**2058 LAB8 ANSWERS**

1.)

EMP\_W\_X <-- ( s PNAME='ProductX' (PROJECT)) J (PNUMBER),(PNO)

(WORKS\_ON)

EMP\_WORK\_10 <-- (EMPLOYEE) J (SSN),(ESSN) ( s HOURS>10 (EMP\_W\_X))

RESULT <-- P LNAME,FNAME ( s DNO=5 (EMP\_WORK\_10))

**Result:**

**LNAME FNAME**

**Smith John**

**English Joyce**

2.)

PROJ\_EMPS(PNO,SSN) <-- P PNO,ESSN (WORKS\_ON)

ALL\_PROJS(PNO) <-- P PNUMBER (PROJECT)

EMPS\_ALL\_PROJS <-- PROJ\_EMPS -:- ALLPROJS

RESULT <-- P LNAME,FNAME (EMPLOYEE \* EMP\_ALL\_PROJS)

**Result (empty):**

**LNAME FNAME**

3.)

DEPT\_AVG\_SALS(DNUMBER,AVG\_SAL) <-- DNO f AVG SALARY

(EMPLOYEE)

RESULT <-- P DNUMBER,AVG\_SAL ( DEPT\_AVG\_SALS \* DEPARTMENT )

**Result:**

**DNUMBER AVG\_SAL**

**Research 33250**

**Administration 31000**

**Headquarters 55000**

4.)

ALL\_EMPS <-- P SSN (EMPLOYEE) WORKING\_EMPS(SSN) <-- P ESSN (WORKS\_ON) NON\_WORKING\_EMPS <-- ALL\_EMPS - WORKING\_EMPS RESULT <-- P LNAME,FNAME (EMPLOYEE \* NON\_WORKING\_EMPS)

**Result (empty):**

**LNAME FNAME**

5.)

RESULT(AVG\_F\_SAL) <-- f AVG SALARY ( s SEX='F' (EMPLOYEE) )

**Result:**

**AVG\_F\_SAL**

**31000**