CREATE TABLE locations (

location\_id NUMBER PRIMARY KEY,

city VARCHAR2(50)

);

CREATE TABLE departments (

department\_id NUMBER PRIMARY KEY,

department\_name VARCHAR2(50),

location\_id NUMBER,

FOREIGN KEY (location\_id) REFERENCES locations(location\_id)

);

CREATE TABLE employees (

employee\_id NUMBER PRIMARY KEY,

last\_name VARCHAR2(50),

department\_id NUMBER,

FOREIGN KEY (department\_id) REFERENCES departments(department\_id)

);

-- Insert data into locations table

INSERT INTO locations (location\_id, city) VALUES (100, 'New York');

INSERT INTO locations (location\_id, city) VALUES (200, 'London');

-- Insert data into departments table

INSERT INTO departments (department\_id, department\_name, location\_id) VALUES (10, 'Sales', 100);

INSERT INTO departments (department\_id, department\_name, location\_id) VALUES (20, 'HR', 200);

-- Insert data into employees table

INSERT INTO employees (employee\_id, last\_name, department\_id) VALUES (1, 'Smith', 10);

INSERT INTO employees (employee\_id, last\_name, department\_id) VALUES (2, 'Johnson', 20);

INSERT INTO employees (employee\_id, last\_name, department\_id) VALUES (3, 'Williams', 10);

SELECT last\_name, city

FROM employees e, departments d, locations l

WHERE e.department\_id = d.department\_id

AND d.location\_id = l.location\_id;



