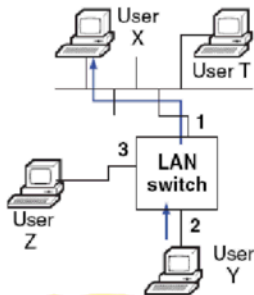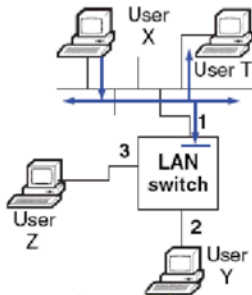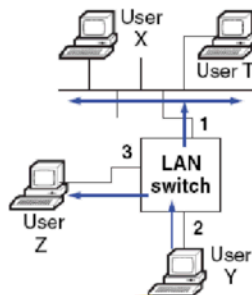# **Functions** of an Ethernet Switch

- Uses tables similar to the routing tables but based on the addresses of layer 2:
  It learns the address by analysing the the frames received (automatic learning).
- It receives frames with any destination address and performs one of three
  functions: forwarding, broadcast (flooding) and filtering.

Forwarded: packet
from Y to X

Filtered: packet
from X to T

Flooded: packet
from Y to Z

Source address table	
MAC address	Port
X	1
Y	2
T	1

When Z starts transmitting the
Source Address Table learns
the address

MAC address = Z, Port = 3