**IS 6420 Relational Algebra Supplement S1**

A relational database, shown in Figure 6.6 has the following relations.

**EMPLOYEE**:

Primary key (SSN)

Foreign key (SUPERSSN) references EMPLOYEE (SSN)

Foreign key (DNO) references DEPARTMENT (DNUMBER)

**DEPARTMENT**:

Primary key (DNUMBER)

Foreign key (MGRSSN) references EMPLOYEE (SSN)

**DEPT\_LOCATION**:

Primary key (DNUMBER, DLOCATION)

Foreign key (DNUMBER) references DEPARTMENT (DNUMBER)

**PROJECT**:

Primary key (PNUMBER)

Foreign key (DNUM) references DEPARTMENT (DNUMBER)

**WORKS\_ON**:

Primary key (ESSN, PNO)

Foreign key (ESSN) references EMPLOYEE (SSN)

Foreign key (PNO) references PROJECT (PNUMBER)

**DEPENDENT**:

Primary key (ESSN, DEPENDENT\_NAME)

Foreign key (ESSN) references EMPLOYEE (SSN)



