UnPivot to Convert Cross Tabulated Data Tables into Proper Data Set:

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1. Goal is to take a table of cross tabulated data and convert it to a Proper Data Set using the UnPivot Feature so we can use data analysis tools such as Sort and PivotTables, as seen in this picture:

Example 3: UnPivot to Convert Cross Tabulated Data Tables into Proper Data Set

Class/Grades										
Student	Busn 216 💌	Busn135 💌	Busn218 💌	BI 348 💌	Math 148 💌	Math 111 💌	Busn 210 💌	First record in p	oroper dat	a set:
Abdi Hyde	3.7	3	3.9	3.6	2.4	3	2.6	Student	Class (Grade
Tyrone Lord	3.6	3.4	4	3.6	3.4	4	3.1	 Abdi Hyde	Busn 216	3.7
Tawanda Redmon	3.8	3.5	3.7	3.8	3.8	3.6	3.6	Abdi Hyde	Busn135	3
Earnestine Graff	3.9) 4	1.7	2.9	3.1	2.6	3	Abdi Hyde	Busn218	3.9
Zena Pelletier	2.1	1.1	2.3	0.5	3.2	1.9	0.8	Abdi Hyde	BI 348	3.6
Flois Foss	3.8	3,1	2.8	3	0.1	2.6	1.6	Abdi Hyde	Math 148	2.4
Marinda Hairston	2.9	0.3	3.3	3	2.7	2.8	3.1	Abdi Hyde	Math 111	3
Thea Marvin	1.8	1.9	0.6	2.2	1.7	3.4	3.1	Араї нуде	Bush 210	2.0
Carl Hsu	3.5	3.4	3.1	3.3	2.6	2.4	2.8	144		
Dion Mattos	3.7	7 3	2	3.2	4	2.9	2.1	When you UnPi	vot into p	roper
Shonda Whitmore	2.7	2.9	3.2	2.5	4	0.7	2.7	data set, then y	ou can us	e data
Laveta Turney	3.3	3.6	0.5	2.9	2.4	2	3.1	ananysis tasks s	such as So	rt:
Beula Harwood	2.6	3.3	3	2.4	2.5	2.2	3.5	-	and the second s	
Adria Wall	2.8	4	3	0.9	2.9	3	3.4	Student	Class 🚽	Grade 💌
Nadene Lantz	2	3.3	0.5	2.4	3	3.7	2.2	Gigi Espinal	BI 348	3.9
Delma Fortner	3.4	3.5	2.6	3.5	3.1	3.2	0.1	Tawanda Redmon	BI 348	3.8
Shalanda Mcadams	3.1	3	2.7	0.6	2.5	0.5	2.8	Abdi Hyde	BI 348	3.0
Harriette Cloutier	2.2	2 4	3	2.4	2.5	2.2	2.1	Delma Fortner	BI 2/19	2.5
Hang Lancaster	2.6	2.5	3.6	0.9	3	3	1.1	Kenton Reardon	BI 348	3.5
Kenton Reardon	3.7	7 3	2.6	3.5	3.3	3	2.8	Luciano Neville	BI 348	3.5
Lizabeth Solis	2.6	2.8	0	3.4	2.4	1.5	3.8	Lizabeth Solis	BI 348	3.4
Luciano Neville	3.7	1.1	3.6	3.5	0.1	2.7	2.8	Carl Hsu	BI 348	3.3
Gigi Espinal	1.3	2.7	1.8	3.9	3.9	2.9	2	Dion Mattos	BI 348	3.2
Alethea Rodrigues	2.6	3.2	2.8	2.7	0.7	1.2	0	Elois Foss	BI 348	3
Veta Meija	2.3	3.2	3.5	2.6	3.7	3.4	2.6	Marinda Hairston	BI 348	3
		1	0.0					Earnestine Graff	BI 348	2.9
								Laveta Turney	BI 348	2.9

- 2. Idea Behind UnPivot is that you take the first record of the cross tabulated table and create multiple new records for the student listed in the first column.
 - From the Grade for Busn 216, you create a new record with the three fields: Student, Class and Grade:

Student/Quantitative Class 💌	Busn 216 💌	Busn135 👻	Busn218		S
Abdi Hyde	3.7	3	3.9		A
Tyrone Lord	3.6	3.4	4	into:	

