CREATE TABLE employee (

emp\_id INT PRIMARY KEY,

first\_name VARCHAR(20),

last\_name VARCHAR(20),

birth\_date DATE,

sex VARCHAR(9),

salary INT,

super\_id INT,

branch\_id INT

);

CREATE TABLE branch (

branch\_id INT PRIMARY KEY,

branch\_name VARCHAR(20),

mgr\_id INT,

mgr\_start\_date DATE,

FOREIGN KEY(mgr\_id) REFERENCES employee(emp\_id) ON DELETE SET NULL

);

ALTER TABLE employee

ADD FOREIGN KEY(branch\_id) REFERENCES branch(branch\_id) ON DELETE SET NULL,

ADD FOREIGN KEY(super\_id) REFERENCES employee(emp\_id) ON DELETE SET NULL

;

CREATE TABLE client (

client\_id INT PRIMARY KEY,

client\_name VARCHAR(20),

branch\_id INT,

FOREIGN KEY(branch\_id) REFERENCES branch(branch\_id) ON DELETE SET NULL

);

CREATE TABLE sales (

emp\_id INT,

client\_id INT,

total\_sales INT,

PRIMARY KEY(emp\_id, client\_id),

FOREIGN KEY(emp\_id) REFERENCES employee(emp\_id) ON DELETE CASCADE,

FOREIGN KEY(client\_id) REFERENCES client(client\_id) ON DELETE CASCADE

);

CREATE TABLE branch\_supplier (

branch\_id INT,

supplier\_name VARCHAR(20),

PRIMARY KEY(branch\_id, supplier\_name),

supply\_type VARCHAR(20),

FOREIGN KEY(branch\_id) REFERENCES branch(branch\_id) ON DELETE CASCADE

);

INSERT INTO employee VALUES(1, 'Davis', 'Mccow', '1976-09-12', 'male', 120000, NULL, NULL);

INSERT INTO employee VALUES(2, 'Lena', 'Mccow', '1976-09-12', 'female', 120000, NULL, NULL);

INSERT INTO employee VALUES(3, 'Aaron', 'Mccow', '1976-09-12', 'male', 120000, NULL, NULL);

INSERT INTO employee VALUES(4, 'John', 'Mccow', '1976-09-12', 'male', 120000, NULL, NULL);

INSERT INTO employee VALUES(5, 'Lenon', 'Mccow', '1976-09-12', 'female', 120000, NULL, NULL);

ALTER TABLE client

MODIFY client\_id INT;

DESCRIBE client;

INSERT INTO branch VALUES(1, 'Stampton', 1, '2012-07-14');

INSERT INTO branch VALUES(2, 'Hearton', 3, '2012-07-14');

INSERT INTO branch VALUES(3, 'Farton', 5, '2012-07-14');

INSERT INTO branch VALUES(4, 'Jabton', 4, '2012-07-14');

INSERT INTO branch VALUES(5, 'Poopton', 2, '2012-07-14');

UPDATE employee

SET branch\_id = 2

WHERE emp\_id = 3;

UPDATE employee

SET super\_id = 3

WHERE emp\_id = 5;

SELECT \* FROM employee;

INSERT INTO client VALUES(1, 'Milan', 3);

INSERT INTO client VALUES(2, 'Milan', 2);

INSERT INTO client VALUES(3, 'Onjo', 5);

INSERT INTO client VALUES(4, 'Agni', 4);

INSERT INTO client VALUES(5, 'Lilith', 1);

UPDATE client

SET client\_name = "Dasha"

WHERE client\_id = 2;

INSERT INTO sales VALUES(1, 3, 76000);

INSERT INTO sales VALUES(2, 4, 36000);

INSERT INTO sales VALUES(3, 2, 79000);

INSERT INTO sales VALUES(4, 1, 97000);

INSERT INTO sales VALUES(5, 5, 16000);

INSERT INTO branch\_supplier VALUES(1, 'Mago', 'Underwear');

INSERT INTO branch\_supplier VALUES(2, 'Lago', 'Vibrators');

INSERT INTO branch\_supplier VALUES(3, 'Fago', 'Computer');

INSERT INTO branch\_supplier VALUES(4, 'Filago', 'Toilet paper');

INSERT INTO branch\_supplier VALUES(5, 'Bujago', 'Orange juice');

DESCRIBE employee;

SELECT employee.first\_name, employee.last\_name, sales.total\_sales

FROM employee

JOIN sales

ON employee.emp\_id = sales.emp\_id && sales.total\_sales > 50000;

SELECT first\_name, last\_name FROM employee

WHERE sex = 'female' && (birth\_date >= '2000-09-09' || birth\_date < '2019-09-09');

SELECT \* FROM sales;

UPDATE employee

SET birth\_date = '2099-09-09'

WHERE emp\_id = 5;

SELECT emp\_id, SUM(total\_sales) FROM sales

GROUP BY emp\_id;

SELECT client\_id, client\_name FROM client

WHERE client\_name LIKE '%Corp.';

SELECT \* FROM client;

UPDATE client

SET client\_name = 'Lilith, Corp.'

WHERE client\_name = 'Lilith';

SELECT first\_name, last\_name FROM employee

WHERE birth\_date LIKE '\_\_\_\_-\_\_-09';

SELECT \* FROM employee;

SELECT emp\_id, first\_name, last\_name FROM employee

WHERE emp\_id >= 3

UNION

SELECT sales.total\_sales, sales.client\_id, branch.mgr\_id FROM sales

JOIN branch

ON sales.emp\_id = branch.mgr\_id

WHERE sales.client\_id >= 3;

SELECT \* FROM sales;

UPDATE sales

SET emp\_id = 5

WHERE emp\_id = 2;

SELECT client\_name FROM client

UNION

SELECT branch\_name FROM branch;

SELECT SUM(salary) FROM employee

UNION

SELECT SUM(total\_sales) FROM sales;

INSERT INTO branch VALUES(6, 'Buffalo', NULL, NULL);

SELECT employee.first\_name, employee.last\_name, branch.branch\_name FROM employee

JOIN branch

ON employee.branch\_id = branch.branch\_id

WHERE first\_name LIKE '%on';

SELECT employee.first\_name, sales.total\_sales FROM employee

JOIN sales

ON employee.emp\_id = sales.emp\_id

WHERE sales.total\_sales >= 79000

GROUP BY sales.emp\_id;

SELECT employee.first\_name FROM employee

WHERE employee.emp\_id IN (

SELECT sales.emp\_id FROM sales

WHERE sales.total\_sales >= 79000

GROUP BY sales.emp\_id

);

SELECT \* FROM client;

SELECT client.client\_name, client.client\_id FROM client

WHERE client.branch\_id IN (

SELECT branch.branch\_id FROM branch

WHERE branch.mgr\_id IN (

SELECT employee.emp\_id FROM employee

WHERE employee.emp\_id = 2

)

);

DELETE FROM sales

WHERE emp\_id = 3;

DESCRIBE sales;