



























Scale	Freie Universität
Problem scale very different:	
Kaufhof: ~ 100,000 products ~ n*10 ⁹ purchase tra	s, ansactions
Words in Web pages: ~ 10^6	
Web pages: 10 ¹	1 ?
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Transactions		1				
TransID	Product	minSupport := 3/5 ; minCount:= minSupport* T = 3				
111	printer	confidence = 0.7				
111	paper	Rologt prod	huat	downt	(*) from Transactions	
111	PC	serect product, count(*) from fransactions				
111	toner	group by product				
222	PC	having count(*) > minSupport;				
222	scanner				_	
333	printer	product, count(*)				
333	paper]			k=1	
333	toner	printer	4			
444	printer	naper	3			
444	PC	Paper	4			
555	printer	tonor				
555	paper	coner	3			
555	PC	scanner	2	X		
555	scanner	1				
555	toner	1				







Summary data mining



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Important statistical technique Basis algorithms from machine learning Many different methods and algorithms Supervised versus unsupervised

learning

Efficient implementation on **very large data sets** essential

Enormous **commercial interest** (business transactions, web logs,)

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