Student	Class	Grade
Abdi Hyde	Busn 216	3.7
· · · · · · · · · · · · · · · · · · ·		

• From the Grade for Busn 135, you create a new record with the three fields: Student, Class and Grade:

Student/Quantitative Class	🝷 Busn 216 🝷	Busn135 -	Busn218 🗸		Student	Class	Grade
Abdi Hyde	3.7	3	3.9		Abdi Hyde	Busn 216	3.7
Tyrone Lord	3.6	3.4	4	into:	Abdi Hyde	Busn135	3

• You continue creating records until you have the same number of records as there are columns that are being unpivoted:

Student	Class	Grade	
Abdi Hyde	Busn 216	3.7	
Abdi Hyde	Busn135	3	Same Number of
Abdi Hyde	Busn218	3.9	Records as there
Abdi Hyde	BI 348	3.6	are Columns
Abdi Hyde	Math 148	2.4	being UnPivoted
Abdi Hyde	Math 111	3	
Abdi Hyde	Busn 210	2.6	

• To UnPivot a cross tabulated table, select the fields that will not be UnPivoted, then use the "Unpivot Other Columns" command, as shown here:

File Home Transform Add Colur Image: Strate StrateS	mn View Type: Any * etect Data Ty ename	pe J	2 Replace Values 9 Fill ▼ 19 Pivot Column Any Column	Unpivo	t Columns Vot Columns vot Columns vot Other Columns vot Only Selected Colu	umns	Merge Columns	∑ ∑ Statisti	s Standard Scient	2 Trig 300 Rou ific III Info Column
Queries [1]	<	×	\checkmark f_X	= Excel.Cu	rrentWorkbook(){[[Name="G	radeTable"]}[Conter	nt]		
			ABC 123 Student		ABC 123 Busn 216		ABC 123 Busn135		ABC Busn218	
		1	Abdi Hyde			3.7		3		3.9
		2	Tyrone Lord			3.6		3.4		4
		3	Tawanda Redmor	1		3.8		3.5		3.7
										4.7

