

Process Specification

Example-1:

Bengali Food Company followed a discount policy for the customers as follows.

If the customer want to pay his/her order on credit card and customer's record is good the order will be accepted but do not give any discount. If customer's record is not good do not accept any order. If the customer want to pay his/her order on cash and sells amount is more than 1000BDT discount will be given 25%. If the customer want to pay his/her order on cash and sells amount is between 500 and 1000BDT than discount will be given 15%. If the customer want to pay his/her order on cash and sells amount is less than 500BDT, order is accepted but no discount will be made.

Write down the structured English to represent the process

- Prepare decision table for above scenario.
- Convert the decision table into decision tree

Example-2:

"High Tech Computer" receives order from distributors, resellers, and individuals for computers and accessories at a discount, which depends on the size of the order and type of customer. The clerk in charge stores and verifies the order and determines shipment cost. He also identified the type of customer for each order and sends related information to accounting department. An invoice is generated and accounts receivable are processed through the accounting department. IBM has following discount policy to generate invoice.

Distributor get a trade discount of 25% on orders of 500 computers or more, otherwise get 15% discount. For orders from resellers, 5% allowed on orders of 6-19 computers; 10% on orders for 20-49 computers; 15% on orders for 50-99 computers; 20% on order for 100 computers or more. For order individuals 5% discount is allowed on order of 3 computers or more; otherwise get no discount.

- Prepare decision tree for above scenario.
- Convert the decision table from Decision Tree.
- Write down the structured English to represent the process.

Example-3:

Azure Isle Resort has a pricing structure for vacationers in one of its three dwelling categories: the hotel, villas, and beach bungalows. The base price is for staying in the hotel. Beach bungalows have a 10 percent surcharge and renting a villa has a 15 percent surcharge. The final price includes a discount of 4 percent for returning customers. Further conditions apply to how close the resort is filled to capacity and whether the requested date is within one month from the current date. If the resort is 50 percent full and the time is within one month, there is a 12 percent discount. If the resort is 70 percent full and the time is within one month, there is a 6 percent discount. If the resort is 85 percent full and it is within one month, there is a 4 percent discount.

Create a decision tree, decision table and structured language that captures the business rules in the Azure Isle Resort.

Example-4:

"BdFashion Ltd." is a fashion wares business company. They have 20 showrooms in Dhaka city and every showroom has several sales persons. They purchase finished dresses of men and women of all ages from different suppliers and sale those items to the registered or nonregistered customers. All Purchases are controlled from the head office and distributes items to all showrooms based on their previous sales records. They have discount policy for the registered customers. They have three types of customer: Platinum, Golden and General. If a Platinum customer purchase items by less than 1000 taka then they will get 5 % discount and purchase items by more than or equal 1000 taka they will get 7 % discount. If a Golden customer purchase items by less than 1000 taka they will get 4 % discount and purchase items by more than or equal 1000 taka they will get 6 % discount. General customers will always get 2 % discount whatever they purchase.

Draw the decision tree, decision table and structured language for the above discount policy