

Day 73

DIY

Q1. Problem Statement: Data Blending

Use the given dataset *first_half.xlsx*, *second_half.xlsx* and load it into a tableau workbook, then solve asked questions using different charts and graphs. The following are the tasks to be taken into consideration while constructing worksheets for given tasks.

1. Load the given datasets into a tableau workbook as a separate data source
2. Select the first half as the primary source and give a relationship between both tables based on common columns
3. Find out from newly connected data which payment method is used in both half of the year for all cities.
4. Find out the rating for all products in both half of the year is more, given by gender diversity and compare them by bar plot
5. Figure out which half have more gross income from different product types

Q2. Problem Statement: Joins and unions

Use the given dataset *Auther.xlsx*, *book_name.xlsx*, and *Edition.xlsx*, load them into a tableau workbook, and solve asked questions using different charts and graphs. The following are the tasks to be taken into consideration while constructing worksheets for given tasks. (create a new workbook)

1. Load the given datasets into a tableau workbook
2. Create a relationship between all tables based on common fields using the join

operation

- Find out how many hours the writer spends writing a book per week.
- Find out the price of each book and visualize using their name and price using the bar chart
- Find out the total length of each book using a bar chart and plot them by their name and length

Dataset:

Two data files are given in Q1, and both contain the same column structure but from the other half of the year as per their name.

- In the dataset, there is a “city” column containing three different cities.
- Other columns containing price-related data are in a dollar
- The “Payment” column represents which method they used for the transaction

Invoice ID	Branch	City	Customer	Gender	Product line	Unit price	Quantity	Tax 5%	Total	Payment	cogs	gross margin pe	gross income	Rating
226-31-3081	C	Naypyitaw	Normal	Female	Electronic accessories	15.28	5	3.82	80.22	Cash	76.4	4.761904762	3.82	9.6
373-73-7910	A	Yangon	Normal	Male	Sports and travel	86.31	7	30.2085	634.3785	Ewallet	604.17	4.761904762	30.2085	5.3
665-32-9167	A	Yangon	Member	Female	Health and beauty	36.26	2	3.626	76.146	Credit card	72.52	4.761904762	3.626	7.2
529-56-3974	B	Mandalay	Member	Male	Electronic accessories	25.51	4	5.102	107.142	Cash	102.04	4.761904762	5.102	6.8
365-64-0515	A	Yangon	Normal	Female	Electronic accessories	46.95	5	11.7375	246.4875	Ewallet	234.75	4.761904762	11.7375	7.1
252-56-2699	A	Yangon	Normal	Male	Food and beverages	43.19	10	21.595	453.495	Ewallet	431.9	4.761904762	21.595	8.2
656-95-9349	A	Yangon	Member	Female	Health and beauty	68.93	7	24.1255	506.6355	Credit card	482.51	4.761904762	24.1255	4.6
319-50-3348	B	Mandalay	Normal	Female	Home and lifestyle	40.3	2	4.03	84.63	Ewallet	80.6	4.761904762	4.03	4.4
649-29-6775	B	Mandalay	Normal	Male	Fashion accessories	33.52	1	1.676	35.196	Cash	33.52	4.761904762	1.676	6.7
189-17-4241	A	Yangon	Normal	Female	Fashion accessories	87.67	2	8.767	184.107	Credit card	175.34	4.761904762	8.767	7.7
640-49-2076	B	Mandalay	Normal	Male	Sports and travel	83.78	8	33.512	703.752	Cash	670.24	4.761904762	33.512	5.1
232-16-2483	C	Naypyitaw	Member	Female	Sports and travel	68.12	1	3.406	71.526	Ewallet	68.12	4.761904762	3.406	6.8
129-29-8530	A	Yangon	Member	Male	Sports and travel	62.62	5	15.655	328.755	Ewallet	313.1	4.761904762	15.655	7
354-25-5821	B	Mandalay	Member	Female	Sports and travel	69.12	6	20.736	435.456	Cash	414.72	4.761904762	20.736	5.6
132-32-9879	B	Mandalay	Member	Female	Electronic accessories	93.96	4	18.792	394.632	Cash	375.84	4.761904762	18.792	9.5
669-54-1719	B	Mandalay	Member	Male	Electronic accessories	18.93	6	5.679	119.259	Credit card	113.58	4.761904762	5.679	8.1
162-48-8011	A	Yangon	Member	Female	Food and beverages	44.59	5	11.1475	234.0975	Cash	222.95	4.761904762	11.1475	8.5
242-55-6721	B	Mandalay	Normal	Male	Home and lifestyle	16.16	2	1.616	33.936	Ewallet	32.32	4.761904762	1.616	6.5
635-40-6220	A	Yangon	Normal	Male	Health and beauty	89.6	8	35.84	752.64	Ewallet	716.8	4.761904762	35.84	6.6
120-06-4233	C	Naypyitaw	Normal	Male	Electronic accessories	30.61	6	9.183	192.843	Cash	183.66	4.761904762	9.183	9.3
838-78-4295	C	Naypyitaw	Normal	Female	Health and beauty	33.47	2	3.347	70.287	Ewallet	66.94	4.761904762	3.347	6.7
109-28-2512	B	Mandalay	Member	Female	Fashion accessories	97.61	6	29.283	614.943	Ewallet	585.66	4.761904762	29.283	9.9
796-12-2025	C	Naypyitaw	Normal	Male	Fashion accessories	62.12	10	31.06	652.26	Cash	621.2	4.761904762	31.06	5.9
841-35-6630	C	Naypyitaw	Normal	Female	Electronic accessories	75.91	6	22.773	478.233	Cash	455.46	4.761904762	22.773	8.7
263-10-3913	C	Naypyitaw	Member	Male	Fashion accessories	49.04	9	22.068	463.428	Credit card	441.36	4.761904762	22.068	8.6
381-20-0914	A	Yangon	Member	Female	Fashion accessories	20.01	9	9.0045	189.0945	Credit card	180.09	4.761904762	9.0045	5.7

In Q2, three datasets are given Author, book_name, and Edition. Unlike Q1, all datasets contain different data and combine all data and find meaningful insights using joint operation.

