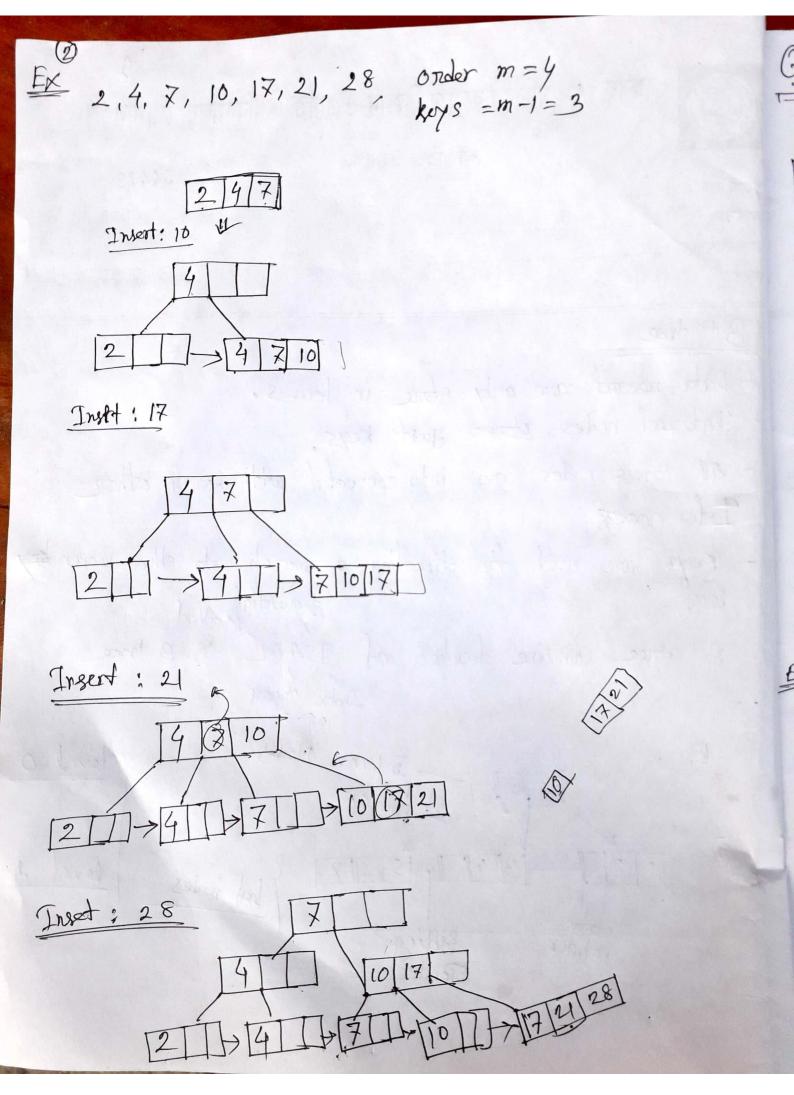
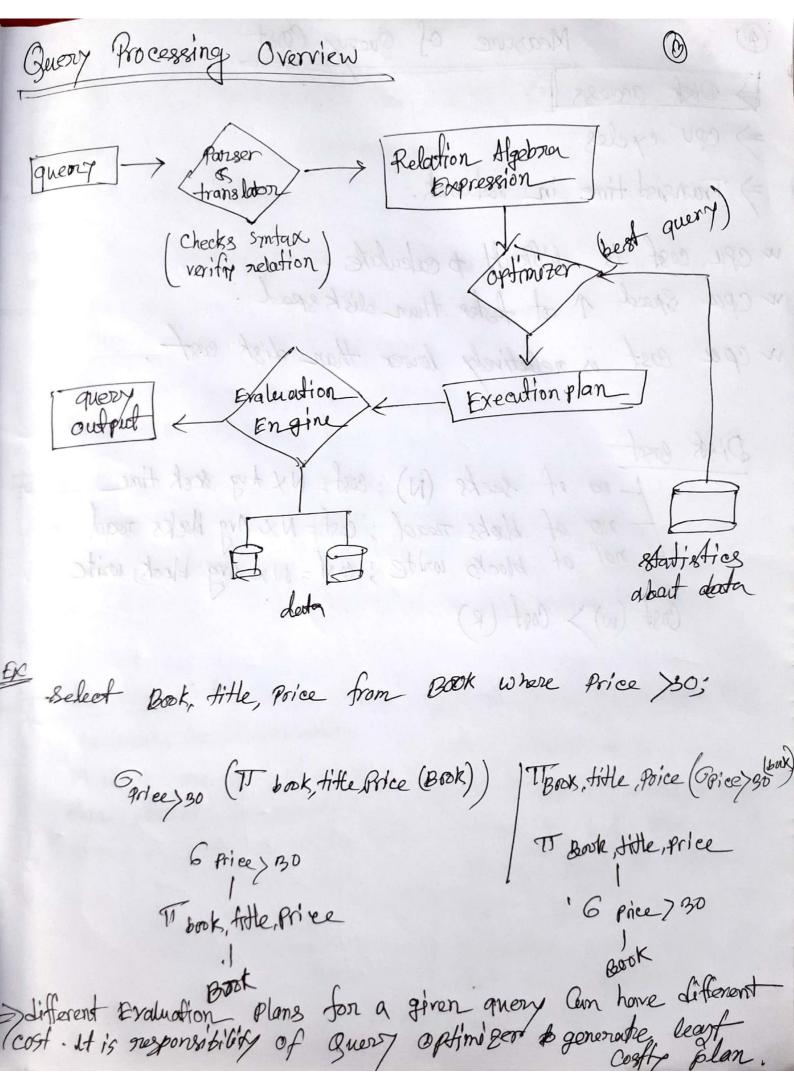


