VESSIE GEORGE 8/7/2016 HOMEWORK 4 NI > O. d R2 are union-compate 21 @ R2)

Given R1 and R2. Given N2>N1>0.

DRIURZ. Assume that RI and R2 are union-compatible.

Minimum size = N2 (i e.RI @ R2)

Maximum size = NI + N2 (i.e. forall tuples RI ≠ R2)

2) RI ∩ R2. Assume that Rt and R2 are unlon-compatible

Minimum size = 0 (i.e. for all tuples R1 ≠ R2)

Maximum size = N2 (i.e. R1 ⊆ R2)

3) RI-R2. Assume RI and R2 are union-compatible.

Minum size = 0 (i-e, RI = R2)

Maximum size = NI (i.e for all tuples RI 7 R2)

4) RIX R2, Minimum size = Maximum size = NI * N2

5) Ja=5 (RI). Assume that RI has an attribute called 'a'.

Minimum size = 0 (i e. for all tuples in R1, a = 5)

Maximum size = N1 (i.e. for all tuples in R1, a = 5)

GITA(RI). Assume that RI has an attribute called a; NIXO. Given NI >0, so there must be atteast one tuple.

Minimum size = 1 Maximum size = N1

7) RI/R2. Assume that the set of attributes of R2 is

Minumum size = 0 9 :- given NZ>NI Maximum size = 0 - 1