3. Once we have a proper data set, we can use data analysis tools like Sort and PivotTable:

StudentClassIGradeYAbdi HydeBi 3483.6Chantel MimsTyrone LordBi 3483.6Shihara D.Tawanda RedmonBi 3483.8Tawanda RedmonEarnestine GraffBi 3482.9Tyrone LordZena PelletierBi 3480.5Jabari TurneyElois FossBi 3483Tea MarvinMarinda HairstonBi 3483.3Earnestine GraffDion MattosBi 3483.3Earnestine GraffDion MattosBi 3483.2Carl HsuShonda WhitmoreBi 3483.2Carl HsuShonda WhitmoreBi 3483.7Adria WallBeula HarwoodBi 3480.9Delma FortnerNadene LantzBi 3480.9Delma FortnerNadene LantzBi 3480.6Marinda HairstonHarriette CloutierBi 3480.6Marinda HairstonHarriette CloutierBi 3480.4Elois FossLizabeth SolisBi 3483.5Lizabeth SolisShalanda McadamsBi 3483.6Marinda HairstonHarriette CloutierBi 3483.4Hang LancasterLizabeth SolisBi 3483.6Zena PelletierAbalanda McadamsBi 3483.6Zena PelletierAbalanda McadamsBi 3483.6Zena PelletierAbalanda McadamsBi 3483.6Zena PelletierAbalanda McadamsBi 3483.6Zena PelletierAbalhara D.<	Now we can Sort:				Now we can cre	ate a	a PivotTable:
StudentClassI GradeYStudentI Average of GraAbdi HydeBi 3483.6Chantel MimsTyrone LordBi 3483.6Shihara D.Tawanda RedmonBi 3483.8Tawanda RedmonEarnestine GraffBi 3482.9Tyrone LordZena PelletierBi 3482.9Jabari TurneyElois FossBi 3483Tea MarvinMarinda HairstonBi 3483Abdi HydeTea MarvinBi 3483.3Earnestine GraffMarinda HairstonBi 3483.3Earnestine GraffCarl HsuBi 3483.2Carl HsuShonda WhitmoreBi 3483.2Carl HsuShonda WhitmoreBi 3483.7Adria WallBeula HarwoodBi 3480.9Delma FortnerNadene LantzBi 3480.9Delma FortnerNadene LantzBi 3480.5Harriette CloutierShalanda McadamsBi 3480.6Marinda HairstonHarriette CloutierBi 3480.9Nadene LantzChantel MimsBi 348 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Abdi HydeBI 3483.6Chantel MimsTyrone LordBI 3483.6Shihara D.Tawanda RedmonBI 3483.8Tawanda RedmonEarnestine GraffBI 3482.9Tyrone LordZena PelletierBI 3480.5Jabari TurneyElois FossBI 3483Tea MarvinMarinda HairstonBI 3483Abdi HydeTea MarvinBI 3483.3Earnestine GraffDion MattosBI 3483.2Carl HsuShonda WhitmoreBI 3483.2Carl HsuShonda WhitmoreBI 3483.7Adria WallBeula HarwoodBI 3480.9Delma FortnerNadene LantzBI 3483.5Harriette CloutierShalanda McadamsBI 3480.9Nadene LantzChantel MimsBI 3483.5Harriette CloutierShalanda McadamsBI 3483.5Luciano NevilleHarriette CloutierBI 3483.5Lizabeth SolisShalanda McadamsBI 3483.5Lizabeth SolisShalanda McadamsBI 3483.5Lizabeth SolisShalanda McadamsBI 3483.5Lizabeth SolisBI 3483.5Lizabeth SolisBI 3483.5Shihara D.BI 3483.5Shalanda McadamsShalanda McadamsAlethea RodriguesBI 3483.5Lizabeth SolisBI 3483.5Lizabeth SolisBI 3483.5Lizabeth SolisBI 348 <t< th=""><th>Student 💌</th><th>Class 🚽</th><th>Grade 💌</th><th></th><th>Student</th><th>_+</th><th>Average of Grade</th></t<>	Student 💌	Class 🚽	Grade 💌		Student	_+	Average of Grade
Tyrone LordBI 3483.6Shihara D.Tawanda RedmonBI 3483.8Tawanda RedmonEarnestine GraffBI 3482.9Tyrone LordZena PelletierBI 3480.5Jabari TurneyElois FossBI 3483Tea MarvinMarinda HairstonBI 3483Abdi HydeTea MarvinBI 3483Abdi HydeCarl HsuBI 3483.2Carl HsuShonda WhitmoreBI 3483.2Carl HsuJabari TurneyBI 3483.7Adria WallBeula HarwoodBI 3482.4Beula HarwoodAdria WallBI 3480.9Delma FortnerNadene LantzBI 3483.5Harriette CloutierShalanda McadamsBI 3480.9Nadene LantzChantel MimsBI 3480.9Nadene LantzChantel MimsBI 3483.5Harriette CloutierShalanda McadamsBI 3483.5Lizabeth SolisLizabeth SolisBI 3483.5Lizabeth SolisShilara D.BI 3483.5Lizabeth SolisShilara D.BI 3483.5Lizabeth SolisShilara D.BI 3482.7Alethea RodriguesVeta MejiaBI 3482.6Zena PelletierAbdi HydeBi 3482.6Zena PelletierAbdi HydeBi 3482.6Zena PelletierAbdi HydeBi 3482.6Zena PelletierAbdi HydeBi 3482.6Zena Pelletier<	Abdi Hyde	BI 348	3.6		Chantel Mims		3.70