वनवन्न भिर्य मूजिवूत त्रमान विज्ञान ও প্রযুক্তি विশ্वविদ্যালয়, গোপালগঞ্জ

arear .	অতিরিক্ত উত্তরপত্র	নম্বর -	34478
স্টুডেন্ট নম্বর কোর্স নম্বর	9		
কোর্স শিরোনাম	8		() Pola [
সকশন	ঃ এ / বি	ইন্	ভিজিলেটরের স্বাক্ষর
B+ +		7 [TTOIL
- Data	Trecord are only of		
	mecond are only stone in leaves.		FL: Har
- All	leaves nodes are interconnected with	each	other
- Keys	s are used for directing a search	10	the Proper key
	8 equentral	rethool	
- B+.	tree combine feaches of ISAM	8 1	3 tree
	Index Access		1404
Ex	Internal Nodes Child pointer		[level o)
	12 314 55 67 }	no les	level 1
	Pointer Silling Pointer		





Scanned by CamScanner

Measure of guerry Cost Pisk access => cpu cycles. => Transist time in notwork. w con cost is difficult podeulate. x cpu speed 1 at faster than disk speed. we can cost is relatively lower than dists cost. Disk lost Los of secks (N); cost = NX try seek time Los of blocks nead; cost = NX try blocks read not of blocks write; cost = NX try blocks write Cost (w) > Cost (R) alor ar (T book file size (Beck))



34479



বঙ্গবন্ধু শেখ মুজিবুর রহমান বিজ্ঞান ও প্রযুক্তি বিশ্ববিদ্যালয়, গোপালগঞ্জ

স্টুডেন্ট নম্বর	8		
কোর্স নম্বর	8		
কোর্স শিরোনাম	8	भी न	
সকশন	8 এ / वि	भाग गान	ইনভিজিলেটরের স্বাক্ষর

অতিরিক্ত উত্তরপত্র

Sorting

we use order by clause in 882 Removes duplécades

Touter Execution of operation

- Indernal Sorting - bubble sort (done in M.M. relation)

- External Sorting (If nelation is very large then the kuffer (data bus)

In that case we use external sorting.)

External Marge Sort

M blocks our fit into memory.

M block are need of a time

then shorted in memory

then M blocks are written block

Morge (m-1) runs at a time (n-1)

- Read 18 block of M-1 runs

- then it of 1st necond to butter.

- Continue fill butter block is full

- of butter block to liek

- when a block of a run is

Exhausted next block of

that run is read.

- end

18, 4, 16, 13, 12, 17, 21, 15, 19, 20, 14 11, 18, 18, 12, 13, 17, 15, 19, 21 14, 20 11, 12, 13, 16, 13, 18, 14, 15, 19, 20, 21 Cost of External Marge Sort Algo. No: of passes = 1 + [log - [MB]] Cost = 2N* (# No. of passer) with 5 butter pages, to sort 108 page tile. Pass 0 = [108] = 22contra be host are shold M $pan 1 = \lceil \frac{22}{4} \rceil = 6$ Pan 2 = [=] = 2

Pan 3 = 1=1

tedonstal next block of

that some is need.