Notes

Friday, June 7, 2019

2:33 AM

- It is easy to represent a many-to-one relationship in JSON.
 but it is difficult to represent a many-to-many relationship.
- · SQL++ cont express all queries expressible in datalog.
- · Size & Cost Estimation

V(R,A) # of distinct values of attr A.

o Estimate size of a guery plan P

selectivity for

$$f = V(R,A_1) \cdots V(R,A_n)$$

- TCR) $| O_{A_1} = a_1 \text{ and } A_2 = a_2 \cdots A_n = a_n | = \sqrt{R_1 A_2 \cdots V(R_1 A_n)}$
- $|RMS| = \frac{|R| + |S|}{\max(V(R,B) + (S,C)}$
- o I/O cost of selection

- Sequential scan B(R)
- Index based selection
 - Clustered f.BCR)
 - Unclustered f. T(R)