---Exercise 2

-- CREATE TABLE subject(

-- subject\_id SERIAL PRIMARY KEY,

-- name VARCHAR(40) NOT NULL,

-- level\_code INT NOT NULL

-- );

-- CREATE TABLE employee(

-- employee\_id SERIAL PRIMARY KEY,

-- first\_name VARCHAR(40) NOT NULL,

-- last\_name VARCHAR(40) NOT NULL

-- );

---Exercise 3

-- CREATE TABLE student(

-- student\_id SERIAL PRIMARY KEY,

-- name VARCHAR(40) NOT NULL,

-- enrolment\_status CHAR(9) NOT NULL,

-- CONSTRAINT enrolment\_status CHECK (enrolment\_status IN ('part-time', 'full-time'))

-- );

--Ex3a

-- CREATE TABLE student\_subject(

-- student\_id INT NOT NULL,

-- subject\_id INT NOT NULL,

-- semester\_offering CHAR(10) NOT NULL,

-- CONSTRAINT check\_semester\_offering CHECK(semester\_offering IN ('semester 1','semester 2')),

-- FOREIGN KEY(student\_id) REFERENCES student(student\_id),

-- FOREIGN KEY(subject\_id) REFERENCES subject(subject\_id)

-- );

--EX4

-- CREATE TABLE faculty(

-- faculty\_id SERIAL PRIMARY KEY,

-- faculty\_name VARCHAR(40) NOT NULL

-- );

-- CREATE TABLE student\_faculty(

-- student\_id INT NOT NULL,

-- faculty\_id INT NOT NULL,

-- join\_date DATE NOT NULL,

-- PRIMARY KEY(student\_id,faculty\_id),

-- FOREIGN KEY(student\_id) REFERENCES student(student\_id),

-- FOREIGN KEY(faculty\_id) REFERENCES faculty(faculty\_id)

-- );

--EX5

-- CREATE TABLE university\_role (

-- role\_id SERIAL PRIMARY KEY,

-- role\_name VARCHAR(50) NOT NULL

-- );

-- CREATE TABLE employee\_role (

-- employee\_id INT NOT NULL,

-- role\_id INT NOT NULL,

-- PRIMARY KEY (employee\_id, role\_id),

-- FOREIGN KEY (employee\_id) REFERENCES employee (employee\_id),

-- FOREIGN KEY (role\_id) REFERENCES university\_role (role\_id)

-- );

--EX6

-- INSERT INTO employee (first\_name, last\_name)

-- VALUES

-- ('John', 'Doe'),

-- ('Jane', 'Smith'),

-- ('Mary', 'Johnson'),

-- ('Mike', 'Wilson'),

-- ('Sarah', 'Jones'),

-- ('Robert', 'Brown'),

-- ('Emma', 'Lee');

--INSERT INTO employee\_role (employee\_id, role\_id)

-- VALUES

-- (1, 8),

-- (2, 9),

-- (3, 10),

-- (4, 11),

-- (5, 12),

-- (6, 13),

-- (7, 14);

-- INSERT INTO faculty (faculty\_name)

-- VALUES

-- ('Faculty of Computer Science'),

-- ('Faculty of Arts'),

-- ('Faculty of Science'),

-- ('Faculty of Engineering'),

-- ('Faculty of Design and Planning'),

-- ('Faculty of Mathematics');

-- INSERT INTO university\_role (role\_name)

-- VALUES

-- ('Education Admin'),

-- ('Tutor'),

-- ('Lecturer'),

-- ('Customer Support'),

-- ('Research Assistant'),

-- ('Software Developer'),

-- ('Academic');

-- INSERT INTO student (name, enrolment\_status)

-- VALUES

-- ('Alice Smith', 'full-time'),

-- ('Bob Johnson', 'part-time'),

-- ('Charlie Brown', 'full-time'),

-- ('David Davis', 'part-time'),

-- ('Alice Dav', 'full-time'),

-- ('Boby John', 'part-time'),

-- ('Charly Brownie', 'full-time'),

-- ('David Smith', 'part-time'),

-- ('Bob Smith', 'full-time'),

-- ('Bob Fedderer', 'part-time'),

-- ('Charlie Nadal', 'full-time'),

-- ('David Djokovic', 'part-time');

-- INSERT INTO subject (name, level\_code)

-- VALUES

-- ('Introduction to Programming', 100),

-- ('Logic', 100),

-- ('Data Structures', 200),

-- ('Object Oriented Programming', 200),

-- ('Databases', 300),

-- ('Analysis of Digital Art and Media', 200),

-- ('Interaction Design', 300),

-- ('Differential Calculus', 100),

-- ('Linear Algebra', 100),

-- ('Discrete Mathematics', 200),

-- ('Formal Languages and Logic', 300);

-- INSERT INTO student\_subject (student\_id, subject\_id, semester\_offering)

-- VALUES

-- (13, 1, 'semester 1'),

-- (13, 2, 'semester 2'),

-- (14, 1, 'semester 2'),

-- (14, 3, 'semester 1'),

-- (15, 4, 'semester 2'),

-- (15, 4, 'semester 1'),

-- (16, 5, 'semester 1'),

-- (16, 6, 'semester 2'),

-- (17, 5, 'semester 2'),

-- (17, 7, 'semester 1'),

-- (18, 8, 'semester 2'),

-- (18, 8, 'semester 1'),

-- (19, 9, 'semester 1'),

-- (19, 10, 'semester 2'),

-- (20, 10, 'semester 1'),

-- (21, 11, 'semester 1'),

-- (21, 1, 'semester 2'),

-- (20, 11, 'semester 2');

-- INSERT INTO student\_faculty (student\_id, faculty\_id, join\_date)

-- VALUES

-- (13, 1, '2020-08-01'),

-- (14, 2, '2020-08-01'),

-- (15, 1, '2020-08-01'),

-- (16, 3, '2022-08-01'),

-- (17, 4, '2019-08-01'),

-- (18, 4, '2021-08-01'),

-- (19, 5, '2020-08-01'),

-- (20, 6, '2020-08-01'),

-- (21, 6, '2020-08-01');

--EX7

-- ALTER TABLE faculty

-- ADD COLUMN campus VARCHAR(40) NOT NULL DEFAULT 'Penrith';

--EX8

-- UPDATE faculty

-- SET campus = 'Ultimo'

-- WHERE faculty\_id>3;

-- ALTER TABLE subject

-- ADD COLUMN campus VARCHAR(40) NOT NULL DEFAULT 'Penrith'

-- CONSTRAINT check\_campus CHECK(campus IN ('Penrith','Ultimo'))

--Ex9

-- ALTER TABLE student

-- ADD COLUMN age INT NOT NULL DEFAULT 16;

--Ex10

-- ALTER TABLE student

-- ADD CONSTRAINT check\_age CHECK(age>=16);

--EX11

-- ALTER TABLE student

-- ADD COLUMN current\_student BOOL NOT NULL DEFAULT true,

-- ADD CONSTRAINT check\_if\_current CHECK(current\_student OR age>=16);

--EX12

-- ALTER TABLE employee

-- ADD COLUMN email VARCHAR(128),

-- ADD CONSTRAINT UNI\_email UNIQUE (email);