1. SELECT Fname, Lname

FROM ((EMPLOYEE JOIN PROJECT ON Dno = Dnum)

JOIN WORKS\_ON ON Pnumber = Pno)

WHERE Dno = 5 AND Pname = “ProductX” AND hours>10;

Result: John Smith

Joyce English

1. SELECT Fname, Lname

FROM (EMPLOYEE JOIN DEPENDENT ON Ssn = Essn)

WHERE Fname = Dependent\_name;

Result: Empty table

1. SELECT Fname, Lname

FROM EMPLOYEE AS E, EMPLOYEE AS S

WHERE E.Ssn = S.Super\_ssn AND S.Fname = “Franklin” AND S.Lname = “Wong”;

Result: John Smith

Ramesh Narayan

Joyce English

1. SELECT Course\_name

FROM (COURSE NATURAL JOIN SECTION)

WHERE Instructor = “King” AND (Year = 07 OR Year = 08);

d)

SELECT Name, Course\_name, Course\_number, Credit\_hours, Semester, Year, Grade

FROM (((COURSE NATURAL JOIN SECTION) NATURAL JOIN GRADE\_REPORT) NATURAL JOIN STUDENT)

WHERE Department = “CS” AND Class = 4;

PART 2

CREATE TABLE EMPLOYEE (

SIN INT NOT NULL,

name VARCHAR (15) NOT NULL,

age INT,

sex CHAR,

phone INT NOT NULL,

city\_name CHAR,

PRIMARY KEY(SIN),

FOREIGN KEY (city\_name) REFERENCES CITY (name));

CREATE TABLE KID (

SIN INT NOT NULL,

Name VARCHAR(15) NOT NULL,

age

p1\_sin INT NOT NULL,

p2\_sin INT NOT NULL,

playground\_name CHAR,

PRIMARY KEY(SIN),

FOREIGN KEY (p1\_sin) REFERENCES EMPLOYEE (SIN),

FOREIGN KEY (p2\_sin) REFERENCES EMPLOYEE (SIN),

FOREIGN KEY (playground\_name) REFERENCES PLAYGROUND (name));

CREATE TABLE PLAYGROUND (

name VARCHAR(20) NOT NULL,

Street\_no INT,

City\_name CHAR NOT NULL,

Zip\_code CHAR NOT NULL,

PRIMARY KEY (name),

FOREIGN KEY (city\_name) REFERENCES CITY (name));

CREATE TABLE CITY (

name CHAR NOT NULL,

Area INT,

Population INT,

Province CHAR,

Country CHAR,

PRIMARY KEY(name));

PART 3

1. SELECT name

FROM CITY

WHERE name NOT IN (SELECT city\_name

FROM PLAYGROUND);

1. SELECT name, MIN (population)

FROM CITY

GROUP BY name;

1. SELECT E.SIN, E.name

FROM EMPLOYEE AS E, KID

WHERE E.SIN = p1\_sin OR E.SIN = p2\_sin;

1. SELECT P.name

FROM ((PLAYGROUND AS P JOIN KID AS K ON p.name = k.playground\_name) JOIN EMPLOYEE AS E ON E.SIN = K.p1\_sin OR E.SIN = K.p2\_sin)

WHERE P.city\_name = E.city\_name

1. SELECT E.name