

Excel Assignment 2 - Data Cleaning and Transformation

Task:

Handling Missing Values:

Check for missing values in the 'Price' column. How would you handle products with missing price information?

- If there are products with missing categories, propose a strategy to impute or deal with these missing values effectively.

Correcting Inconsistent Data:

- Identify any inconsistent text formats present in the "Product Name" column.
- Identify any typos present in the "Category" column.
- Use the find and replace function to standardize the text formats in the "Product Name" column and fix any typos or misspellings in the "Category" column.

Removing Duplicates:

- Identify any duplicate rows within the dataset based on the entirety of each row, and remove them if any.

Splitting and Merging Data:

- Split the "Product ID" column into two separate columns for "Manufacturing Date" and "Country Code". Remove unnecessary characters, if any.
- Merge the "Brand Name" and "Product Name" columns into one column named "Product Brand".

Number Formatting:

- Format the data type of the "Price" column to currency format.
- Format the "Manufacturing Date" column to display dates in the "DD-MM-YYYY" format.

Conditional Formatting:

- Apply data bar or color scales conditional formatting in the "Price" column.
- Create a custom rule for conditional formatting in the "Category" column to highlight cells where the category is "Electronics."

Output and work:

I have to follow the above formulas and step can generate this file

Screenshot:

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Clipboard Font Alignment Number Styles Cells Editing

Product ID Product Name Brand Name Price (€) Quantity Category Price Category Manufacturer Date Country Code Product Brand Date Format

21-JAN-UK	Laptop	Dell	1000	50	Electronics	€1000.00	Electronics	20-JAN	US	Dell Laptop	20-Jan-25	20-01-2025
11-FEB-US	Smartphones	Nokia	60	10	Fashion	€150.00	Fashion	15-FEB	US	Nika Sneakers	15-Feb-25	15-02-2025
10-MAR-UK	Shoes	Adidas	120	40	Kitchen	€150.00	Kitchen	10-MAR	UK	Kristen Coffee Maker	10-Mar-25	10-03-2025
11-MAR-US	Smartphones	Samsung	300	15	Electronics	€300.00	Electronics	11-MAR	US	Danawu Smartphone	11-Apr-25	11-04-2025
22-MAY-UK	Backpack	North Face	70	20	Electronics	€170.00	Outdoor	22-MAY	UK	North Face Backpack	22-May-25	22-05-2025
01-JUN-UK	Headphones	Sony	45	10	Electronics	€235.00	Electronics	01-JUN	UK	Sony Headphones	1-Jun-25	01-06-2025
13-JUL-UK	T-shirt	Adidas	30	5	Fashion	€150.00	Fashion	13-JUL	UK	Adidas T-shirt	13-Jul-25	13-07-2025
23-AUG-UK	Blender	Ninja	30	35	Kitchen	€130.00	Kitchen	23-AUG	UK	Ninja Blender	23-Aug-25	23-08-2025
01-SEP-UK	Tablet	Apple	500	10	Electronics	€400.00	Electronics	01-SEP	UK	Apple Tablet	1-Sep-25	01-09-2025
14-OCT-UK	Hiking Boots	Timberland	100	10	Outdoor	€100.00	Outdoor	14-OCT	UK	Timberland Hiking Boots	14-Oct-25	14-10-2025
11-JUN-IN	Laptop	HP	350	25	Electronics	€350.00	Electronics	11-JUN	IN	HP Laptop	11-Jun-25	11-06-2025
25-NOV-AU	Smartphones	Adidas	30	40	Fashion	€130.00	Fashion	25-NOV	AU	Adidas Smartphones	25-Nov-25	25-11-2025
10-DEC-DE	Coffee Maker	Nespresso	150	35	Kitchen	€150.00	Kitchen	10-DEC	DE	Nespresso Coffee Maker	10-Dec-25	10-12-2025
15-FEB-CA	Smartwatch	Fibit	150	15	Electronics	€150.00	Electronics	15-FEB	CA	Fibit Smartwatch	15-Feb-25	15-02-2025
16-APR-ES	Headphones	Bose	250	20	Electronics	€250.00	Electronics	16-APR	ES	Bose headphones	16-Apr-25	16-04-2025
11-AUG-CA	Laptop Bag	Samsonite	50	30	Accessories	€150.00	Accessories	11-AUG	CA	Samsonite Laptop Bag	11-Aug-25	11-08-2025
20-AUG-CN	Smartwatch	Huawei	160	15	Electronics	€160.00	Electronics	20-AUG	CN	Huawei Smartwatch	20-Aug-25	20-08-2025
21-JAN-IT	Laptop	Acer	380	10	Electronics	€380.00	Electronics	21-JAN	IT	Acer Laptop	21-Jan-25	21-01-2025
20-MAR-UK	Smartphones	Oukitel	150	15	Fashion	€150.00	Fashion	20-MAR	UK	Oukitel Smartphones	1-Mar-25	01-03-2025
14-AUG-US	Camper Tent	Coleman	10	10	Outdoor	€235.00	Outdoor	14-AUG	US	Coleman Camping Tent	14-Aug-25	14-08-2025
16-MAY-RU	Cameras	Nikon	700	50	Electronics	€700.00	Electronics	16-MAY	RU	Nikon Cameras	16-May-25	16-05-2025
02-JAN-CA	Microscopes	Panasonic	80	20	Kitchen	€150.00	Kitchen	02-JAN	CA	Panasonic Microscopes	2-Jan-25	02-01-2025
19-JUL-BR	Fitness Tracker	Xiaomi	150	30	Electronics	€150.00	Electronics	19-JUL	BR	Xiaomi Fitness Tracker	19-Jul-25	19-07-2025
23-SEP-CA	Smartphones	Google	800	45	Electronics	€800.00	Electronics	23-SEP	CA	Google Smartphones	23-Sep-25	23-09-2025
02-JUN-CA	Smartphones	Ray-Ban	25	25	Fashion	€100.00	Fashion	02-JUN	CA	Ray-Ban Smartphones	2-Jun-25	02-06-2025
27-JUL-CA	Blender	Vitamix	400	10	Kitchen	€400.00	Kitchen	27-JUL	CA	Vitamix Blender	1-Jul-25	01-07-2025
01-MAR-CA	Dress	Zara	60	30	Fashion	€160.00	Fashion	01-MAR	CA	Zara Dress	1-Mar-25	01-03-2025
12-APR-CA	Toaster	Hamilton	40	10	Kitchen	€140.00	Kitchen	12-APR	CA	Hamilton Toaster	12-Apr-25	12-04-2025
24-MAY-CA	Fitness Tracker	Garmin	100	10	Electronics	€100.00	Electronics	24-MAY	CA	Garmin Fitness Tracker	24-May-25	24-05-2025
01-DEC-CA	Jeans	Levi's	50	50	Fashion	€100.00	Fashion	01-DEC	CA	Levi's Jeans	2-Dec-2	

