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In data entry, X is search key and (Y, Z ) is sid for entry.

For Alternative (2), the notation ( X , (Y, Z ) ) is used. These notation says Y is page number and Z is location on page Y.

For Alternative (3), the notation ( X , (Y, Z ) ) is used as same, but with the possibility of additional sid’s listed.

The answer to each question is given below:

1. From figure 8.1, Contradiction  is opposition to one another. It cannot build Alternative (1) using it can’t create unclustered index on age . Hence this method is inherently clustered.

2. From figure 8.1, Since this method is inherently clustered. The order entries is not significant. Order is:

(11 , ( 1 , 1 ) ) , (12, (1 , 2) ) , ( 18 , ( 1 , 3) ) , ( 19, ( 2 , 1 ) ) , ( 19, ( 2 , 2 ) ) .

3. From figure 8.1,The order entries is not significant. Order is:

( 11, (1,1) ) , ( 12, (1 ,2) ), ( 18, (1 ,3) ), ( 19 , (2 ,1) , (2 , 2) ) .

4. From figure 8.1, The order entries is significant . since order of data record and the order of the entries is same. Order is:

11 , 19

5. From figure 8.1,The order entries are significant. since order of data record and the order of the entries is same. Order is:

(11, (1,1) ), ( 19, (2,1) )

6. From figure 8.1, The order entries are significant. since order of data record and the order of the entries is same. Order is:

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( 11, (1,1)) , ( 19, (2,1), (2,2) ) .

7. From figure 8.1, Contradiction is idea where opposition to one another. It cannot build unclustered index on GPS using Alternative (1). Since method is inherently clustered.

8. From figure 8.1, The order entries is not significant. Order is:

( 1.8, (1,1) ) , ( 2.0, (1,2) ) , ( 3.2 , (2,1) ) , ( 3.4 , (1,3) ) , ( 3.8 , (2,2) )

9. From figure 8.1, The order entries is not significant. Order is:

( 1.8 , (1,1) ) , ( 2.0 , (1,2) ) , ( 3.2 , (2,1) ) , ( 3.4 , (1,3) ) , ( 3.8 , (2,2) )

10. From figure 8.1, On GPS , alternative (1) not use in building a clustered index .

In file ,data not sorted in order of GPS . And this can happen when data are in ( 1,3 ) and ( 2,1) but age is not sorted as previous.

11. From figure 8.1, On GPS , alternative (2) not use in building a clustered index . In file ,data not sorted in order of GPS . And this can happen when data are in ( 1,3 ) and ( 2,1) but age is not sorted as previous.

12. From figure 8.1, On GPS , alternative (3) not use in building a clustered index . In file ,data not sorted in order of GPS . And this can happen when data are in ( 1,3 ) and ( 2,1) but age is not sorted as previous..