**NAMA : I’ROFUL BARIYAH**

**NIM : 17.51.0004**

**MATKUL : DATA MINING**

**TUGAS TGL : 18 JUNI 2020**

1. **Buatlah data set dengan kententuan sebagai berikut**

**TABEL DATA SET**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Day** | **Discount** | **Free Delivery** | **Purchase** |
| **1** | Weekday | Yes | Yes | Yes |
| **2** | Weekday | Yes | Yes | Yes |
| **3** | Weekday | No | No | No |
| **4** | Holiday | Yes | Yes | Yes |
| **5** | Weekday | Yes | Yes | Yes |
| **6** | Holiday | No | No | No |
| **7** | Weekend | Yes | No | Yes |
| **8** | Weekday | Yes | Yes | Yes |
| **9** | Weekend | Yes | Yes | Yes |
| **10** | Holiday | Yes | Yes | Yes |
| **11** | Holiday | No | Yes | Yes |
| **12** | Holiday | No | No | No |
| **13** | Weekend | Yes | Yes | Yes |
| **14** | Holiday | Yes | Yes | Yes |
| **15** | Weekday | Yes | Yes | No |
| **16** | Weekday | Yes | Yes | Yes |
| **17** | Weekday | Yes | No | Yes |
| **18** | Weekend | Yes | No | Yes |
| **19** | Weekday | Yes | Yes | Yes |
| **20** | Weekday | Yes | Yes | Yes |
| **21** | Weekday | Yes | Yes | Yes |
| **22** | Weekend | Yes | Yes | Yes |
| **23** | Weekday | Yes | Yes | Yes |
| **24** | Holiday | Yes | Yes | Yes |
| **25** | Holiday | Yes | Yes | Yes |
| **26** | Holiday | Yes | Yes | Yes |
| **27** | Weekend | No | Yes | Yes |
| **28** | Weekend | No | Yes | Yes |
| **29** | Weekend | Yes | Yes | Yes |
| **30** | Holiday | Yes | Yes | Yes |

**FREQUENCY TABEL**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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 |  |

**TABEL LIKELIHOOD SETELAH PERHITUNGAN**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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. **Hitunglah probabilitas dari :**

|  |
| --- |
| 1. **P(Buy|day = weekday, FD = yes, Discount= yes** |
|  |
|  |
|  |
|  |
| 1. **P(Buy|day = weekday, FD = no, Discount= no** |
|  |
|  |
|  |
|  |
| 1. **P(not buy|day = weekday, free delivery = yes, discount= yes)** |
|  |
|  |
|  |
|  |
| 1. **P(not buy| day= weekday, fd = no, discount = no)** |
|  |
|  |
|  |
|  |
| 1. **P (buy|day = weekend, fd= yes, discount = yes)** |
|  |
|  |
|  |
|  |
|  |
| 1. **P(buy|day= weekend, fd= no, discount= no)** |
|  |
|  |
|  |
|  |
| 1. **P(not buy|day= weekend, fd = yes, discount,= yes)** |
|  |
|  |
|  |
|  |
| 1. **p(not buy|day= weekend, fd= no, discount = no)** |
|  |
|  |
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|  |