicates in sales or product information were checked and removed to ensure data reliability.



f) Convert Range to Table

All data was converted into a table to facilitate filter management and data sorting, making the analysis process more fluid and interactive.

4. Analysis with Pivot Tables

Pivot tables were used to group and summarize data by product, month, and client. They were used to:

- Visualize total sales by coffee type.
- Compare sales performance over time.
- Identify top clients or market segments.

3	Sum of Vent	es	Type de café 🔻			
4	Years	Date de commande 💌	Ara	Exc	Lib	Rob
5	□ 2019	janv	187	306	213	123
6		févr	252	129	434	172
7		mars	225	349	321	126
8		avr	307	681	534	159
9		mai	54	83	194	68
10		juin	163	678	171	372
11		juil	345	274	184	201
12		août	335	71	134	166
13		sept	179	166	439	493

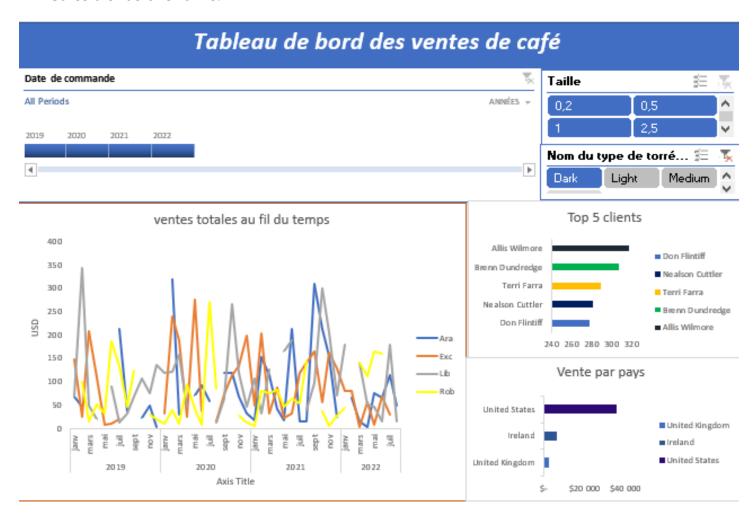
Pivot Charts

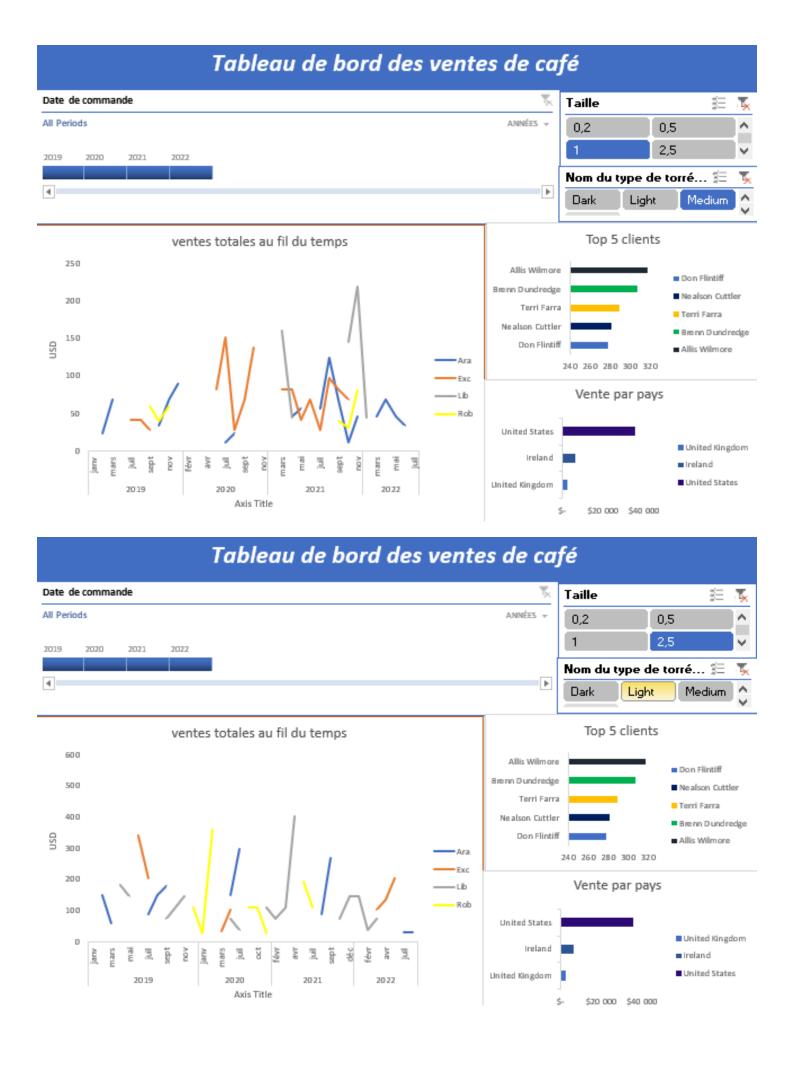
Pivot charts were created to visualize results dynamically and help decision-makers understand trends more easily.

5. Dashboard

An interactive dashboard was developed to track key performance indicators (KPIs) in real-time, including:

- Sales by product.
- Sales by month or quarter.
- Best product categories.
- Sales trends over time.





This dashboard includes **timelines** and **slicers** for interactive filtering and more precise analysis.

6. Updating the Data Source

The data sources for the pivot table were regularly updated to ensure the dashboard always reflected the most recent information available.

7. Results and Recommendations

The analysis highlighted the best-performing products and the most profitable sales periods. This led to recommendations:

- Increase sales of the most popular products.
- Adjust sales strategies for less effective products.
- Target historically lower sales periods with promotions or special offers.

8. Challenges Encountered

Some difficulties were encountered with managing duplicates in the data, but these were resolved using duplicate checking and data cleaning features.

9. Conclusion

The project provided a more strategic approach to sales analysis using Excel. The interactive dashboard offers a clear and comprehensive view of company performance, facilitating informed decision-making.