CS 1656 – Introduction to Data Science – Fall 2016

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06 – Data Mining (Association Rule Mining) – Sep 19, 2016

Assume the following market basket transactions for a fictional super-market that carries the following products: **A** (angel hair pasta), **B** (bread), **C** (cereal), **D** (diapers), **E** (eggs), and **F** (flour).

#1	А	В		D		F
#2		В	С	D		
#3	А	В	С	D		
#4	А	В		D	Е	F
#5		В		D		F
#6	А	В	С		Е	
#7	А	В	С	D		
#8			С		Е	F
#9	А	В	С	D		F
#10			С	D	Е	

(1) Compute the support counts for each of the size 1 itemsets:

	Α	В	С	D	E	F
Count:						

(2) Compute the support counts for each doubleton (i.e., size 2 itemsets):

	F	E	D	С	В
А	AF:	AE: BE: CE: DE:	AD:	AC: BC:	AB:
В	BF:	BE:	AD: BD: CD:	BC:	
С	CF:	CE:	CD:		
D	DF:	DE:			
E	EF:				

(3) Compute the support counts for the following size 3 itemsets:

- ABC:
- ABD:
- ABE: