**MySQL create, update, and delete exercise:**

CREATE TABLE person (

id INT NOT NULL AUTO\_INCREMENT,

name VARCHAR(50) NOT NULL,

age INT NOT NULL,

email VARCHAR(50) NOT NULL,

PRIMARY KEY (id)

);

CREATE TABLE address (

id INT NOT NULL AUTO\_INCREMENT,

person\_id INT NOT NULL,

street VARCHAR(50) NOT NULL,

city VARCHAR(50) NOT NULL,

country VARCHAR(50) NOT NULL,

PRIMARY KEY (id),

FOREIGN KEY (person\_id) REFERENCES person(id)

);

Text

Description automatically generated

INSERT INTO person (name, age, email) VALUES

('John', 25, 'john@example.com'),

('Jane', 30, 'jane@example.com'),

('Bob', 45, 'bob@example.com'),

('Alice', 35, 'alice@example.com'),

('Mike', 20, 'mike@example.com'),

('Sara', 50, 'sara@example.com'),

('Tom', 28, 'tom@example.com'),

('Emily', 42, 'emily@example.com'),

('David', 39, 'david@example.com'),

('Jessica', 27, 'jessica@example.com');

INSERT INTO address (person\_id, street, city, country) VALUES

(1, '123 Main St', 'Anytown', 'Anycountry'),

(2, '456 Oak St', 'Somecity', 'Somecountry'),

(3, '789 Elm St', 'Anothercity', 'Anothercoutry'),

(4, '321 Pine St', 'Somewhere', 'Somewherecountry'),

(5, '654 Maple St', 'Nowhere', 'Anywerecountry'),

(6, '987 Cedar St', 'Anywhere', 'Nowherecountry'),

(7, '654 Pine St', 'Nowhere', 'Somecountry'),

(8, '321 Cedar St', 'Othercity', 'Othercountry'),

(9, '789 Oak St', 'Somecity', 'Somecountry'),

(10, '123 Elm St', 'Anothercity', 'Anothercoutry');

A screenshot of a computer

Description automatically generated with low confidence

UPDATE person SET name = 'Paul', age = 25, email = 'paul@atu.ie' WHERE email = 'john@example.com';

SELECT \* FROM person p JOIN address a WHERE p.id = a.person\_id;

Graphical user interface

Description automatically generated

UPDATE address

SET street = 'college lane', city = 'Gort', country = 'Ireland'

WHERE person\_id = (SELECT id FROM person WHERE email = 'paul@atu.ie');

Graphical user interface, text

Description automatically generated

START TRANSACTION;

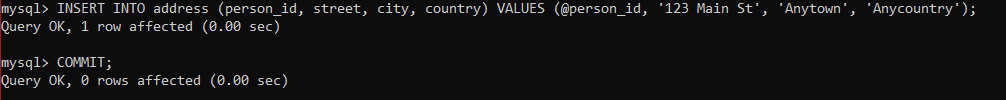
INSERT INTO person (name, age, email) VALUES ('John Doe', 25, 'john.doe@example.com');

SET @person\_id = LAST\_INSERT\_ID();

INSERT INTO address (person\_id, street, city, country) VALUES (@person\_id, '123 Main St', 'Anytown', 'Anycountry');

COMMIT;

Text

Description automatically generated 

SELECT \* FROM person p JOIN address a WHERE p.id = a.person\_id;

Graphical user interface

Description automatically generated

DELETE a FROM address a WHERE a.id = 11;

DELETE p FROM person p WHERE p.id = 11;

Text

Description automatically generated

SELECT \* FROM person p JOIN address WHERE p.id = a.person\_id;

Graphical user interface

Description automatically generated