

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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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	X	
	Product ID	Product Brand	Brand Name	Price (\$)	Quantity	Category	Price	Category	Manufacture Date	Country Code	Product Brand	Product Brand	Date Formatted											
2	28-JAN-US	Laptop	Dell	1000	30	Electronics	\$1000.00	Electronics	28-JAN	US	Dell Laptop	Dell Laptop	28-Jan-25	20-01-2025										
3	15-FEB-US	Smartwatch	Samsung	80	15	Electronics	\$80.00	Electronics	15-FEB	US	None	Samsung Smartwatch	15-Feb-25	15-02-2025										
4	05-MAR-US	Smartwatch	Apple	300	45	Electronics	\$300.00	Electronics	05-MAR	US	None	Apple Watch	05-Mar-25	05-03-2025										
5	11-APR-US	Smartphone	Samsung	200	22	Electronics	\$200.00	Electronics	11-APR	US	Samsung	Samsung Smartphone	11-Apr-25	11-04-2025										
6	22-MAY-US	Backpack	North Face	70	26	Electronics	\$70.00	Electronics	22-MAY	US	None	North Face Backpack	22-May-25	22-05-2025										
7	07-JUN-US	Headphones	Sony	45	Electronics	\$288.00	Electronics	07-JUN	UK	Sony	Sony Headphones	7-Jun-25	07-06-2025											
8	13-JUL-US	Smartwatch	Fitbit	50	15	Electronics	\$120.00	Electronics	13-JUL	UK	None	Fitbit Smartwatch	13-Jul-25	13-07-2025										
9	19-AUG-US	Blender	Ninja	30	30	Electronics	\$30.00	Electronics	19-AUG	US	Ninja	Ninja Blender	19-Aug-25	19-08-2025										
10	05-SEP-US	Tablet	Apple	500	50	Electronics	\$500.00	Electronics	05-SEP	UK	Apple	Apple Tablet	5-Sep-25	05-09-2025										
11	14-OCT-US	Hiking Boots	Timberland	150	10	Outdoor	\$150.00	Outdoor	14-OCT	UK	None	Timberland Hiking Boots	14-Oct-25	14-10-2025										
12	21-NOV-US	Laptop	HP	500	25	Electronics	\$500.00	Electronics	21-NOV	IN	HP	HP Laptop	21-Nov-25	21-11-2025										
13	05-DEC-US	Smartwatch	Apple	80	40	Electronics	\$80.00	Electronics	05-DEC	IN	None	Apple Watch	05-Dec-25	05-12-2025										
14	19-DEC-DE	Coffee Maker	Nespresso	120	35	Electronics	\$120.00	Electronics	09-DEC	DE	Nespresso	Nespresso Coffee Mkr & Dvcs-25	09-Dec-25	09-12-2025										
15	16-FEB-CA	Smartwatch	Fitbit	150	15	Electronics	\$150.00	Electronics	16-FEB	CA	Fitbit	Fitbit Smartwatch	16-Feb-25	16-02-2025										
16	10-APR-ES	Headphones	Bose	200	20	Electronics	\$250.00	Electronics	10-APR	ES	Bose	Bose headphones	10-Apr-25	10-04-2025										
17	17-MAY-CA	Smartwatch	Samsung	30	30	Accessories	\$150.00	Accessories	17-MAY	CA	Samsung	Samsung Laptop Bag	17-May-25	17-05-2025										
18	20-AUG-CA	Smartwatch	Samsung	100	15	Electronics	\$100.00	Electronics	20-AUG	CA	Samsung	Samsung Smartwatch	20-Aug-25	20-08-2025										
19	27-JAN-IT	Laptop	Asus	380	10	Electronics	\$380.00	Electronics	27-JAN	IT	Asus	Asus Laptop	27-Jan-25	27-01-2025										
20	04-MAR-UK	Swingdress	Oakley	150	15	Fashion	\$150.00	Fashion	01-MAR	UK	Oakley	Oakley Swingdress	1-Mar-25	01-03-2025										
21	14-APR-CA	Camper Tent	Coleman	100	10	Outdoor	\$288.00	Outdoor	14-APR	US	None	Coleman Camping Tent	14-Apr-25	14-04-2025										
22	21-MAY-CA	Smartwatch	Garmin	100	50	Electronics	\$300.00	Electronics	21-MAY	CA	None	Garmin Smartwatch	21-May-25	21-05-2025										
23	03-JAN-CA	Microscope	Poweromic	80	20	Kitchen	\$80.00	Kitchen	03-JAN	CA	Poweromic	Poweromic Microscope	3-Jan-25	03-01-2025										
24	19-JUL-BR	Fitness Tracker	Xiaomi	150	30	Electronics	\$150.00	Electronics	19-JUL	BR	Xiaomi	Xiaomi Fitness Tracker	19-Jul-25	19-07-2025										
25	29-SEP-CA	Smartphone	Google	800	45	Electronics	\$800.00	Electronics	29-SEP	CA	Google	Google Smartphone	29-Sep-25	29-09-2025										
26	12-OCT-CA	Smartwatch	Rolex	800	20	Electronics	\$800.00	Electronics	12-OCT	CA	Rolex	Rolex Smartwatch	12-Oct-25	12-10-2025										
27	11-JUL-CA	Blender	Vitamix	400	40	Kitchen	\$400.00	Kitchen	11-JUL	CA	Vitamix	Vitamix Blender	11-Jul-25	11-07-2025										
28	07-MAR-CA	Dress	Zara	60	30	Fashion	\$60.00	Fashion	07-MAR	CA	Zara	Zara Dress	7-Mar-25	07-03-2025										
29	15-APR-CA	Toaster	Hamilton	40	10	Kitchen	\$40.00	Kitchen	15-APR	CA	Hamilton	Hamilton Toaster	15-Apr-25	15-04-2025										
30	24-MAY-CA	Fitness Tracker	Garmen	150	5	Electronics	\$150.00	Electronics	24-MAY	CA	Garmen	Garmen Fitness Tracker	24-May-25	24-05-2025										
31	02-JUNE-CA	Jacket	Levi's	50	50	Fashion	\$150.00	Fashion	02-JUNE	CA	Levi's	Levi's Jacket	2-Jun-25	02-06-2025										
32	09-JUL-FR	Watch	Cartier	900	20	Accessories	\$900.00	Accessories	09-JUL	FR	Cartier	Cartier Watch	9-Jul-25	09-07-2025										
33																								

