Assignment 2: File/assignments/hw2RA Join $M \equiv \times$ followed by σ Natural Join X * Query: List Drame, Drumber, Dlocation Tonono, Doumber (Department) & Dept-Loc Toname, Dnumber, Dwahin (Dept M Dept-Loc)

OR

Toname, Dnumber, Dwahin (Dept * Dept-Loc) Dept. dnumber = Dept Loc . dnumber Query: list emp name 2 Dependent name.

There dependent (SSN=essn (Emp x Dependent)) TFrame, dep-rome (EMP X) SSN=ESSN Dependent) TI Frame deprame (EMP * (P.S.N.) Deprame (TIESSN- depreme) Dependent))) Query: What is the output of:

TISSN, SEX (EMP) XI (SSN, SEX, deprene (Dependent))

G 7-1 -1

SSN Sex Dep-name 1234 M Michael 3 234 M Theodore

Dependents who have the same sex as the parent emp.

Wemp. SSN = dependent. SSN

emp. sex = dependent. sex

Query: List projects (PNO) that are common to emp 1234 and emp 3334

w1 ← 6 essn=1234 (woks-on) -> 2

W2 = OESN = 3334 (works-on) -> 4

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Query: List SSN and names of emp who either work in dep = 5 or supervise an emp. who works in dep 5.

A Toperson (Fdno=s (Emp))

B Emp Od Son=superson

C TFname, Son (B)

Frame, Son (dno=s Emp)

Result C U D

N-way join Query: List each project name with its department manager's name.

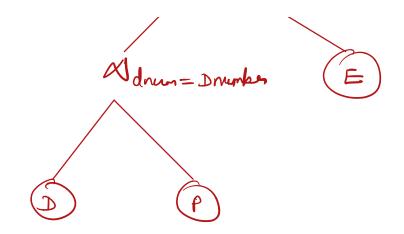
T (Project & Department & Employee)

Doum=Doumber mgr-ssn=ssn

Franc, Drame, Prame

Normanne, Prame

Normanne, Prame



Note: Order of joins does not matter, but RA solves from left to right like MATH.

Query: List the emp name along with employee's project name.

Thune, prone (Works & Emp) & Project
essn=ssw pro=frunker

OR

There Prame (Works of Project of Emp)