CREATE TABLE employees (

employee\_id INT PRIMARY KEY,

first\_name VARCHAR(50),

last\_name VARCHAR(50),

email VARCHAR(100),

phone\_number VARCHAR(20),

hire\_date DATE,

job\_id VARCHAR(10),

salary DECIMAL(10, 2),

commission\_pct DECIMAL(5, 2),

manager\_id INT,

department\_id INT

);

INSERT INTO employees (employee\_id, first\_name, last\_name, email, phone\_number, hire\_date, job\_id, salary, commission\_pct, manager\_id, department\_id)

VALUES

(101, 'John', 'Doe', 'john.doe@example.com', '555-1234', '2023-01-15', 'IT\_PROG', 50000.00, 0.10, NULL, 1),

(102, 'Jane', 'Smith', 'jane.smith@example.com', '555-5678', '2023-02-20', 'SA\_REP', 60000.00, 0.15, 101, 1),

(103, 'Michael', 'Johnson', 'michael.johnson@example.com', '555-9876', '2023-03-10', 'FIN\_ANALYST', 55000.00, 0.12, 101, 2),

(104, 'Emily', 'Brown', 'emily.brown@example.com', '555-4321', '2023-04-05', 'HR\_REP', 45000.00, 0.08, 101, 3),

(105, 'William', 'Davis', 'william.davis@example.com', '555-8765', '2023-05-01', 'SA\_REP', 65000.00, 0.14, 102, 1),

(106, 'Sophia', 'Wilson', 'sophia.wilson@example.com', '555-6543', '2023-06-15', 'IT\_PROG', 52000.00, 0.09, 102, 1);

SELECT employees.last\_name, employees.department\_id, employees.job\_id, employees.employee\_id

FROM employees

NATURAL JOIN departments;

ALTER TABLE job\_history

ADD previous\_job VARCHAR2(50),

current\_job VARCHAR2(50);

UPDATE job\_history

SET previous\_job = 'IT\_PROG', current\_job = 'SA\_REP'

WHERE employee\_id = 101 AND start\_date = '2023-01-01';

UPDATE job\_history

SET previous\_job = 'SA\_REP', current\_job = 'FIN\_ANALYST'

WHERE employee\_id = 102 AND start\_date = '2023-03-15';

UPDATE job\_history

SET previous\_job = 'FIN\_ANALYST', current\_job = 'HR\_REP'

WHERE employee\_id = 103 AND start\_date = '2023-02-10';

SELECT employees.employee\_id, employees.last\_name, departments.department\_id, departments.department\_name

FROM employees

JOIN departments ON employees.department\_id = departments.department\_id;