CREATE TABLE IF NOT EXISTS users (

user\_id serial NOT NULL,

complete\_name varchar(100) NOT NULL,

contact varchar(20) NOT NULL,

address varchar(100) NOT NULL,

username varchar(100) NOT NULL,

password varchar(100) NOT NULL,

PRIMARY KEY (user\_id)

);

CREATE TABLE IF NOT EXISTS membership (

membership\_id serial NOT NULL,

membership\_name varchar(100) NOT NULL,

address varchar(100) NOT NULL,

contact varchar(20) NOT NULL,

email varchar(20) NOT NULL,

gender varchar(100) NOT NULL,

joining\_date date NOT NULL,

end\_of\_membership\_date date NOT NULL,

user\_id int NOT NULL,

PRIMARY KEY (membership\_id),

FOREIGN KEY (user\_id)

REFERENCES users(user\_id) ON UPDATE CASCADE

);

CREATE TABLE IF NOT EXISTS payment (

payment\_id serial NOT NULL,

membership\_id int NOT NULL,

amount float NOT NULL,

payment\_date date NOT NULL,

user\_id int NOT NULL,

PRIMARY KEY (payment\_id),

FOREIGN KEY (membership\_id)

REFERENCES membership (membership\_id) ON UPDATE CASCADE,

FOREIGN KEY (user\_id)

REFERENCES users (user\_id) ON UPDATE CASCADE

);

CREATE TABLE IF NOT EXISTS membershiptype(

type\_id serial NOT NULL,

type\_name varchar(100) NOT NULL,

membership\_period varchar(100) NOT NULL,

signup\_fee float NOT NULL,

user\_id int NOT NULL,

PRIMARY KEY (type\_id),

FOREIGN KEY (user\_id)

REFERENCES users (user\_id) ON UPDATE CASCADE

);

CREATE TABLE IF NOT EXISTS instructor(

instructor\_id serial NOT NULL,

instructor\_name varchar(100) NOT NULL,

contact varchar(20) NOT NULL,

address varchar(100) NOT NULL,

email varchar(20) NOT NULL,

user\_id int NOT NULL,

PRIMARY KEY (instructor\_id),

FOREIGN KEY (user\_id)

REFERENCES users (user\_id) ON UPDATE CASCADE

);

CREATE TABLE IF NOT EXISTS workout(

workout\_id serial NOT NULL,

workout\_name varchar(100) NOT NULL,

description varchar(100) NOT NULL,

PRIMARY KEY (workout\_id)

);

CREATE TABLE IF NOT EXISTS workoutplan(

plan\_id serial NOT NULL,

membership\_id int NOT NULL,

workout\_id int NOT NULL,

work\_out\_time timestamp without time zone NOT NULL,

work\_out\_date date NOT NULL,

instructor\_id int NOT NULL,

PRIMARY KEY (plan\_id),

FOREIGN KEY (membership\_id)

REFERENCES membership (membership\_id) ON UPDATE CASCADE,

FOREIGN KEY (instructor\_id)

REFERENCES instructor (instructor\_id) ON UPDATE CASCADE,

FOREIGN KEY (workout\_id)

REFERENCES workout(workout\_id) ON UPDATE CASCADE

);