Myntra Case Study

Presented by: Shivani Awasthi

Order of Business

Data Cleaning and Preparation

- Check for duplicate values in your dataset and remove them.
- Standardize the "DiscountOffer" column to a single format, ensuring all values are uniform.
- Identify rows where both "DiscountPrice" and "DiscountOffer" are null and fill the "DiscountPrice" with the average discount price of the respective category.
- Replace all null values in the "SizeOption" column with the text "Not Available."

Data Analysis

- Calculate the overall average original price for products with ratings greater than 4
- Count the number of products with a discount offer greater than 50% OFF.
- Count the number of products available in size "M.“
- Create a new column to label the products as "High Discount" if the discount offer is greater than 50% OFF, otherwise label them as "Low Discount."

Data Retrieval

- Use VLOOKUP/XLOOKUP to find the product brand, price, and rating of the product with Product_id "11226634".
- Find the "DiscountPrice" for the product with the Product ID "6744434" using the INDEX and MATCH functions.
- Utilize nested xlookup to find any column’s detail of a product with it’s product id.

DATA CLEANING AND PREPARATION

Problem 1 Check for duplicate values in your dataset and remove them.

Resolution: There are no duplicates found.

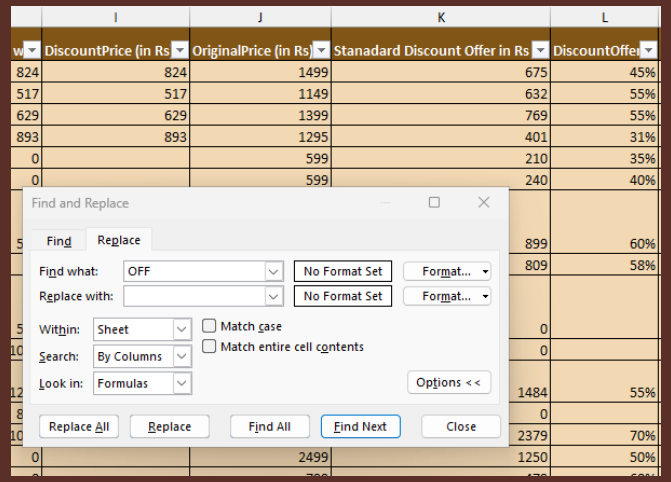
harbour	0		599	
nder me	599	599	1499	
pink em	0		1395	
er wom			1098	
ow men			2749	
hrithik r			2699	
er men	883		699	
utee wo	1019	1019	3399	
a wome	0		2499	
er wom	0		799	
nder me	516	516	1099	
h wome	696	696	1699	
a wome	776		3999	
talkies w	0		2149	
erry wo	0		999	

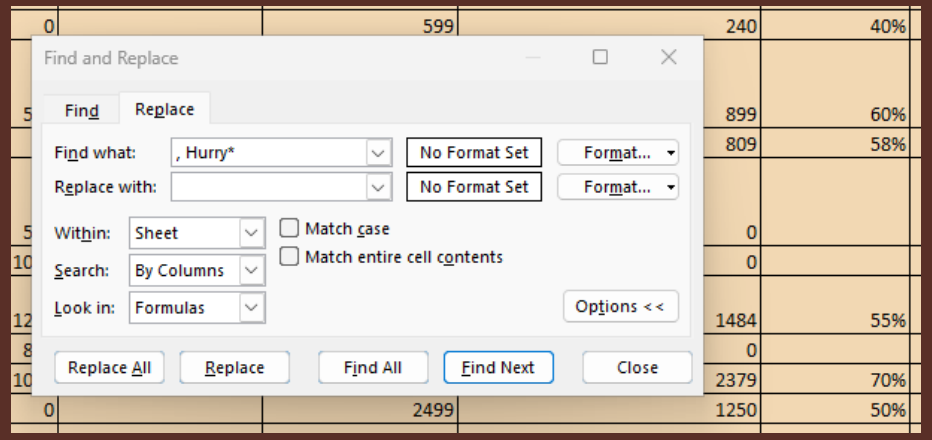
DATA CLEANING AND PREPARATION

Problem 2 Standardize the "DiscountOffer" column to a single format, ensuring all values are uniform.

