YOLANDA MENGE(17.51.0006)

1. Buatlah data set dengan ketentuan sebagai berikut:
2. Data set with 30 record

|  |  |  |  |
| --- | --- | --- | --- |
| **Day** | **Disscount** | **Free Delivery** | **Purchase(Buy)** |
| 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 | No | Yes |
| Weekday | Yes | Yes | Yes |
| Weekend | Yes | No | Yes |
| Weekday | Yes | Yes | Yes |
| Weekday | Yes | Yes | Yes |
| Weekend | Yes | Yes | Yes |
| Weekday | Yes | Yes | No |
| Holiday | Yes | Yes | Yes |
| Holiday | Yes | Yes | Yes |
| Holiday | No | Yes | Yes |
| Weekend | No | Yes | Yes |
| Weekend | No | Yes | Yes |
| Weekkend | No | Yes | No |
| Holiday | No | Yes | Yes |
| Holiday | No | No | No |

1. Kriteria keseluruhan recorder

|  |  |  |  |
| --- | --- | --- | --- |
| Frequency Table | | Buy | |
| Yes | No |
| Discount | Yes | 19 | 1 |
| No | 5 | 5 |

|  |  |  |  |
| --- | --- | --- | --- |
| Frequency Table | | Buy | |
| Yes | No |
| Free Delivery | Yes | 21 | 2 |
| No | 3 | 4 |

|  |  |  |  |
| --- | --- | --- | --- |
| Frequency Table | | Buy | |
| Yes | No |
| Day | Weekday | 9 | 2 |
| Weekend | 7 | 1 |
| Holiday | 8 | 3 |

LIKLIEHOOD TABLE

|  |  |  |  |
| --- | --- | --- | --- |
| 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 |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Likelihood Table | | Buy | |
| Yes | No |
| Discount | Yes | 0,792 | 0,167 | 0,667 |
| No | 0,208 | 0,833 | 0,333 |
|  | 0,800 | 0,200 |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Likelihood 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. Hitung probabilitas:
2. P(Buy | Day = Weekday, Free Delivery = Yes, Discount = Yes)

P(Day = Weekday|No) \* P(Free Delivery = Yes|No) \* P(Discount =Yes|No) \* P(Buy)/

P(Day =Weekday) \* P(Free Delivery = Yes) \* P(Discount = Yes)

= ((9/24) \* (21/24) \* (19/24) \* (24/30)) / ((11/30) \* (23/30) \* (20/30))

= 1,108881

1. P(Buy|day = weekday, Free Delivery = No, Discount + No)

P(Day = weekday|no) \* P(Free Delivery = No|yes) \* P(Discount = no|yes) \* P(Buy)/

P (Day= weekday) \* P(Free Delivery = No) \* P(Discount = No)

= ((9/24) \* (3/24) \* (5/24) \* (24/30)) / ((11/30) \* (7/30) \* (10/30))

=0,273945

1. P(Not Buy | Day = Weekday, Free Delivery = Yes, Discount = Yes)

P (Day = Weekday | No) \* P(Free Delivery = Yes |No) \* P(Discount = Yes | No) \* P(No Buy) / P(Day = Weekday) \* P(Free Delivery = Yes) \* (Discount = Yes)

= ((2/6) \* (2/6) \* (1/6) \* (6/30)) / ((11/30) \* (23/30) \* (20/30)

= 0,019763

1. P(Not Buy | Day = Weekday, Free Delivery = No, Discount = No)

P(Day = Weekday | No) \* P(Free Delivery = No|Yes) \* P(Discount = No|Yes) \* P(Not Buy)/ P(Day = Weekday) \* P(Free Delivery = No) \* (Discount = No)

= ((2/6) \* (4/6) \* (5/6) \* (6/30)) / ((11/30) \* (7/30) \* (10/30))

= 1,298701

1. P(Buy|Day = Weekend, Free Delivery = Yes, Discount = Yes)

P(Day = Weekend|No) \* P(Free Delivery = Yes|No) \* P(Discount = Yes|No) \* P(Buy)/

P(Day = Weekday) \* P(Free Delivery = No) \* P(Discount = No)

= ((7/24) \*(21/24)\*(19/24)\*(24/30)) / ((8/30)\*(23/30)\*(20/30))

=1,185887

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

P(Day = Weekend|No) \* P(Free Delivery = No|Yes) \* P(Discount = No|Yes) \* P(Buy)/

P(Day = Weekened) \* P(Free Delivery = No) \* P(Discount = No)

= ((7/24)\*(3/24)\*(5/24)\*(24/30)) / ((8/30)\*(7/30)\*(10/30))

= 0,292969

1. P(Not Buy|Day = Weekend, Free Delivery = Yes, Discount = Yes)

P(Day = Weekend|No) \* P(Free Delivery = Yes|No) \* P(Discount = Yes| No) \* P(Not Buy)/ P(Day = Weekend) \* P(Free Delivery = No) \* P(Discount = No)

= ((1/6)\*(4/6)\*(5/6)\*(6/30)) / ((8/30)\*(7/30)\*(10/30))

= 0,892857