Andrew Morris

CSCI 411

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HW 1

**4.2**

1. R1∪R2

Number of Tuples = N1 + N2

Assumptions:

1. R1 & R2 are union-compatible
2. No tuples in R1 are identical as any other tuples in R2. If there are duplicates from the union, then the number of tuples produced by the union would be decreased by this amount.
3. The resultant schema is identical to R1.

2. R1xR2

Number of Tuples = N1\*N2

Assumptions:

1. Any attribute names that conflict have been resolved by renaming them.
2. The resulting schema from this operation will have R1’s schema, in order, followed by R2’s schema, in order.

**4.4**

2. The names of the suppliers who sell red parts that cost less than $100.

5. The names of suppliers who sell red parts that cost less than $100, and also sell green parts that cost less than $100.

ER Diagram:

