Decision Table

If the deductible has been met, the amount to be reimbursed depends on whether or not the doctor or hospital is a preferred provider. For preferred providers, doctor's office visits are reimbursed at 65% and hospital visits are reimbursed at 95%. For other providers, reimbursement is at 50% for doctor's office visits or 80% for hospital visits. No charges are reimbursed to the patient until the deductible has been met.

	Rules							
Conditions	1	2	3	4	5	6	7	8
1. Deductible met	Y	Y	Y	Υ	N	N	N	N
2. Preferred provider	Υ	Υ	N	N	Υ	Υ	N	N
3. Doctor's visit	Υ	N	Υ	N	Υ	N	Υ	N
Actions								
1. Reimburse 65%	X							
2. Reimburse 95%		X						
3. Reimburse 50%			X					
4. Reimburse 80%				X				
5. No reimbursement					X	X	X	X

Simplified Decision Table

	Rules					
						<u> </u>
Conditions	1	2	3	4	5	
1. Deductible met	Υ	Υ	Υ	Υ	N	
2. Preferred provider	Υ	Υ	N	N	_	
3. Doctor's visit	Y	N	Υ	N	_	
Actions						
1. Reimburse 65%	X					
2. Reimburse 95%		X				
3. Reimburse 50%			X			
4. Reimburse 80%				X		
5. No reimbursement					X	

Decision Table



Decision Table (Untrimmed)

Condition Stubs

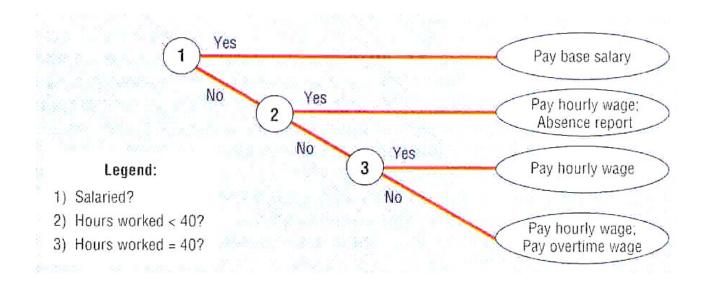
Action Stubs

Conditions/	0 8	Rules						
Courses of Action	1	2	3	4	5	6		
Employee type	S	H	S	Н	5	Н		
Hours worked	<40	<40	40	40	>40	>40		
		o o ³¹	121					
Pay base salary	Х	- 5	X	0 0	X			
Calculate hourly wage		Χ		X		Χ		
Calculate overtime	* *	o"				X		
Produce Absence Report		Χ						

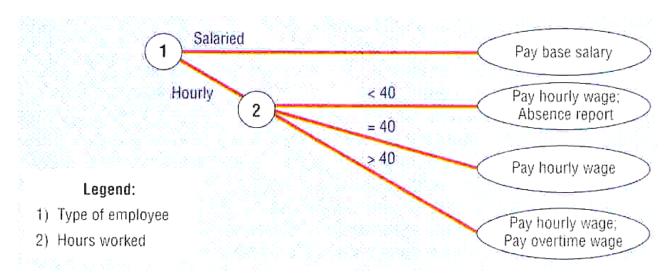
Decision Table (Trimmed)

Conditions/	Rules							
Courses of Action	1	2	3	4				
Employee type	S	Н	H	Н				
Hours worked		<40	40	>40				
Pay base salary	X							
Calculate hourly wage		X	X	X				
Calculate overtime				X				
Produce Absence Report		X						

Decision Tree (Untrimmed)



Decision Tree (Trimmed)

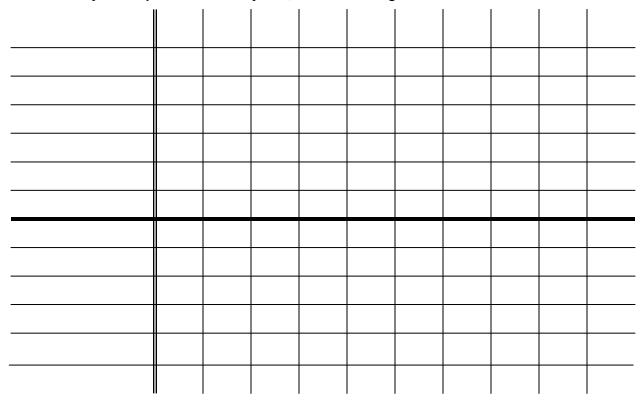


In-Class Assignment: Decision Table

Build a decision table corresponding to the following policy that determines salesperson commission:

If a non-salaried employee sells an item that is neither standard nor bonus to someone other than a regular customer, he or she receives a 10 percent commission, unless the item costs more than \$10,000, in which case the commission is 5 percent. For all salespeople, if a standard item is sold, or if any item is sold to a regular customer, no commission is given. If a salaried salesperson sells a bonus item, he or she receives a 5 percent commission, unless the item sells for more than \$1,000, in which case he or she receives a flat \$25 fee. If a nonsalaried salesperson sells a bonus item to someone other than a regular customer, he or she receives a 10 percent commission, unless the item costs more than \$1,000, in which case he or she receives a flat \$75 fee.

Tip: Do it in two phases. In the first phase, identify and list all the conditions and actions. Phrase them *positively*. In the second phase, translate each given statement into a rule.



Draw a dataflow diagram for which the above decision table is the process specification.

In-Class Assignment: Decision Tree

Build a decision tree for the following process

If the deductible has been met, the amount to be reimbursed depends on whether or not the doctor or hospital is a preferred provider. For preferred providers, doctor's office visits are reimbursed at 65% and hospital visits are reimbursed at 95%. For other providers, reimbursement is at 50% for doctor's office visits or 80% for hospital visits. No charges are reimbursed to the patient until the deductible has been met.

Draw a data flow diagram for the above process

In-Class Assignment: Decision Tree

Write structured English for the above process.

DFD Grading

	1	2	3	4
Error identified correctly	Y	Y	N	
Error corrected correctly	Y	N		
Correct item identified as error				Y
Give full credit (½ point)	X			
Give 0 points		X	X	X