	A4 Q3 CSC384								
	Separation but no Sufficiency								
-	A=Gender, C=Prediction, Y=Hyperlipidemia								
	= EM, F3 = {Yes, No} = {Yes, No}								
				P(A, Y, C)					
	M	Yes	yes	0,2					
	M	Yes	No	0.04					
	M	No	Yes	0,09					
	M	No	No	0,17					
	F	Yes	Yes	0,2					
	F	Yes	No	0.04					
	F	No	Yes	0,06					
	F	No	No	0.2					
	PCC=Yes Y=Yes, A=F) = P(C, 4, A) = 0,2 - (0,2)								
	P(Y,A) 0,2+0,04 (0,24)								
	P(C=Yes 4=4es) = P(C,4) : 0,2+0,2 0,4 0,2								
	P(C=Yes 4=Yes) = P(C,4) . 0,2+0,2 P(4) = 0,2+0,2+0,04 = 0,48 = 0,24								
	So, P(C Y,A) = P(C Y) so Separation								
	10, 10 11, 11 se								
	D(4-400 C = 400 A=F) = P(C 4.A) = 0.2 (0.2)								
	P(Y=Yes C=Yes, A=F) = P(C,Y,A) = 0.2								
-	1004 4-10 4-1 0040) 02-102								
	V(1= 1es) = V(10) = 0,2+0,2								
	P(Y=Yes)(=Yes), H=P)=P(C, 9,17)=0.2+0.06								
	20016 12 + OCU (c) sufficience								
	So, P(YIC,A) & P(YIC) so no sufficiency								

		11 10	6						
	A4 Q3 C5C384								
	Sufficiency but no Separation								
	A = Gender C = Prediction 9 = Hyper lipidemia								
	= {F, M3} = {Y, N3} = {Y, N3}								
	A	Y	C	(P(A,Y,C)					
	M	4	, 4	0,2					
	M	4	N	0.07					
	M	N	4	0.06					
	щ	N	N	0.17					
	F	Y	4	0.2					
	F	Y	N	0.04					
	F	N	Y	0,06					
	F	N	N	0,2					
	0.0411	1 1 1	04.5	1					
	P(C=Y Y=Y, A=F) = P(C, Y, A) = 0.2 (0,2)								
	P(Y, A) 0,2+0.04 (0,24)								
	$\frac{P(C=Y Y=Y) = P(C,Y)}{P(Y)} = \frac{0.2 + 0.2}{0.2 + 0.07 + 0.1 + 0.04} = \frac{0.4}{2.51}$								
	P(4) 0.2+0.07+0.2+0.04 2.5)								
	So, P(C YA) + P(C Y)								
	Ly NO separation								
	P(Y=Y C=Y, A=F) = P(C, Y, A) = 0.2 = (0.2)								
	P(Y=Y C=Y) = P(C,Y) 0.2+0.06 (0.26)								
	1612110		and and an arranged with the second	+0.06+0.2+0.04	= 014	10,2			
	P(C) - 0,2+0,06+0,2+0,06 0.52 0.26								
	So, P(YIC, A) = P(YIC) -> sufficiency holds								
			1) wally	1			
200,122									