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MTD 3043: ANALISIS DAN REKA BENTUK SISTEM / *SYSTEM ANALYSIS AND DESIGN*

SESI PENGAJIAN: SEM 2 (2021/2022)

KUMPULAN KULIAH MTD 3043 (A211): A

(TUTORIAL 2)

PROCESS DESCRIPTION TOOLS



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MTD 3043 Systems Analysis and Design

Tutorial 3: Process Description Tools

Question 1

The process of verifying order from customer reads as follows: “A new order will be accepted if the **products is in stock**, and the customer have an **acceptable credit status**. However, if the customer’s credit status was not OK, then the credit **manager has an authority to waive the credit status** requirement.”

- a. Write structured English for the verify order process.

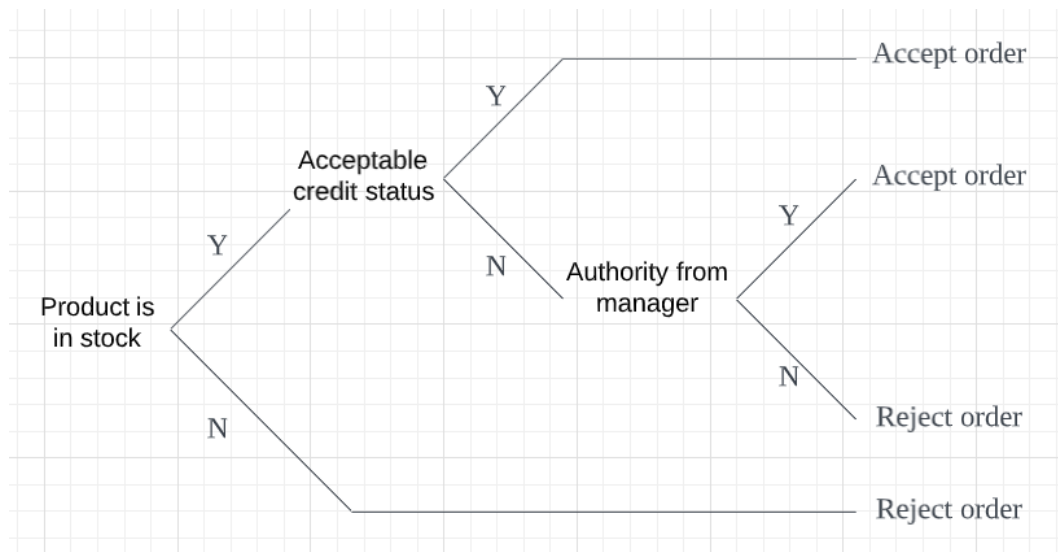
```
IF the products is in stock, and
    Accept new order
    ELSE IF manager give approval, then
        Accept order
    ELSE
        Reject order
ELSE
    Reject order
```

- b. Draw a decision table for this process. If necessary, simplified the decision table.

	1	2	3	4	5	6	7	8
Product is in stock	Y	Y	Y	Y	N	N	N	N
Acceptable credit status	Y	Y	N	N	Y	Y	N	N
Authority from manager	Y	N	Y	N	Y	N	Y	N
Accept order	X	X	X					
Reject order				X	X	X	X	X

	1	2	3	4
Product is in stock	Y	Y	Y	N
Acceptable credit status	Y	N	N	-
Authority from manager	-	Y	N	-
Accept order	X	X		
Reject order			X	X

c. Draw a decision tree for this process.



Question 2

Jimat Supermarket has a policy for cashing customer's cheques. If the cheque is a **personal cheque** for **\$75.00 or less** the cheque can be cashed. If the cheque is the **customers pay cheque**, it can be cashed for **over \$75.00** providing it is a **company accredited** by the supermarket.

- a. Write structured English for the Jimat Supermarket course catalog.

