Query: Select Prane
from Project
where Drum NOT IN

( Select Drumber
from Dept Loc
where Dlocation = Plocation);

Outputs projects that are not in the same location as its department.

update Project
Sat Plocation = Bellaire where Prumber = 10;

Query 1: Select ESSN

from works, project

where (dnewn = 4 and Pno = Pnumber);

Output: { 3334 9998 9879 98763

hot son of emp who work on a project in dept 4

Select ESSN from works on where Pro IN NOT IN ( Select Pnumber from Pagect where Dnum=4); Output: \$ 1234 66 68 4 5 34 8886 9876 33343 Query 2: Lest SSN of emp who work in at least one project that is not in dept 4. Query 3: Lest SSN of emp who DO NOT works on ANY project controlled by dept 4. <u>Output</u> { 1234 6668 4534 88863 EMP WORKS-ON Qury 1 emp who work on a

project in dep

Query

Sdect SSM from Emp

where SSN NOT IN

( Salect essing project where drum = 4 and Pro = Prumber);

Query: List SSN of emp who work on ALL project controlled by dept 4. \$ 9998

98793

I there exists

3 x GA s.t. < condultor> is satisfied

A = { 0, 1, 23

3 x EA s.t. x > 0 True

\$ xEA s.t. x>0 False

3x CA s.t x<0 False

$$A = \{3\}$$
  $\exists x \in A$  False  $x \in A$  Toue  $A = \{0, 1, 2\}$   $\exists x \in A$  Toue

A= {0,1,2} = x \in A True

= \time x \in A False

Query: list Frame of emp who work is depts located in 'Stafford' or 'Bellaire'.

Select Frame Select Frame from Emp from Emp where DOD IN where EXISTS (Select \* (Solect Dnumber from DeptLoc from Depthoc where Dlocation = Slafford where (Dlocehon = Stafford 08 Nocahon = Belleve) or Docation = Belleve); AND Drumber = Dno) I output of subquery: 1234 & 5, Bellare 3

point at Emp if x. Dro @ Deptloc

IN

EMP

Deption = Bellane or Stafford



3

print & E Emp of 3 y & Loc s.t 2. Drum = y. Drumber

Query: List emp without dependents.

Select Frame

from Emp

where SSN NOT IN

(Salect ess N from Dapandent) (Salect \* from Dapandent

print at Emp if x. SSN & Dep where SSN = essN)

Solut Frame

from Emp

where NOT EXISTS

print x & Emp if \$ (y & Dep s.t 2 SSN = y SSN);