**NAMA : I’ROFUL BARIYAH**

**NIM : 17.51.0004**

**MATKUL : DATA MINING**

**JAWABAN**

|  |  |
| --- | --- |
| T1 | (Roti, selai, mentega) |
| T2 | (Roti, mentega) |
| T3 | (Roti, susu, mentega) |
| T4 | (coklat, roti) |
| T5 | (coklat, susu) |

* Support dan confidence ?
* Support minim 0,3 dan confidence = 0,8.
* Jumlah transaksi |D|= 5
* Perumpamaan :
  + R = roti
  + S = selai
  + M = Mentega
  + U = susu
  + C = coklat
  + 0 = Tidak bernilai

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Transaksi** | **Roti** | **Selai** | **Mentega** | **Susu** | **Coklat** |
| T1 | R | S | M | 0 | 0 |
| T2 | R | 0 | M | 0 | 0 |
| T3 | R | 0 | M | U | 0 |
| T4 | R | 0 | 0 | 0 | C |
| T5 | 0 | 0 | 0 | U | C |

|  |  |  |
| --- | --- | --- |
| **Itemset** | **Support** | **Confidence** |
| R | 0,8 |  |
| S | 0,2 |  |
| M | 0,6 |  |
| U | 0,4 |  |
| C | 0,4 |  |
| RS | 0,2 | 0,25 |
| **RM** | **0,6** | **0,75** |
| RU | 0,2 | 0,25 |
| RC | 0,2 | 0,25 |
| SM | 0,2 | 1 |
| SU | 0 | 0 |
| SC | 0 | 0 |
| MU | 0,2 | 0,33 |
| MC | 0 | 0 |
| UC | 0,2 | 0,5 |
| RSM | 0,2 | 0,25 |
| RSU | 0 | 0 |
| RCS | 0 | 0 |
| RMU | 0,2 | 0,25 |
| RMC | 0 | 0 |
| RUC | 0 | 0 |
| SMU | 0 | 0 |
| SMC | 0 | 0 |
| MUC | 0 | 0 |

**Perhitungan :**

1. **SUPPORT**

* Support (R) =
* Support (S) =
* Support (M) =
* Support (U) =
* Support (C) =
* Support (RS) =
* **Support (RM) =**
* Support (RU) =
* Support (RC) =
* Support (SM) =
* Support (SU) =
* Support (SC) =
* Support (MU) =
* Support (MC) =
* Support (UC) =
* Support (RSM) =
* Support (RSU) =
* Support (RCS) =
* Support (RMU) =
* Support (RMC) =
* Support (RUC) =
* Support (SMU) =
* Support (SMC) =
* Support (MUC) =

1. **CONFIDENCE**

* Conf R→S =
* **Conf R→M =**
* Conf R→U =
* Conf R→C =
* Conf S→M =
* Conf S→U =
* Conf S→C =
* Conf M→U =
* Conf M→C =
* Conf U→C =
* Conf R,S→M =
* Conf R,S→U =
* Conf R,C→S =
* Conf R,M→U =
* Conf R,M→C =
* Conf R,U→C =
* Conf S,M→U =
* Conf S,M→C =
* Conf M,U→C =

1. Jadi, yang memenuhi syarat support > 0,3 dan confidence > 0,8 adalah RM(roti, mentega)
2. Dari Frequent Itemset tersebut dapat dibangun kaidah asosiasi sebagai berikut :

R→M