

















[example] :-) print subject class class_name	http://l	://leap.sourceforge.net/				
C1 FICTION C2 SCIENCE-FICTION C3 NON-FICTION						
C4 SCIENTIFIC C5 POETRY C6 DRAMA Message: Relation subject re	[example] :-) print index author title	class shelf				
	JOYCE ULYSSES GREENE SHORT STORIES ORWELL ANIMAL FARM	C1 12 C1 14 C1 12				
	LEM ROBOTS TALES LEM RETURN FROM THE STARS GOLDING LORD OF THE FLIES	C2 23 C2 23 C1 12				
[example] :-) print book reference author title	KING STRENGTH TO LOVE HEMINGWAY DEATH IN THE AFTERNOON HEMINGWAY TO HAVE AND HAVE NOT	C3 24 C3 22 C1 12				
R003JOYCEULYSSESR004JOYCEULYSSESR023GREENESHORT STR025ORWELLANIMAL F	ORIES ARM					
R033 LEM ROBOTS T R034 LEM RETURN F R036 GOLDING LORD OF P028 KINC STREMETER	ALES ROM THE STARS THE FLIES					
R143 HEMINGWAY DEATH IN R149 HEMINGWAY TO HAVE Message: Relation book retur	THE AFTERNOON AND HAVE NOT ned.	DB Foundations 10				













4										
Υ										
	$M_0 = \{ADT, proce$	dures }								
	······································									
	↓									
	$M = \{relations r_{-}\}$	operations }			F	Codd				
	$\mathbf{W}_1 = \{10110113, 1^{-1}\}$	sperations			L.	Couu				
	× • • • • • • • • • • • • • • • • • • •		1. 5			¥7				
	$M_2 = \{\text{nested relat}\}$	ons, xr-ope	rations }		H	. Korti	i at al.			
	1 - E - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -									
	$M_{2} = \{I, operation\}$	15}			D	Scott				
	1123 (22, 0) Portunio									
	M (alashar (as				c					
$M_4 = \{algebra (components, operations), transformations\}$										
		E		(DD			DP Four	dations	17	
October 200	U5	Functional Pr	rogramming	tor DB			DB FOUR	luauons	11	
						1				