IF personal cheque, and
 IF \$75 or less, then
 Cash the cheque
 ELSE IF pay cheque, and
 IF more than \$75, and
 IF accredited company, then
 Cash the cheque
ELSE
 Don't cash the cheque

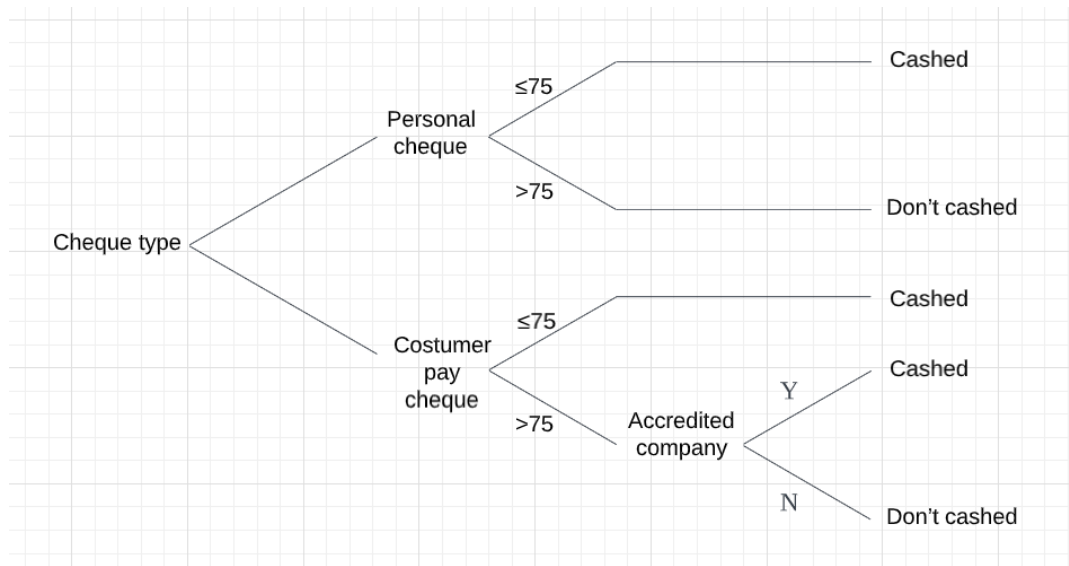
- b. Create a decision table for this supermarket.

	1	2	3	4	5	6	7	8
Cheque type	PC	PC	PC	PC	CPC	CPC	CPC	CPC
Cheque amount (less/more)	≤75	≤75	>75	>75	≤75	≤75	>75	>75
Accredited company	Y	N	Y	N	Y	N	Y	N
Cashed	X	X			X		X	
Don't cashed			X	X		X		X

- c. Simplify the table you just created. Show all possible rules.

	1	2	3	4
Cheque type	PC	PC	CPC	CPC
Cheque amount (less/more)	≤75	>75	-	-
Accredited company	-	-	Y	N
Cashed	X		X	
Don't cashed		X		X

d. Draw a simplified decision tree to represent the policy for this supermarket.



Question 3

Faculty of Information and Communication Technology has a catalogue course as following. To register MTD3013, students must **take MTD2013** or **UTM1013**. Besides, students must **get permission from the lecturer** before registering this course. Students who finished either one of the prerequisites or both and get permission from the lecturer are eligible to take MTD 3013.

- a. Write structured English for the FICT course catalog.

