HASHING TECHNIQUES

COALESCED HASHING

1. Advantages
   a. Contrary to linear hashing technique, in coalesced hashing, while searching an element, traversing all the elements until the element is found is not required. The elements which have the same hash code are linked each other. In this way, the elements which have same hash code is traversed only.
   b. Contrary to chaining hashing technique, coalesced hashing does not use extra memory space for links. The items on the links are also placed on table.
2. Disadvantages
   a. Contrary to chaining hashing technique, deletion is difficult in coalesced hashing technique. Because if an element is linked to deleted element, the element must be moved to position of deleted element. In chaining hashing technique, if an element is deleted, the element which points to deleted element and which deleted element points, are linked each other.
   b. Contrary to linear hashing technique, coalesced hashing technique uses extra memory space for links.

DOUBLE HASHING

1. Advantages
   a. Contrary to linear and chaining hashing techniques, double hashing technique prevents primary and secondary clustering.
2. Disadvantages
   a. Contrary to linear and chaining hashing technique, in double hashing technique, computational cost may be high, and implementation may be difficult.