Resolution: I have followed the following steps to standardize the DiscountOffer to a single format i.e. in “Rs.”:

- Step1: Cleaned the Values “OFF” and “Hurry*” using “***Find and Replace***”



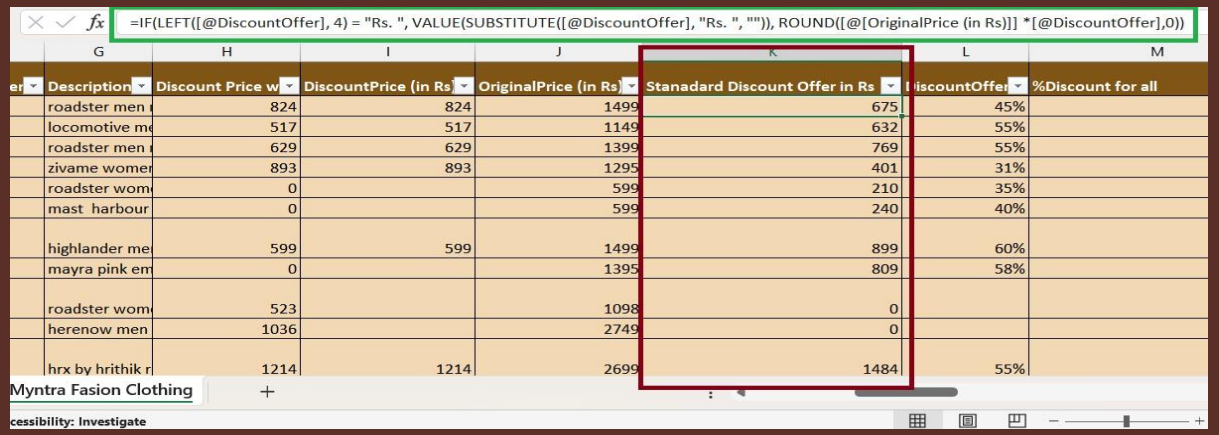


DATA CLEANING AND PREPARATION

Continue Problem 2 Standardize the "DiscountOffer" column to a single format, ensuring all values are uniform.

- Step 2: Inserted a new cell for standard values with below formula:

=IF(LEFT([@DiscountOffer], 4) = "Rs. ",
VALUE(SUBSTITUTE([@DiscountOffer], "Rs. ", "")),
ROUND([@[OriginalPrice (in Rs)]] *[@DiscountOffer],0))



DATA CLEANING AND PREPARATION

Problem 3 Identify rows where both "DiscountPrice" and "DiscountOffer" are null and fill the "DiscountPrice" with the average discount price of the respective category.

Resolution: Created a new column with the below formula where:

- I have first looked for the blank value in Discount price and discount offer,
- Then used Average function to fill the value in blank discount price
- I have then round of the value to get the whole numbers

=IF(AND(ISBLANK([@[DiscountPrice (in Rs)]]), [@[Stanadard Discount Offer in Rs]] = 0), ROUND(AVERAGEIFS(I:I,D:D,[@Category]),0), [@[DiscountPrice (in Rs)]])

=IF(AND(ISBLANK([@[DiscountPrice (in Rs)]]), [@[Stanadard Discount Offer in Rs]] = 0), ROUND(AVERAGEIFS(I:I,D:D,[@Category]),0), [@[DiscountPrice (in Rs)]])

D	E	F	G	H	I	J	K	L	M
Category	Individual_category	category_by_Ge	Description	Discount Price w	DiscountPrice (in Rs	OriginalPrice (in Rs)	Stanadard Discount Offer in Rs	DiscountOffer	%Discount for all
Bottom Wea	jeans	Men	roadster men	824	824	1499	675	45%	
Bottom Wea	track-pants	Men	locomotive m	517	517	1149	632	55%	
Topwear	shirts	Men	roadster men	629	629	1399	769	55%	
Lingerie & Sl	shapewear	Women	zivame wome	893	893	1295	401	31%	
Western	tshirts	Women	roadster wom	0		599	210	35%	
Western	tops	Women	mast harbou	0		599	240	40%	
Bottom Wea	trousers	Men	highlander m	599	599	1499	899	60%	
Western	tops	Women	mayra pink er	0		1395	809	58%	
Western	tshirts	Women	roadster wom	523		1098	0		
Bottom Wea	jeans	Men	herenow men	1036		2749	0		
Sports Wear	tights	Men	hrx by hrithik	1214	1214	2699	1484	55%	

DATA CLEANING AND PREPARATION

Problem 4 Replace all null values in the "SizeOption" column with the text "Not Available."

