1. Data Set

|  |  |  |  |
| --- | --- | --- | --- |
| **Day** | **Discount** | **Free Delivery** | **Purchase** |
| Weekday | Yes | Yes | Yes |
| Weekday | Yes | Yes | Yes |
| Weekday | No | No | No |
| Holiday | Yes | Yes | Yes |
| Weekday | Yes | Yes | Yes |
| Holiday | No | No | No |
| Weekend | Yes | No | Yes |
| Weekday | Yes | Yes | Yes |
| Weekend | Yes | Yes | Yes |
| Holiday | Yes | Yes | Yes |
| Holiday | No | Yes | Yes |
| Holiday | No | No | No |
| Weekend | Yes | Yes | Yes |
| Holiday | Yes | Yes | Yes |
| Weekday | Yes | Yes | Yes |
| Weekday | Yes | Yes | Yes |
| Weekday | Yes | No | Yes |
| Weekend | Yes | No | Yes |
| weekday | Yes | Yes | Yes |
| weekday | Yes | Yes | Yes |
| Weekend | Yes | Yes | Yes |
| weekday | Yes | Yes | Yes |
| Holiday | Yes | Yes | Yes |
| Holiday | Yes | Yes | Yes |
| Holiday | Yes | Yes | Yes |
| Weekend | No | Yes | Yes |
| Weekend | No | Yes | Yes |
| Weekend | Yes | Yes | Yes |
| Holiday | Yes | Yes | Yes |
| Holiday | Yes | Yes | Yes |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Frequency Table | | Buy | |  |
| yes | no |  |
| Discount | yes | 19 | 1 | 20 |
| no | 5 | 5 | 10 |
|  |  | 24 | 6 | 30 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Frequency Table | | Buy | |  |
| yes | no |  |
| Free Delivery | yes | 21 | 2 | 23 |
| no | 3 | 4 | 7 |
|  |  | 24 | 6 | 30 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Frequency Table | | Buy | |  |
| yes | no |  |
| Day | Weekday | 9 | 2 | 11 |
| weekend | 7 | 1 | 8 |
| Holiday | 8 | 3 | 11 |
|  |  | 24 | 6 | 30 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| likelihood Table | | Buy | |  |
| yes | no |  |
| Discount | yes | 19/24 | 1/6 | 20/30 |
| no | 5/24 | 5/6 | 10/30 |
|  |  | 24/30 | 6/30 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Likelihood Table | | Buy | |  |
| yes | no |  |
| Free Delivery | yes | 21/24 | 2/6 | 23/30 |
| no | 3/24 | 4/6 | 7/30 |
|  |  | 24/30 | 6/30 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Likelihood Table | | Buy | |  |
| yes | no |  |
| Day | Weekday | 9/24 | 2/6 | 11/30 |
| weekend | 7/24 | 1/6 | 8/30 |
| Holiday | 8/24 | 3/6 | 11/30 |
|  |  | 24/30 | 6/30 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| likelohood Table | | Buy | |  |
| yes | no |  |
| Discount | yes | 0.792 | 0.167 | 0.667 |
| no | 0.208 | 0.833 | 0.333 |
|  |  | 0.800 | 0.200 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Likelohood Table | | Buy | |  |
| yes | no |  |
| Free Delivery | yes | 0.875 | 0.333 | 0.767 |
| no | 0.125 | 0.667 | 0.233 |
|  |  | 0.800 | 0.200 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Likelihood Table | | Buy | |  |
| yes | No |  |
| Day | Weekday | 0.375 | 0.333 | 0.367 |
| weekend | 0.292 | 0.167 | 0.267 |
| Holiday | 0.333 | 0.500 | 0.367 |
|  |  | 0.800 | 0.200 |  |

1. Menghitung Probability
2. P (Buy | Day = Weekday, Free Delivery = Yes, Discount = Yes)

= P(Day=Weekday|Yes) x p (Free Delivery = Yes|No) x p (Discount = Yes|No) / P(Day=weekday) x p(free delivery=yes) x p (discount=yes)

= 0.375 x 0.875 x 0.792 x 0.800/ 0.367 x 0.767 x 0.667

=1,10881

1. P (Buy | Day = Weekday, Free Delivery = No, Discount = No)

= 0,273945

1. P (not buy|day = weekday, free delivery = yes, discount= yes)

= 0.019763

1. P(not buy| day= weekday, fd = no, discount = no)

=1.298701

1. P (buy|day = weekend, fd= yes, discount = yes)

=1,185887

1. P (buy|day= weekend, fd= no, discount= no)

=0.292969

1. P (not buy|day= weekend, fd = yes, discount,= yes)

=0.013587

1. P (not buy|day= weekend, fd= no, discount = no)

=0,892857