1





















X

CMU SCS



















X '	MUSCS								
	Dat	aCu	bes	5					
(Q1: How to store a dataCube?								
1	A2: Multi-dimensional (M-OLAP)								
1	A3: Hybrid (H-OLAI	P)	C / S	S	Μ	L	тот		
	•	·	Red	20	3	5	28		
			Blue	3	3	8	14		
			Gray	0	0	5	5		
			тот	23	6	18	47		
						I			
I	Faloutsos/Pavlo	CMU-SCS					20		













































































X	CMU SCS						
	Association rules - idea						
	In general, for a given rule Ij, Ik, Im -> Ix c 'c' = 'confidence' (how often people by Ix, given that they have bought Ij, Im 's' = support: how often people buy Ij, Im, Ix						
	Faloutsos/Pavlo CM	U-SCS	60				







S	CMU SCS						
	Association rules - idea						
	Naive solution: scan database once; keep 2** I counters						
	Drawback? 2**1000 is prohibitive						
	Improvement? scan the db I times, looking for 1- 2-, etc itemsets	,					
	Eg., for $ I =3$ items only (A, B, C), we have						
	Faloutsos/Pavlo CMU-SCS	64					