IF student take MTD2013

IF student take UTM1013, and

IF student get permission from lecturer, then

Can register

ELSE

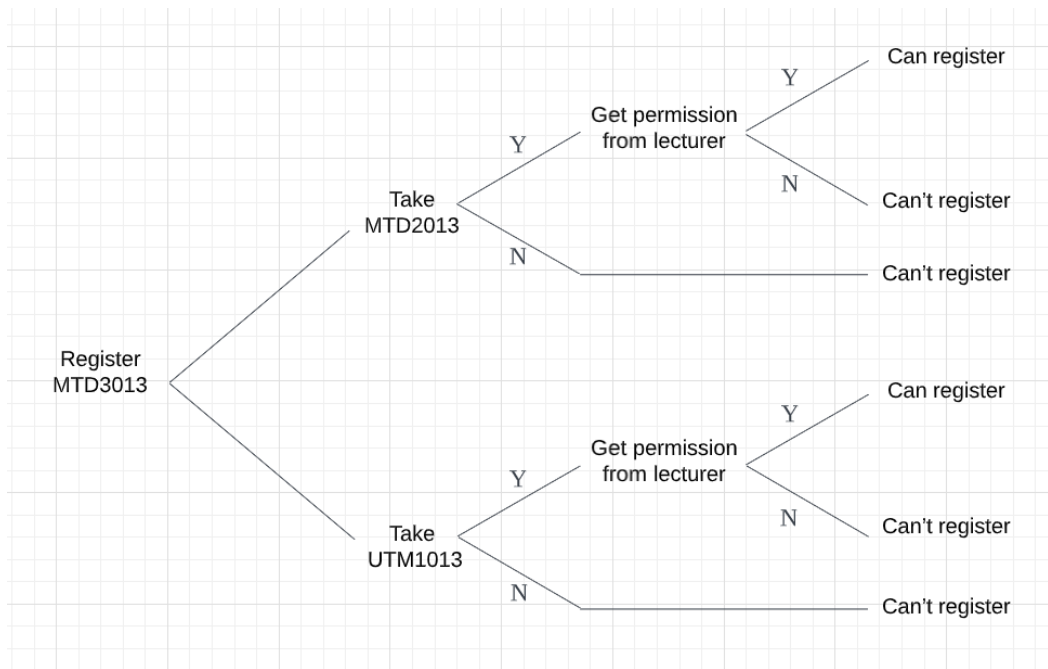
Can't register

- b. Draw a decision table for this catalog. If necessary, simplified the decision table.

	1	2	3	4	5	6	7	8
Take MTD2013	Y	Y	Y	Y	N	N	N	N
Take UTM1013	Y	Y	N	N	Y	Y	N	N
Get permission from lecturer	Y	N	Y	N	Y	N	Y	N
Can register	X		X		X			
Can't register		X		X		X	X	X

	1	2	3	4	5	6
Take MTD2013	Y	Y	Y	Y	N	N
Take UTM1013	Y	Y	N	N	Y	Y
Get permission from lecturer	Y	N	Y	N	Y	N
Can register	X		X		X	
Can't register		X		X		X

c. Draw a decision tree for this catalog.



Question 4

The local video store is planning a promotional giveaway for its long-standing customers. If the customer has been a member for **12 months or more**, they will receive a **coupon booklet allowing them to hire 5 movies for free**. If during that same 12 months they have **hired at least 10 videos**, they will receive an **additional 5 free movie** hire vouchers. If the customer's membership is **less than 12 months** and they have **hired at least 10 videos**, then they will **receive 3 free movie** hire vouchers. All members will **receive a Thank You letter**.

- a. Write structured English for the local video store course catalog.

IF customer membership ≥ 12 , then

Received coupon hire 5 movies for free

ELSE IF customer membership ≥ 12 , and

IF customer hire ≥ 10 movies, then

Received additional 5 movies hire voucher

ELSE IF customer membership ≤ 12 , and

IF customer hire ≥ 10 movies, then

Received 3 movie hire voucher

ELSE

All member received TQ letter

- b. Create a decision table for the local video store.

	1	2	3	4
Membership (less/more)	≥ 12	≥ 12	≤ 12	≤ 12
Hired video ≥ 10	Y	N	Y	N
Received coupon	X	X		
Additional 5 movies	X			
Receive 3 movies			X	
Receive TQ letter	X	X	X	X

c. Draw a decision tree to represent the data in local video store.

