

We discuss the issue of searching the best  $K$  objects in more attributes for more users. Every user prefers objects in different ways. User preferences are modelled locally with a fuzzy function and globally with an aggregation function. Also, we discuss the issue of searching the best  $K$  objects without accessing all objects. We deal with the use of local preferences when computing Fagin's algorithms. We created a new model of lists for Fagin's algorithms based on B+-trees. Furthermore, we deal with the use of a multidimensional B-tree for searching the best  $K$  objects. We developed an MD-algorithm, which can effectively find the best  $K$  objects in a multidimensional B-tree in accordance with user's preferences and without accessing all the objects. Last but not least, we show results of all the tests of described algorithms. MD-algorithm achieves better results in the number of accessed objects than Fagin's algorithms.