Tawanda RedmonBI 3483.8Tawanda RedmonEarnestine GraffBI 3482.9Tyrone LordZena PelletierBI 3480.5Jabari TurneyElois FossBI 3483Tea MarvinMarinda HairstonBI 3483Abdi HydeTea MarvinBI 3483Abdi HydeCarl HsuBI 3483.3Earnestine GraffDion MattosBI 3483.2Carl HsuShonda WhitmoreBI 3482.5Dion MattosJabari TurneyBI 3483.7Adria WallBeula HarwoodBI 3482.4Beula HarwoodAdria WallBI 3480.9Delma FortnerNadene LantzBI 3483.5Harriette CloutierShalanda McadamsBI 3480.6Marinda HairstonHarriette CloutierBI 3480.9Nadene LantzChantel MimsBI 3480.9Nadene LantzLizabeth SolisBI 3483.5Lizabeth SolisShilara D.BI 3483.5Lizabeth SolisShilara D.BI 3483.5Lizabeth SolisShilara D.BI 3482.6Zena PelletierAbdi HydeBi 3482.6Zena Pelletier <td>Tyrone Lord</td> <td>BI 348</td> <td>3.6</td> <td></td> <td>Shihara D.</td> <td></td> <td>3.69</td>	Tyrone Lord	BI 348	3.6		Shihara D.		3.69
Earnestine GraffBI 3482.9Tyrone LordZena PelletierBI 3480.5Jabari TurneyElois FossBI 3483Tea MarvinMarinda HairstonBI 3483Abdi HydeTea MarvinBI 3484Veta MejiaCarl HsuBI 3483.3Earnestine GraffDion MattosBI 3483.2Carl HsuShonda WhitmoreBI 3482.5Dion MattosJabari TurneyBI 3482.5Dion MattosJabari TurneyBI 3482.7Adria WallBeula HarwoodBI 3482.4Beula HarwoodAdria WallBI 3480.9Delma FortnerNadene LantzBI 3483.5Harriette CloutierShalanda McadamsBI 3480.6Marinda HairstonHarriette CloutierBI 3480.9Nadene LantzChantel MimsBI 3483.5Lizabeth SolisLizabeth SolisBI 3483.5Lizabeth SolisShilara D.BI 3483.5Lizabeth SolisShilara D.BI 3482.6Zena PelletierAbdi HydeBi 3482.6Zena PelletierAbdi HydeBi 3482.6Grand TotalYrone LordBi 3482.6Grand Total	Tawanda Redmon	BI 348	3.8		Tawanda Redmo	on	3.69
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Elois FossBI 3483Tea MarvinMarinda HairstonBI 3483Abdi HydeTea MarvinBI 3483Abdi HydeCarl HsuBI 3483.3Earnestine GraffDion MattosBI 3483.2Carl HsuShonda WhitmoreBI 3482.5Dion MattosJabari TurneyBI 3483.7Adria WallBeula HarwoodBI 3482.4Beula HarwoodAdria WallBI 3480.9Delma FortnerNadene LantzBI 3482.4Shonda WhitmoreDelma FortnerBI 3483.5Harriette CloutierShalanda McadamsBI 3480.6Marinda HairstonHarriette CloutierBI 3480.9Nadene LantzChantel MimsBI 3483.5Luciano NevilleHang LancasterBI 3483.4Elois FossLizabeth SolisBI 3483.9Shalanda McadamsAlethea RodriguesBI 3482.7Alethea RodriguesVeta MejiaBI 3482.6Zena PelletierAbdi HydeBusn 2102.6Grand Total	Zena Pelletier	BI 348	0.5		Jabari Turney		3.57
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Adria WallBI 3480.9Delma FortnerNadene LantzBI 3482.4Shonda WhitmoreDelma FortnerBI 3483.5Harriette CloutierShalanda McadamsBI 3480.6Marinda HairstonHarriette CloutierBI 3480.6Marinda HairstonHarriette CloutierBI 3480.6Marinda HairstonHang LancasterBI 3480.9Nadene LantzChantel MimsBI 3483.4Elois FossLizabeth SolisBI 3483.5Lizabeth SolisShihara D.BI 3483.5Lizabeth SolisShihara D.BI 3482.7Alethea RodriguesVeta MejiaBI 3482.6Zena PelletierAbdi HydeBusn 2102.6Grand Total	Beula Harwood	BI 348	2.4		Beula Harwood		2.79
