الجمهورية الجزائرية الديمقر اطية الشعبية

REPUBLIQUE ALGERIENNE DEMOCRATIQUE ET POPULAIRE

MINISTERE DE L'ENSEIGNEMENT SUPERIEUR ET DE LA RECHERCHE SCIENTIFIQUE

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وزارة التعليم العالي والبحث العلمي جامعة 8 ماي 1945 قالمة كلية الرياضيات ، الإعلام الآلي و علوم المادة

Knowledge Engineering Course Activity 4: Interconverting Decision Tables and Decision Trees

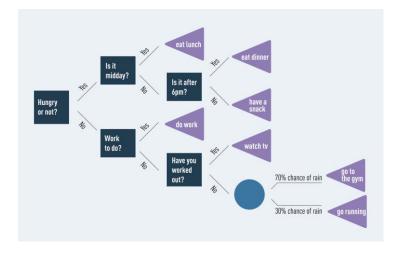
This activity is designed to immerse participants in the dynamic realm of knowledge management through the transformation of decision tables to decision trees and vice versa. This experiential process serves as a cornerstone for fostering effective knowledge representation and refining decision-making strategies.

In a collaborative setting, participants actively work together to convert decision tables into decision trees and vice versa, delving into the intricacies of these two visual representations. The primary goal is to augment participants' understanding and application of complex decision structures, offering a tangible bridge between theory and practice.

To enhance the experiential learning, the instructor initiates the activity by demonstrating the utilization of a Decision Table Creator tool. This tool not only expedites the creation and validation of decision tables but also serves as a real-world example of how technology can streamline and optimize knowledge management processes.

Case study 1:

Transform the following decision tree into a correspondent decision table:



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Case study 2:

Transform the following decision table into a correspondent decision tree:



Case study 3:

Transform the following decision table into a correspondent decision tree:

	Rules							
Conditions	1	2	3	4	5	6	7	8
Condition 1	Υ	Υ	Υ	Υ	N	Ν	Ν	Ν
Condition 2	Υ	Υ	N	Ν	Υ	Υ	Ν	N
Condition 3	Υ	Ν	Υ	Ν	Υ	Ν	Υ	N
Actions	1	2	3	4	5	6	7	8
Action 1	Χ		X					
Action 2							Χ	Х
Action 3	Χ				Х	Χ		
Action 4		X		X				