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A screenshot of a cell phone

Description automatically generated

There are 5 transactions in total (which is 100%)

|  |  |  |
| --- | --- | --- |
|  | Min\_ support | Min\_support\_count |
| Min\_support | 60% | 3 |

**FIRST ITERATION:**

CI1

|  |  |
| --- | --- |
| {M} | 3 |
| {O**}(I count O appearance as one per its appearance in each transaction; therefore although it appears twice in the last transaction, we consider that as one to match support measurement)** | 3 |
| {N} | 2 |
| {K} | 5 |
| {E} | 4 |
| {Y} | 3 |
| {D} | 1 |
| {A} | 1 |
| {U} | 1 |
| {C} | 2 |
| {I} | 1 |

FI1

|  |  |
| --- | --- |
| {M} | 3 |
| {O} | 3 |
| {K} | 5 |
| {E} | 4 |
| {Y} | 3 |

**SECOND ITERATION:**

CI2:

|  |  |
| --- | --- |
| {M,O} | 1 |
| {M,K} | 3 |
| {M,E} | 2 |
| {M,Y} | 2 |
| {O,K} | 3 |
| {O,E} | 3 |
| {O,Y} | 2 |
| {K,E} | 4 |
| {K,Y} | 3 |
| {E,Y} | 2 |

FI2:

|  |  |
| --- | --- |
| {M,K} | 3 |
| {O,K} | 3 |
| {O,E} | 3 |
| {K,E} | 4 |
| {K,Y} | 3 |

**THIRD ITERATION:**

CI3:

|  |  |
| --- | --- |
|  | In FI2 ? |
| {M,O,K}  {M,O},{M,K} | No |
| {M,O,E}  {M,O},{M,E},{O,E} | No |
| {M,K,E}  {M,K},{M,E},{K,E} | No |
| {M,K,Y}  {M,K},{M,Y},{K,Y} | No |
| {M,O,Y}  {M,O},{M,Y},{O,Y} | No |
| {M,E,Y}  {M,E},{M,Y},{E,Y} | No |
| {K,O,E}  {K,O},{K,E},{O,E} | Yes |
| {K,O,Y}  {K,O},{K,Y},{O,Y} | No |
| {K,E,Y}  {K,E},{K,Y},{E,Y} | No |
| {O,E,Y}  {O,E},{O,Y},{E,Y} | No |

FI3:

|  |  |
| --- | --- |
| {K,O,E} | 3 |

So there is one frequent itemset found which is {K,O,E} by applying Apriori Algorithm.