-- Create database

DROP DATABASE IF EXISTS university;

CREATE DATABASE university;

USE university;

-- Create tables

CREATE TABLE professors (

id INT NOT NULL PRIMARY KEY AUTO\_INCREMENT,

first\_name VARCHAR(20),

last\_name VARCHAR(20),

email VARCHAR(50) UNIQUE,

nationality\_id VARCHAR(30) UNIQUE,

specialization VARCHAR(50),

salary FLOAT

);

CREATE TABLE professors\_phone\_numbers (

phone\_number VARCHAR(20) UNIQUE,

professor\_id INT,

FOREIGN KEY (professor\_id) REFERENCES professors(id),

PRIMARY KEY (phone\_number, professor\_id)

);

CREATE TABLE locations (

id INT NOT NULL AUTO\_INCREMENT,

city VARCHAR(20),

district VARCHAR(30),

street VARCHAR(50),

building INT,

apartment INT,

PRIMARY KEY (id)

);

CREATE TABLE colleges (

id INT NOT NULL PRIMARY KEY AUTO\_INCREMENT,

longitude FLOAT,

latitude FLOAT,

name VARCHAR(30),

professor\_id INT,

location\_id INT,

FOREIGN KEY (professor\_id) REFERENCES professors(id),

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

);

CREATE TABLE departments (

id INT NOT NULL AUTO\_INCREMENT,

college\_id INT,

name VARCHAR(50),

FOREIGN KEY (college\_id) REFERENCES colleges(id),

PRIMARY KEY (id, college\_id)

);

CREATE TABLE labs (

id INT NOT NULL AUTO\_INCREMENT,

name VARCHAR(50),

code INT,

college\_id INT,

FOREIGN KEY (college\_id) REFERENCES colleges(id),

PRIMARY KEY (id, college\_id)

);

CREATE TABLE photos (

id INT NOT NULL AUTO\_INCREMENT,

url VARCHAR(500),

PRIMARY KEY (id)

);

CREATE TABLE students (

id INT NOT NULL PRIMARY KEY AUTO\_INCREMENT,

first\_name VARCHAR(20),

last\_name VARCHAR(20),

nationality\_id VARCHAR(30),

email VARCHAR(50),

high\_school\_grade FLOAT,

created\_at DATE,

birth\_day DATE,

location\_id INT,

photo\_id INT,

department\_id INT,

college\_id INT,

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

FOREIGN KEY (photo\_id) REFERENCES photos(id),

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

);

CREATE TABLE students\_phone\_numbers (

phone\_number VARCHAR(20),

student\_id INT,

FOREIGN KEY (student\_id) REFERENCES students(id),

PRIMARY KEY (phone\_number, student\_id)

);

CREATE TABLE subjects (

id INT NOT NULL AUTO\_INCREMENT,

name VARCHAR(30),

code INT,

level INT,

units INT,

PRIMARY KEY(id)

);

CREATE TABLE student\_subject (

student\_id INT,

subject\_id INT,

grade FLOAT,

FOREIGN KEY (student\_id) REFERENCES students(id),

FOREIGN KEY (subject\_id) REFERENCES subjects(id),

PRIMARY KEY (student\_id, subject\_id)

);

CREATE TABLE common (

college\_id INT,

professor\_id INT,

student\_id INT,

subject\_id INT,

FOREIGN KEY (college\_id) REFERENCES colleges(id),

FOREIGN KEY (professor\_id) REFERENCES professors(id),

FOREIGN KEY (student\_id) REFERENCES students(id),

FOREIGN KEY (subject\_id) REFERENCES subjects(id),

PRIMARY KEY (college\_id, professor\_id, student\_id, subject\_id)

);