LAB Task 9-10

Read the following case study.

A company wants to unify the way orders are handled.

* All orders of non-star-client with bad credit should be rejected.
* If there is enough products in stock, orders should be accepted otherwise order is put in waiting list.

Use the above information and answer the following questions.

1. Write down the conditions and actions for the above information.
   1. **Conditions:**
      1. Non Star Client
      2. Bad Credit
      3. Stock Availability
   2. **Actions:**
      1. Rejected
      2. Accepted
      3. Waiting
2. Draw decision diagram of the information provided.
3. Determine maximum no. of rules.

Number of rules = (Number of possibilities for Condition 1) x (Number of possibilities for Condition 2)

Number of rules = (4 possibilities for Condition 1) x (2 possibilities for Condition 2)

**Number of rules = 4 x 2 = 8**

So, there are a maximum of 8 rules that can be derived from the provided conditions for handling orders. These rules cover all possible combinations of star/non-star clients with good/bad credit and whether there are enough products in stock or not.

1. Draw decision table of the above information.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Conditions** | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| **Non Star Client** | Y | Y | Y | Y | N | N | N | N |
| **Bad Credit** | Y | Y | N | N | Y | Y | N | N |
| **Stock Availability** | Y | N | Y | N | Y | N | Y | N |
| **Actions** |  |  |  |  |  |  |  |  |
| **Rejected** | Y | Y | NA | NA | NA | NA | NA | NA |
| **Accepted** | NA | NA | Y | NA | Y | NA | Y | NA |
| **Waiting** | NA | NA | NA | Y | NA | Y | NA | Y |

1. Draw Simplified decision table.
2. Write down the test cases.