Instructions Dataset

Ready

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Arulmurgan C

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Arulmurugan C

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Product ID	Product Name	Brand Name	Price (\$)	Quantity	Category	Price	Category	Manufacture date	Country Code	Product Brand	Date Formate
2	28-JAN-US Laptop	Dell	1000	30	Electronics	\$1000.00	Electronics	28-JAN	US	Dell Laptop	28-Jan-25
3	15-FEB-US Sneakers	Nike	80	15	Fashion	\$80.00	Fashion	15-FEB	US	Nike Sneakers	15-Feb-25
4	03-MAR-US Coffee Maker	Keurig	130	40	Kitchen	\$130.00	Kitchen	03-MAR	US	Keurig Coffee Maker	3-Mar-25
5	11-APR-US Smartphone	Samsung	900	25	Electronics	\$900.00	Electronics	11-APR	US	Samsung Smartphone	11-Apr-25
6	22-MAY-US Backpack	North Face	70	20		\$70.00	Outdoor	22-MAY	US	North Face Backpack	22-May-25
7	07-JUN-UK Headphones	Sony	45	45	Electronics	\$298.00	Electronics	07-JUN	UK	Sony Headphones	7-Jun-25
8	19-JUL-UK T-shirt	Adidas	30	5	Fashion	\$30.00	Fashion	19-JUL	UK	Adidas T-shirt	19-Jul-25
9	23-AUG-UK Blender	Ninja	90	35	Kitchen	\$90.00	Kitchen	23-AUG	UK	Ninja Blender	23-Aug-25
10	05-SEP-UK Tablet	Apple	500	50	Electronics	\$500.00	Electronics	05-SEP	UK	Apple Tablet	5-Sep-25
11	14-OCT-UK Hiking Boots	Timberland	130	10	Outdoor	\$130.00	Outdoor	14-OCT	UK	Timberland Hiking Boots	14-Oct-25
12	17-JUN-IN Laptop	HP	950	25	Electronics	\$950.00	Electronics	17-JUN	IN	HP Laptop	17-Jun-25
13	25-NOV-AU Sneakers	Adidas	90	40		\$90.00	Fashion	25-NOV	AU	Adidas Sneakers	25-Nov-25
14	08-DEC-DE Coffee Maker	Nespresso	120	35		\$120.00	Kitchen	08-DEC	DE	Nespresso Coffee Make	8-Dec-25
15	18-FEB-CA Smartwatch	Fitbit	150	15	Electronics	\$150.00	Electronics	18-FEB	CA	Fitbit Smartwatch	18-Feb-25
16	16-APR-ES headphones	Bose	250	20	Electronics	\$250.00	Electronics	16-APR	ES	Bose headphones	16-Apr-25
17	21-AUG-CA Laptop Bag	Samsontite	50	35	Accessories	\$50.00	Accessories	21-AUG	CA	Samsontite Laptop Bag	21-Aug-25
18	20-AUG-CN Smartwatch	Huawei	160	15	Electronics	\$160.00	Electronics	20-AUG	CN	Huawei Smartwatch	20-Aug-25
19	27-JAN-IT Laptop	Asus	980	10	Electronics	\$980.00	Electronics	27-JAN	IT	Asus Laptop	27-Jan-25
20	01-MAR-UK Sunglasses	Oakley	150	15	Fashion	\$150.00	Fashion	01-MAR	UK	Oakley Sunglasses	1-Mar-25
21	14-AUG-US Camping Tent	Coleman	10	10	Outdoor	\$298.00	Outdoor	14-AUG	US	Coleman Camping Tent	14-Aug-25
22	14-MAY-RU Camera	Nikon	700	50	Electronics	\$700.00	Electronics	14-MAY	RU	Nikon Camera	14-May-25
23	09-JAN-CA Microwave	Panasonic	80	20	Kitchen	\$80.00	Kitchen	09-JAN	CA	Panasonic Microwave	9-Jan-25
24	19-JUL-BR Fitness Tracker	Xiaomi	150	30		\$150.00	Electronics	19-JUL	BR	Xiaomi Fitness Tracker	19-Jul-25
25	29-SEP-CA Smartphone	Google	800	45	Electronics	\$800.00	Electronics	29-SEP	CA	Google Smartphone	29-Sep-25
26	03-JUN-CA Sunglasses	Ray-Ban	25	25	Fashion	\$298.00	Fashion	03-JUN	CA	Ray-Ban Sunglasses	3-Jun-25
27	11-JUL-CA Blender	Vitamix	400	40	Kitchen	\$400.00	Kitchen	11-JUL	CA	Vitamix Blender	11-Jul-25