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A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q				
Product ID	Product Name	Brand Name	Price (\$)	Quantity	Category		Price	Category	Manufacture date	Country Code	Product Brand		Date Formate							
28-JAN-US	Laptop	Dell	1000	30	Electronics		\$1,000.00	Electronics	28-JAN	US	Dell Laptop		28-Jan-25							
15-FEB-US	Sneakers	Nike	80	15	Fashion		\$80.00	Fashion	15-FEB	US	Nike Sneakers		15-Feb-25							
03-MAR-US	Coffee Maker	Keurig	130	40	Kitchen		\$130.00	Kitchen	03-MAR	US	Keurig Coffee Maker		3-Mar-25							
11-APR-US	Smartphone	Samsung	900	25	Electronics		\$900.00	Electronics	11-APR	US	Samsung Smartphone		11-Apr-25							
22-MAY-US	Backpack	North Face	70	20			\$70.00	Outdoor	22-MAY	US	North Face Backpack		22-May-25							
07-JUN-UK	Headphones	Sony		45	Electronics		\$298.00	Electronics	07-JUN	UK	Sony Headphones		7-Jun-25							
19-JUL-UK	T-shirt	Addas	30	5	Fashion		\$30.00	Fashion	19-JUL	UK	Addas T-shirt		19-Jul-25							
23-AUG-UK	Blender	Ninja	90	35	Kitchen		\$90.00	Kitchen	23-AUG	UK	Ninja Blender		23-Aug-25							
05-SEP-UK	Tablet	Apple	500	50	Electronics		\$500.00	Electronics	05-SEP	UK	Apple Tablet		5-Sep-25							
14-OCT-UK	Hiking Boots	Timberland	130	10	Outdoor		\$130.00	Outdoor	14-OCT	UK	Timberland Hiking Boots		14-Oct-25							
17-JUN-IN	Laptop	HP	950	25	Electronics		\$950.00	Electronics	17-JUN	IN	HP Laptop		17-Jun-25							
25-NOV-AU	Sneakers	Addas	90	40			\$90.00	Fashion	25-NOV	AU	Addas Sneakers		25-Nov-25							
08-DEC-DE	Coffee Maker	Nespresso	120	35			\$120.00	Kitchen	08-DEC	DE	Nespresso Coffee Maker		08-Dec-25							
18-FEB-CA	Smartwatch	Fibit	150	15	Electronics		\$150.00	Electronics	18-FEB	CA	Fibit Smartwatch		18-Feb-25							
16-APR-ES	headphones	Bose	250	20	Electronics		\$250.00	Electronics	16-APR	ES	Bose headphones		16-Apr-25							
21-AUG-CA	Laptop Bag	Samsonite	50	35	Accessories		\$50.00	Accessories	21-AUG	CA	Samsonite Laptop Bag		21-Aug-25							
20-AUG-CN	Smartwatch	Huawei	160	15	Electronics		\$160.00	Electronics	20-AUG	CN	Huawei Smartwatch		20-Aug-25							
27-JAN-IT	Laptop	Asus	980	10	Electronics		\$980.00	Electronics	27-JAN	IT	Asus Laptop		27-Jan-25							
01-MAR-UK	Sunglasses	Oakley	150	15	Fashion		\$150.00	Fashion	01-MAR	UK	Oakley Sunglasses		1-Mar-25							
14-AUG-US	Camping Tent	Coleman		10	Outdoor		\$298.00	Outdoor	14-AUG	US	Coleman Camping Tent		14-Aug-25							
14-MAY-RU	Camera	Nikon	700	50	Electronics		\$700.00	Electronics	14-MAY	RU	Nikon Camera		14-May-25							
09-JAN-CA	Microwave	Panasonic	80	20	Kitchen		\$80.00	Kitchen	09-JAN	CA	Panasonic Microwave		9-Jan-25							
19-JUL-BR	Fitness Tracker	Xiaomi	150	30			\$150.00	Electronics	19-JUL	BR	Xiaomi Fitness Tracker		19-Jul-25							
29-SEP-CA	Smartphone	Google	800	45	Electronics		\$800.00	Electronics	29-SEP	CA	Google Smartphone		29-Sep-25							
03-JUN-CA	Sunglasses	Ray-Ban		25	Fashion		\$298.00	Fashion	03-JUN	CA	Ray-Ban Sunglasses		3-Jun-25							
11-JUL-CA	Blender	Vitamix	400	40	Kitchen		\$400.00	Kitchen	11-JUL	CA	Vitamix Blender		11-Jul-25							