**Frequent pattern**

The dataset used for frequent pattern and association rules exploitation is preprocessed in order to get bins for all numerical attributes.

We also changed minimum sizes of frequent pattern from 2 to 3 and 4, i.e. with *zmin = 3* and *4*, but to find itemset with these minimum size we had to lower the support value.

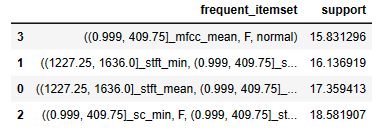


Figure 1: frequent pattern of minimum sizes of 3 and minimum support of 15%, displayed with support ascending order.

With a minimum size of 3 the result is four itemset, with the highest support being 18.58%.

Immagine che contiene tavolo

Descrizione generata automaticamente

Figure 2: frequent pattern of minimum sizes of 4 and minimum support of 10%, displayed with support ascending order.

With *zmin = 4*, keeping min\_sup = 15 we don’t get any itemset and we have to lower to 10%. In this way we found 13 itemset, with the highest support being 12.90%. However, it’s still a good result considering the minimum dimension of itemset.