Resolution: There are no null or blank values found in the “SizeOption” Column. I have used find option and then also tested with the below formula:

=IF(COUNT(ISBLANK(O:O)) = 0, "No null values found", "Null values found")

=IF(COUNT(ISBLANK(O:O)) = 0, "No null values found", "Null values found")

	O	P	Q	R	S	T
	SizeOption	Ratings	Reviews			
	28, 30, 32, 34, 36	3.9	999			
	S, M, L, XL	4	999			
	38, 40, 42, 44, 46, 48	4.3	999		No null values found	
	S, M, L, XL, XXL	4.2	999			
	XS, S, M, L, XL	4.2	999			
	XS, S, M, L, XL	4.4	999			

DATA ANALYSIS

Problem 1 Calculate the overall average original price for products with ratings greater than 4

Resolution: Calculated average using “AVERAGEIF” function as shown below:

=ROUND(AVERAGEIF(P:P, ">=4", J:J), 0)

=ROUND(AVERAGEIF(P:P, ">=4", J:J), 0)

	O	P	Q	R	S	T
	SizeOption	Ratings	Reviews			
	28, 30, 32, 34, 36	3.9	999			
	S, M, L, XL	4	999			
	38, 40, 42, 44, 46, 48	4.3	999		No null values found	
	S, M, L, XL, XXL	4.2	999			
	XS, S, M, L, XL	4.2	999			
	XS, S, M, L, XL	4.4	999			
	30, 32, 34, 36	3.9	998		Overall average original price for products with ratings greater than 4	1837

DATA ANALYSIS

Problems 2 Count the number of products with a discount offer greater than 50% OFF.

Resolution: Please refer the below steps:

i. Created a new column *"%Discount for all"* to get original % from "Standard Discount Offer in rs" column by using below formula: **=([@[Stanadard Discount Offer in Rs]] / [@[OriginalPrice (in Rs)]])**

M2 | =([@[Stanadard Discount Offer in Rs]] / [@[OriginalPrice (in Rs)]])

	J	K	L	M
1	OriginalPrice (in Rs)	Stanadard Discount Offer in Rs	DiscountOffer	%Discount for all
2	1499	675	45%	45%
3	1149	632	55%	55%
4	1399	769	55%	55%
5	1295	401	31%	31%
6	599	210	35%	35%
7	599	240	40%	40%
8	1499	899	60%	60%
9	1395	809	58%	58%

ii. Now counted the product which has 50% or 50% plus off **=COUNTIF(M:M, ">=50%")**

T8 | =COUNTIF(M:M, ">=50%")

	M	P	Q	R	S	T
1	%Discount for all	Ratings	Reviews			
2	45%	3.9	999			
3	55%	4	999			
4	55%	4.3	999		No null values found	
5	31%	4.2	999			
6	35%	4.2	999			
7	40%	4.4	999			
8	60%	3.9	998		Count the number of products with a discount offer greater than 50% OFF	38978
9	58%	3.7	998			
10	0%	4.3	997			

DATA ANALYSIS

Problem 3 Count the number of products available in size "M.“

Resolution: Counted the value using below formula

=COUNTIF(O:O,"*M*")

=COUNTIF(O:O,"*M*")

N	SizeOption	Ratings	Reviews	R	S	T
	28, 30, 32, 34, 36	3.9	999			
	S, M, L, XL	4	999			
	38, 40, 42, 44, 46, 48	4.3	999		No null values found	
	S, M, L, XL, XXL	4.2	999			
	XS, S, M, L, XL	4.2	999			
	XS, S, M, L, XL	4.4	999			
	30, 32, 34, 36	3.9	998			
	S, M, L, XL	3.7	998			
	XS, S, M, L, XL	4.3	997			
	28, 30, 32, 34, 36	3.5	996			
	S, M, L, XL, XXL	4.4	996		Count the number of products available in size "M."	39205
	XS, S, M, L, XL, XXL, 3XL, 4XL	4.1	996			
	S, M, L, XL, XXL	4.2	996			
	XS, S, M, L, XL	4.3	996			
	XS, S, M, L, XL	4	996			

DATA ANALYSIS

Problem 4 Create a new column to label the products as "High Discount" if the discount offer is greater than 50% OFF, otherwise label them as "Low Discount."

