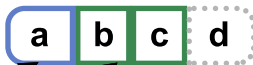


# Table format



Primary  
index

Secondary  
index

sorted by  
column **a**

Insert {**1**, **2**, **3**, **4**}

sorted columns  
**b** and **c**

{**a** = **1**, **b** = **2**, **c** = **3**, d = 4,  
version = 1}

{**b** = **2**, **c** = **3**, **a** = **1**,  
version = 1}



Replace {**1**, **5**, **6**, **7**}

{**a** = **1**, **b** = **5**, **c** = **6**, d = 7,  
version = 2}

{**b** = **5**, **c** = **6**, **a** = **1**,  
version = 2}

{**a** = **1**, **b** = **2**, **c** = **3**, d = 4,  
version = 1}

{**b** = **2**, **c** = **3**, **a** = **1**,  
version = 1}



Compaction

Version 1 is discarded  
by 2 due to equal keys

Version 1 is **not** discarded  
by 2 - keys are different!

**Inconsistency**