- The “Auther” table contains data of authors and their personal details and how much time they spent writing a book.
- The “book_name “ table contains data Book name, their author id, and book id.
- The “Edition” table contains data related to publication, price, and book format.

Dataset sample

1.Auther.xlsx,

AuthID	First Name	Last Name	Birthday	Country of Residence	Hrs Writing per Day
AS443	Abraham	Stackhouse	01-07-2147	Norway	6
AW980	Amelia	Wangerin,	26-03-2141	New Zealand	16
AI923	Anastasia	Inez	30-03-2148	New Zealand	11
AM329	Arthur	McCrumb	13-03-2148	New Zealand	3
AH957	Arturo	Hijuelos	09-01-2129	United Kingdom	8
BH149	Bernard	Hopf	27-11-2122	United States	1
BT132	Bianca	Thompson	28-01-2150	United States	5
BL857	Bravig	Lewisohn	21-01-2238	United States	11
BM856	Burton	Malamud	18-01-2145	Brazil	6
CS190	Carolyn	Segal	24-09-2133	United States	7
CF829	Charles	Fenimore	18-03-2120	Norway	7
CW626	Clifford	Wolitzer	01-08-2143	United Kingdom	8
DF413	Darryl	Fleischman	07-12-2131	Germany	16
DB605	David	Beam	26-02-2157	United States	5.13
EH487	Elizabeth	Herbach	22-01-2157	New Zealand	0
EK605	Elmer	Komroff	11-07-2129	Norway	6
GG800	Gloria	Green	19-09-2156	Hong Kong	8
GH671	Grace	Harrison	08-04-2161	United States	6
HM751	Hamlin	Myrer	29-01-2225	Brazil	9
HB302	Hillary	Barnhardt	07-03-2154	New Zealand	4
JH502	Jill	Hergesheim	15-06-2156	Canada	8
JS525	John W.	Spanogle	10-08-2149	United Kingdom	10
JK592	Jonathan	Kotzwinkle	03-02-2151	Germany	6
KY296	Kathy	Yglesias	03-04-2151	Brazil	8
KD840	Kenneth	Douglas	24-09-2163	South Africa	3
KE397	Kris	Elegant	26-08-2149	Hong Kong	5

2.book_name.xlsx

BookID	Title	AuthID
BB194	Ballinby Bo	AM329
NC652	Nothing Bu	AS443
AD222	Alanna Sav	BH149
PA169	Post Alley	BM856
TC188	Thatchwor	BM856
ZT703	Zero over	BM856
PP866	Portmeiric	BT132
RR774	Rystwyth	BT132
TM925	The Maller	BT132
CH391	Can I Be H	CF829
NL209	No More L	CF829
NR695	9803 Nort	CS190
TH296	The Winch	CS190
MM424	(im)Mortal	CW626
TP887	the life and	DB605
LS176	Land Wate	EH487
AY135	And I Said	EK605
IA439	Interroban	EK605
KA663	Kalakalal	EK605
BF889	Banana Slu	GG800
NB483	Not to Go	GG800
TI225	The Thing	GG800
CP573	Concerning	GH671
BC244	Banana Slu	HB302
BF374	Banana Slu	HB302
CC830	Cimornul	JH502

3. Edition.xlsx

ISBN	BookID	Format	PubID	Publication Date	Pages	Print Run Size (k)	Price
989-28-79	TT359	Hardcover	ESP	02-06-2178	277	15	27.99
989-28-65	NP937	Hardcover	PP	18-08-2178	394	6	30.99
989-28-79	PA169	Hardcover	PP	08-09-2178	384	10	27.99
989-28-79	TM925	Graphic	ESP	15-09-2178	187	8	23.99
989-28-65	HS107	Hardcover	PP	29-09-2178	640	3	26.99
989-28-79	DR914	Mass market pape	ESP	05-01-2179	575	4	8.99
989-28-65	HS107	Trade paperback	PP	12-01-2179	631	5	15.99
989-28-79	TT359	Mass market pape	ESP	16-02-2179	264	25	8.99
989-28-79	AY135	Hardcover	ESP	24-04-2179	704	15	27.99
989-28-79	BB194	Hardcover	ESP	18-05-2179	401	10	21.5
989-28-79	TI225	Mass market pape	ESP	13-07-2179	452	15	8.99
989-28-79	PA169	Trade paperback	PP	07-09-2179	356	16	12.5
989-28-65	NP937	Trade paperback	PP	18-04-2180	371	6	15.99
989-28-79	SS361	Hardcover	ESP	25-07-2180	105	14	27.99
989-28-65	NC652	Hardcover	PP	12-09-2180	390	4	32.99
989-28-37	HP265	Paperback	CHP	06-03-2181	28	18	7.99
989-28-79	SS361	Trade paperback	ESP	03-07-2181	105	20	12.5
989-28-79	NR695	Hardcover	ESP	10-07-2181	384	5	22.99
989-28-79	NB483	Mass market pape	ESP	26-07-2181	311	22	8.99
989-28-22	TS869	Mass market pape	SSC	11-12-2181	381	11	9.5

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