Part V of GrEx2 divided into two parts, the second of which I've simplified by subdividing it into two parts (and removing the "top 6 requirement"):

- 1. Using the active customers' data:
 - For each gender code for adult_1:
 - o Calculate and report the number of adults with this gender code

Sample output:

	gender	adult1_g
0	F	12629
1	М	3268
2	U	1581
3	В	13

- 2. (a) Using the active customers' data:
 - For each gender code for adult 1:
 - Find the top 6 most ordered purchased product categories:
 - For each of the purchased product categories (not just the top 6):
 - Calculate the total spent in the category
 - o Calculate the total number of products purchased in the category

Sample outputs:

Using **pivot_table**... (output split into two screenshots to fit this page...):

								qty
	deptdescr	Appliances	Cameras & Camcorder Accessori	Home Audio	Mobil Electroni Accessorie	Mobile C Electronics		Small Appliances
	adult1_g							
	В	0.0	1.0	2.0	10.	0 14.0	3.0	10.0
	F	2.0	2639.0	7088.0	18255.	0 13974.0	6104.0	14622.0
	М	2.0	666.0	1948.0	3544.	0 2299.0	1440.0	3417.0
	U	1.0	3647.0	952.0	2103.	0 1647.0	938.0	1958.0
								totamt
		0						
,	Appliances	Cameras & Camcorder Accessori	Hom Audi	. E	Mobile lectronic essories	Mobile Electronics	Portable Electronics	Small Appliances
_	Appliances 0.00	Camcorder	Hom Audi	io Acc	lectronic			
		Camcorder Accessori	Hom Audi 719.7	o Acc	lectronic sessories	Electronics	Electronics	Appliances
	0.00	Camcorder Accessori	Hom Audi 719.7	6 Acc	lectronic sessories 472.47	Electronics 471.87	Electronics 834.00	Appliances

		qty	totamt
adult1_g	deptdescr		
	Cameras & Camcorder Accessori	1	104.97
	Home Audio	2	719.70
В	Mobile Electronic Accessories	10	472.47
В	Mobile Electronics	14	471.87
	Portable Electronics	3	834.00
	Small Appliances	10	848.22
	Appliances	2	1739.85
	Cameras & Camcorder Accessori	2639	321097.20
	Home Audio	7088	2171664.39
F	Mobile Electronic Accessories	18255	760369.65
	Mobile Electronics	13974	800757.84
	Portable Electronics	6104	745500.27
	Small Appliances	14622	956301.03
	Appliances	2	2100.00
	Cameras & Camcorder Accessori	666	89132.16
	Home Audio	1948	655876.92
М	Mobile Electronic Accessories	3544	150226.02
	Mobile Electronics	2299	144819.54
	Portable Electronics	1440	206839.29
	Small Appliances	3417	236165.61
	Appliances	1	2997.00
	Cameras & Camcorder Accessori	3647	390842.25
	Home Audio	952	318808.20
U	Mobile Electronic Accessories	2103	86722.92
	Mobile Electronics	1647	91468.41
	Portable Electronics	938	115611.87
	Small Appliances	1958	125988.45

2. (b) Get the 6 most common product ordered by gender.

Sample output:

adult1	l_g deptdescr	
В	Mobile Electronics	14
	Mobile Electronic Accessories	10
	Small Appliances	10
	Portable Electronics	3
	Home Audio	2
	Cameras & Camcorder Accessori	1
F	Mobile Electronic Accessories	17164
	Small Appliances	14106
	Mobile Electronics	12443
	Home Audio	6336
	Portable Electronics	5155
	Cameras & Camcorder Accessori	2343
M	Mobile Electronic Accessories	3379
	Small Appliances	3342
	Mobile Electronics	2124
	Home Audio	1771
	Portable Electronics	1212
	Cameras & Camcorder Accessori	574
U	Mobile Electronic Accessories	1981
	Small Appliances	1881
	Mobile Electronics	1413
	Home Audio	845
	Portable Electronics	687
	Cameras & Camcorder Accessori	320
Name:	deptdescr, dtype: int64	

Each row in the item table corresponds to a customer order (i.e. row in item table). So for each gender you want to get the frequency distribution in the **deptdescr** column.

Challenge problem: Incorporate the data from part (a) into part (b) so that the output displays the **qty** and **totamt** *next to* the number of purchases in each of the (top 6 by gender) categories.