This diploma thesis deals with operation DELETE in coalesced hashing. First of all we talk about principles of hashing itself and we describe some basic types of hashing. Chapter 3 is devoted to coalesced hashing and creating the corresponding hash table using di erent inserting methods with or without cellar presence. Then, three algorithms for deleting records form hash table are introduced. Their implementaion is discussed in detail for every inserting method of coalesced hashing. Simulated data experiments follow the theoretical part of the thesis. They are focused on comparing time consumption of the delete algorithms as well as search performance before/after delete. The presented algorithms are implemented in C language and are available on enclosed CD together with the measured results.