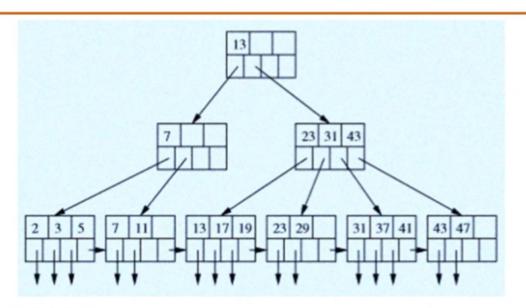
Database Technologies Lab-2

Name – Arvind Krishna SRN – PES1UG19CS090 Sem – 6, Sec – B Date – 02 - Feb – 2022

Insertion and deletion from B- Trees

DATABASE TECHNOLOGIES

Index Structure - B Trees

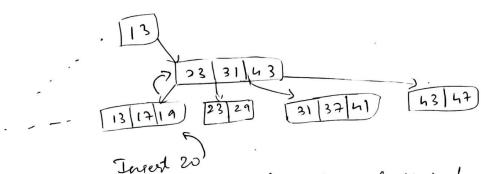


- Insert key 20
- · Delete key 29

Solution:

Towest 20 to the given Btree

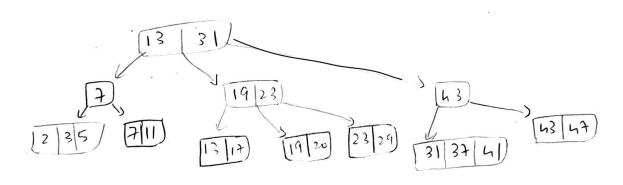
- consider only the right half for now



To accomodate 20, we need to promote 19 to parent slot and break leaf into [13/17) Ex [14/20] pairs

Now even the parent has helements, again, promote 31 to parent le Grak into subtrees.

.. The final tree will become



Deletion of key 29

Since 29 is a leaf node, there is no need for any rotations

The new tree will become

