

(15)

R	
A	B
1	10
1	20
2	30
2	40

S	
A	B
10	75
10	85
30	95

~~R~~ ~~IN~~ S

A	B
1	20
2	40

left outer join

Block Nested join (BNJ) uses buffering of rows read in outer loops to reduce no. of times inner loop must be read in that table. Algo

if 10 rows are read  $\rightarrow$  each reduces magnitude that times.

for each block in R do  
for each block in S do

"

"

compare (tr. ts) if they satisfy selection then

add them to left anti join

end

end

end

Thus, if they don't satisfy, we discard those tuples