Resolution: Used the below formula to provide a label based on discount offer:

=IF(NOT([@[%Discount for all]] = 0),IF([@[%Discount for all]]>=50%, "High Discount", "Low Discount"), "No Discount")

=IF(NOT([@[%Discount for all]] = 0),IF([@[%Discount for all]]>=50%, "High Discount", "Low Discount"), "No Discount")

K	L	M	N	
ard Discount Offer in Rs	DiscountOffer	%Discount for all	Discount Status	SizeO
675	45%	45%	Low Discount	28, 30
632	55%	55%	High Discount	S, M, L
769	55%	55%	High Discount	38, 40
401	31%	31%	Low Discount	S, M, L
210	35%	35%	Low Discount	XS, S,
240	40%	40%	Low Discount	XS, S,
899	60%	60%	High Discount	30, 32
809	58%	58%	High Discount	S, M, L
0		0%	No Discount	XS, S,
0		0%	No Discount	28, 30
1484	55%	55%	High Discount	S, M, L
0		0%	No Discount	XS, S,
2379	70%	70%	High Discount	S, M, L

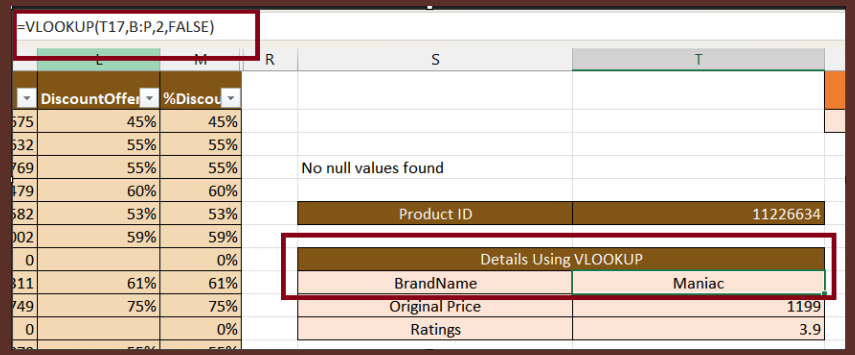
DATA RETRIEVAL AND LOOKUP

Problem 1 Use VLOOKUP/XLOOKUP to find the product brand, price, and rating of the product with Product_id "11226634".

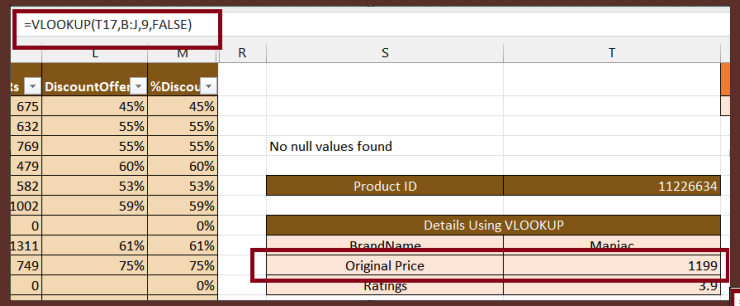
Resolution: I have tried with both. Please refer the below formulas and snapshots:

