## Raman Sunkla



## (S) (2020201098)

- 10 The Essue with conventional indexes s-
  - -> It is difficult to add keys (update) once they are made.
  - -> To use the Index whole Endex the has to be loaded in the memory!
  - The Pondenies has to be sorted after every updation:
  - Btree Solves, all the above problem si--> we can add keys, the keys will be sorted and the memory need to be filled with the portion of Biree which is needed to be accessed.
- 11) | Object Based DBS and Object orlented Protocol;

Object Based DBS is popular as it follows the real world architecture and thus is scalable and robust and mortular viy Tab (odylo (RNS)) Since both have a,b,d columns Thus. ( Tab ( 0 d) 10 5 Torb ( Torb ( Torb ( Torb S) 10 x 10 tuples 100 bytes , disk I/O tomee - 50MB Memory B = 4096 by tes tuples/ block = 4096 = (40)11 total Blocks = 10+ = 2.5 ×105 Blocks total Mamory Blocks = 50×106 = 11.25×104 Blow

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& 10t typles 50MB = 50x2 10 Blocks = 12800 Blocks No-of types / Block = 40 Total Blocks = 2.5 × 10 T Blocks Accessing in Random order e-2.5 × 10 × t = 10.6 disk I/0 Cylinder Blocks = 512 Blocks => 12800) z 25 ylunders for 50 MB. 512 Tihu for 25. transfer = 25 × 15 = 375 ml, .°. phase 1 time = 2.5×10<sup>6</sup> ×377 = 183.45 512 thus phase 2 time = 183.48 Total time = 2.5x10 x 2×15x103 x 2×183.4 = 7500 + 366.8 = 7866.8