Nadene LantzBI 3482.4Shonda WhitmoreDelma FortnerBI 3483.5Harriette CloutierShalanda McadamsBI 3480.6Marinda HairstonHarriette CloutierBI 3482.4Luciano NevilleHang LancasterBI 3480.9Nadene LantzChantel MimsBI 3483.4Elois FossLizabeth SolisBI 3483.5Lizabeth SolisShihara D.BI 3483.5Lizabeth SolisShihara D.BI 3482.7Alethea RodriguesVeta MejiaBI 3482.6Zena PelletierAbdi HydeBusn 2103.1Sin	Adria Wall	BI 348	0.9		Delma Fortner		2.77
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Shalanda Mcadams BI 348 0.6 Marinda Hairston Harriette Cloutier BI 348 2.4 Luciano Neville Hang Lancaster BI 348 0.9 Nadene Lantz Chantel Mims BI 348 4 Elois Foss Lizabeth Solis BI 348 3.4 Hang Lancaster Luciano Neville BI 348 3.5 Lizabeth Solis Shihara D. BI 348 3.9 Shalanda Mcadams Alethea Rodrigues BI 348 2.6 Zena Pelletier Abdi Hyde Busn 210 3.1 Grand Total	Delma Fortner	BI 348	3.5		Harriette Clouti	er	2.63
Harriette Cloutier BI 348 2.4 Luciano Neville Hang Lancaster BI 348 0.9 Nadene Lantz Chantel Mims BI 348 4 Elois Foss Lizabeth Solis BI 348 3.4 Hang Lancaster Luciano Neville BI 348 3.5 Lizabeth Solis Shihara D. BI 348 3.9 Shalanda Mcadams Alethea Rodrigues BI 348 2.6 Zena Pelletier Abdi Hyde Busn 210 3.1 Grand Total	Shalanda Mcadams	BI 348	0.6		Marinda Hairsto	n	2.59
Hang Lancaster BI 348 0.9 Nadene Lantz Chantel Mims BI 348 4 Elois Foss Lizabeth Solis BI 348 3.4 Hang Lancaster Luciano Neville BI 348 3.5 Lizabeth Solis Shihara D. BI 348 3.9 Shalanda Mcadams Alethea Rodrigues BI 348 2.7 Alethea Rodrigues Veta Mejia BI 348 2.6 Zena Pelletier Abdi Hyde Busn 210 2.6 Grand Total	Harriette Cloutier	BI 348	2.4		Luciano Neville		2.50
Chantel Mims BI 348 4 Elois Foss Lizabeth Solis BI 348 3.4 Hang Lancaster Luciano Neville BI 348 3.5 Lizabeth Solis Shihara D. BI 348 3.9 Shalanda Mcadams Alethea Rodrigues BI 348 2.7 Alethea Rodrigues Veta Mejia BI 348 2.6 Zena Pelletier Abdi Hyde Busn 210 2.6 Grand Total	Hang Lancaster	BI 348	0.9		Nadene Lantz		2.44
Lizabeth Solis BI 348 3.4 Hang Lancaster Luciano Neville BI 348 3.5 Lizabeth Solis Shihara D. BI 348 3.9 Shalanda Mcadams Alethea Rodrigues BI 348 2.7 Alethea Rodrigues Veta Mejia BI 348 2.6 Zena Pelletier Abdi Hyde Busn 210 2.6 Grand Total	Chantel Mims	BI 348	4		Elois Foss		2.43
Luciano Neville BI 348 3.5 Lizabeth Solis Shihara D. BI 348 3.9 Shalanda Mcadams Alethea Rodrigues BI 348 2.7 Alethea Rodrigues Veta Mejia BI 348 2.6 Zena Pelletier Abdi Hyde Busn 210 2.6 Grand Total	Lizabeth Solis	BI 348	3.4		Hang Lancaster		2.39
Shihara D. BI 348 3.9 Shalanda Mcadams Alethea Rodrigues BI 348 2.7 Alethea Rodrigues Veta Mejia BI 348 2.6 Zena Pelletier Abdi Hyde Busn 210 2.6 Grand Total Tyrone Lord Busn 210 3.1 Alethea Rodrigues	Luciano Neville	BI 348	3.5		Lizabeth Solis		2.36
Alethea Rodrigues BI 348 2.7 Alethea Rodrigues Veta Mejia BI 348 2.6 Zena Pelletier Abdi Hyde Busn 210 2.6 Grand Total Tyrone Lord Busn 210 3.1 Alethea Rodrigues	Shihara D.	BI 348	3.9		Shalanda Mcada	ms	2.17
Veta Mejia BI 348 2.6 Zena Pelletier Abdi Hyde Busn 210 2.6 Grand Total Tyrone Lord Busn 210 3.1 3.1	Alethea Rodrigues	BI 348	2.7		Alethea Rodrigu	ies	1.89
Abdi Hyde Busn 210 2.6 Grand Total Tyrone Lord Busn 210 3.1	Veta Mejia	BI 348	2.6		Zena Pelletier		1.70
Tyrone Lord Busn 210 3.1	Abdi Hyde	Busn 210	2.6		Grand Total		2.84
	Tyrone Lord	Busn 210	3.1				
Tawanda Redmon Busn 210 3.6	Tawanda Redmon	Busn 210	3.6				