Using VLOOKUP

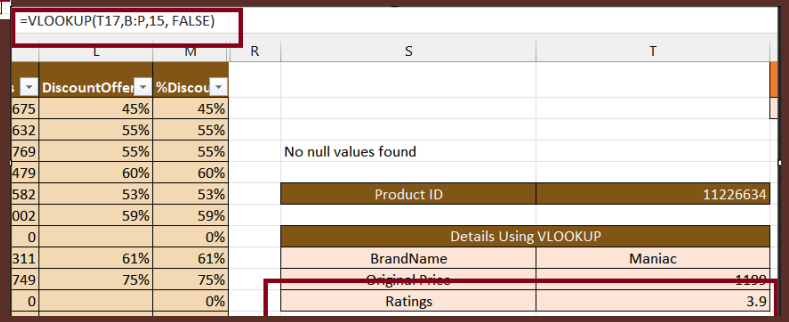
Brand: **=VLOOKUP(T17,B:P,2,FALSE)**



Original Price: **=VLOOKUP(T17,B:J,9,FALSE)**



Rating: **=VLOOKUP(T17,B:P,15, FALSE)**



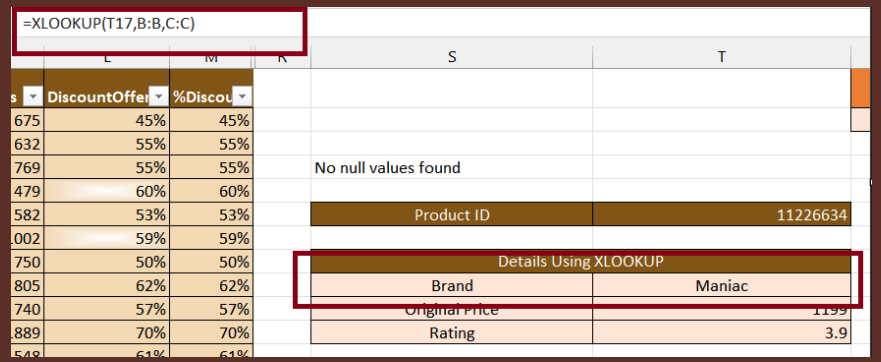
DATA RETRIEVAL AND LOOKUP

Problem 1 Use VLOOKUP/XLOOKUP to find the product brand, price, and rating of the product with Product_id "11226634".

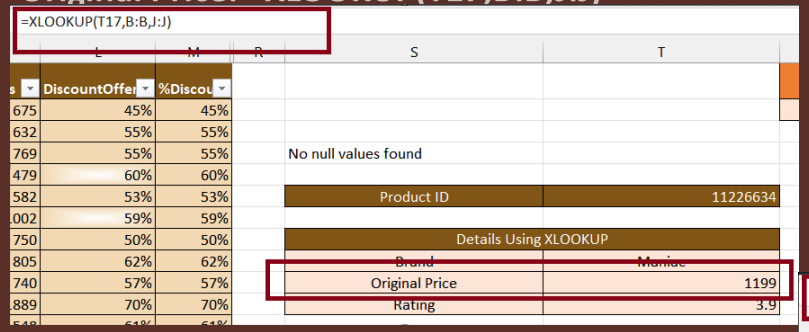
Resolution: I have tried with both. Please refer the below formulas and snapshots:

Using XLOOKUP

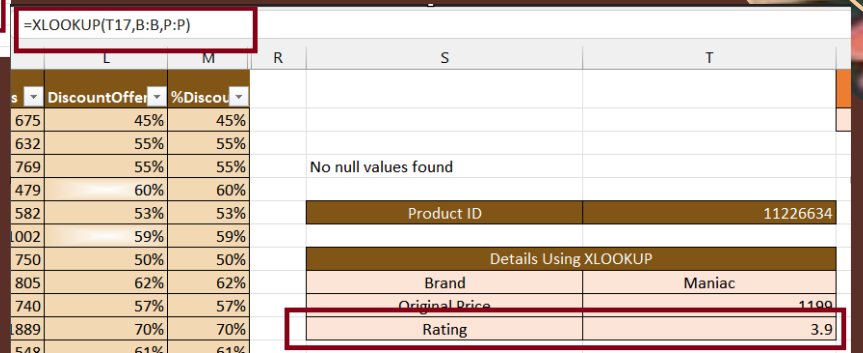
Brand: =XLOOKUP(T17,B:B,C:C)



Original Price: =XLOOKUP(T17,B:B,J:J)



Rating: =XLOOKUP(T17,B:B,P:P)



DATA RETRIEVAL AND LOOKUP

Problem 2 Find the "DiscountPrice" for the product with the Product ID "6744434" using the INDEX and MATCH functions.

Resolution: Please refer the below formula:

=INDEX(H:H,MATCH(T31,B:B,0))

=INDEX(H:H,MATCH(T31,B:B,0))

O	P	Q	R	S	T
SizeOption	Ratings	Reviews			
XS, S, M, L, XL, XXL, 3XL	4	990			
26, 28, 30, 32, 34, 36	4.3	990			
L, M, S, XS, XL	4.2	990			
S, M, L, XL, XXL	4.4	990			
S, M, L, XL, XXL	4.3	990			
XS, S, M, L, XL	4.3	990			
XS, S, M, L, XL	4.1	990			
Onesize	4.2	989			
S, M, L, XL	4.3	989			
28, 30, 32, 34, 36, 38	4	988			

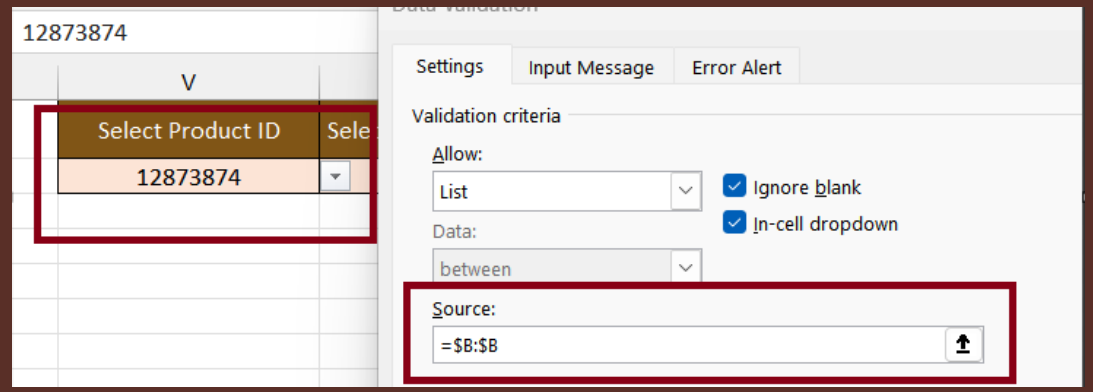
Product ID	6744434
Discount Price	599

DATA RETRIEVAL AND LOOKUP

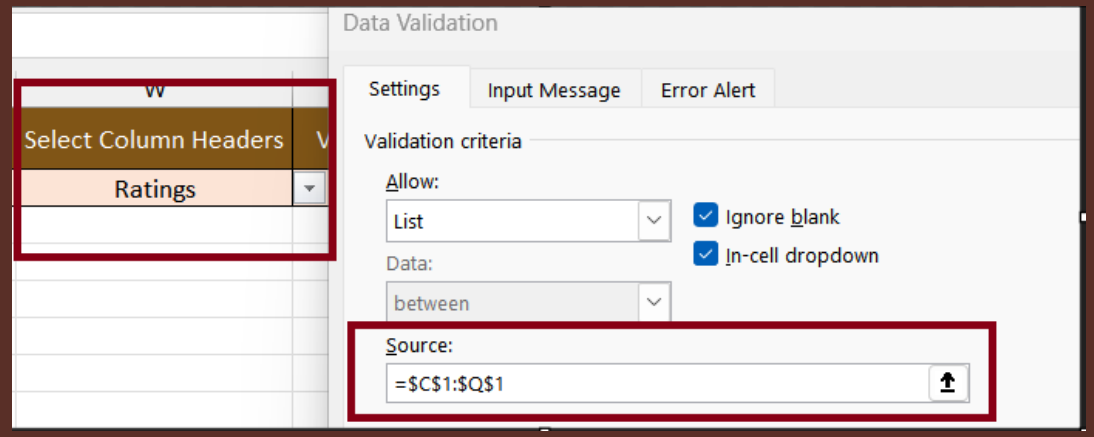
Problem 3 Utilize nested xlookup to find any column's detail of a product with it's product id.

Resolution: I have achieved it with 3 steps. Please refer the details below:

I. Created a list of "EmployeeID" using data validation



II. Created a list of "Column Headers" using data validation



DATA RETRIEVAL AND LOOKUP

Continue Problem 3 Utilize nested xlookup to find any column's detail of a product with it's product id.

Resolution: Please refer the below step 3:

III. Used that list in nested XLOOKUP formula to get dynamic value for any columns:
=XLOOKUP(V2,B:B,XLOOKUP(W2,Table1[[#Headers],[Product_id]:[Reviews]],B:Q))

=XLOOKUP(V2,B:B,XLOOKUP(W2,Table1[[#Headers],[Product_id]:[Reviews]],B:Q))

V	W	X
Select Product ID	Select Column Headers	Value using Nested XLOOKUP
12873874	Ratings	4.2


Myntra
Thank You
Presented by: Shivani Awasthi