

Project

Welcome

crtdb.sql



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```
1
2 PRAGMA foreign_keys = ON;
3
4 -- Create Member table
5 CREATE TABLE Member (
6     memberId INTEGER PRIMARY KEY AUTOINCREMENT,
7     name VARCHAR(50) NOT NULL,
8     email VARCHAR(50) NOT NULL,
9     phone VARCHAR(15),
10    address VARCHAR(100),
11    age INTEGER CHECK (age >= 15),
12    membershipStartDate TEXT NOT NULL,
13    membershipEndDate TEXT NOT NULL CHECK (membershipEndDate >= membershipStartDate)
14 );
15
16 --Instructor table
17 CREATE TABLE Instructor (
18     instructorId INTEGER PRIMARY KEY AUTOINCREMENT,
19     name VARCHAR(50) NOT NULL,
20     specialty VARCHAR(50),
21     phone VARCHAR(15),
22     email VARCHAR(100) NOT NULL
23 );
24
25
26 -- GymFacility table
27 CREATE TABLE GymFacility (
28     gymId INTEGER PRIMARY KEY AUTOINCREMENT,
29     location VARCHAR(100) NOT NULL,
```

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```
25
26 -- GymFacility table
27 CREATE TABLE GymFacility (
28     gymId INTEGER PRIMARY KEY AUTOINCREMENT,
29     location VARCHAR(100) NOT NULL,
30     phone VARCHAR(50),
31     manager VARCHAR(50)
32 );
33
34 -- Class table
35 CREATE TABLE Class (
36     classId INTEGER PRIMARY KEY AUTOINCREMENT,
37     className VARCHAR(50) NOT NULL,
38     classType VARCHAR(20) CHECK (classType IN ('Yoga', 'Acrobats', 'Cardio', 'Weight-Lifting')),
39     duration INTEGER NOT NULL,
40     classCapacity INTEGER NOT NULL,
41     instructorId INTEGER,
42     gymId INTEGER,
43     FOREIGN KEY (instructorId) REFERENCES Instructor(instructorId),
44     FOREIGN KEY (gymId) REFERENCES GymFacility(gymId)
45 );
46
47 -- Equipment table
48 CREATE TABLE Equipment (
49     equipmentId INTEGER PRIMARY KEY AUTOINCREMENT,
50     name VARCHAR(50) NOT NULL,
51     type VARCHAR(30) CHECK (type IN ('Cardio', 'Flexibility', 'Recovery', 'Strength')),
52     quantity INTEGER,
53     gymId INTEGER,
```

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```
48 CREATE TABLE Equipment (  
49     equipmentId INTEGER PRIMARY KEY AUTOINCREMENT,  
50     name VARCHAR(50) NOT NULL,  
51     type VARCHAR(30) CHECK (type IN ('Cardio', 'Flexibility', 'Recovery', 'Strength')),  
52     quantity INTEGER,  
53     gymId INTEGER,  
54     FOREIGN KEY (gymId) REFERENCES GymFacility(gymId)  
55 );  
56  
57 -- MembershipPlan table  
58 CREATE TABLE MembershipPlan (  
59     planId INTEGER PRIMARY KEY AUTOINCREMENT,  
60     planType VARCHAR(20) CHECK (planType IN ('Monthly', 'Annual')),  
61     cost NUMERIC NOT NULL  
62 );  
63  
64 -- Payment table  
65 CREATE TABLE Payment (  
66     paymentId INTEGER PRIMARY KEY AUTOINCREMENT,  
67     memberId INTEGER,  
68     planId INTEGER,  
69     amountPaid REAL NOT NULL,  
70     paymentDate TEXT NOT NULL,  
71     FOREIGN KEY (memberId) REFERENCES Member(memberId),  
72     FOREIGN KEY (planId) REFERENCES MembershipPlan(planId)  
73 );  
74 -- Attendance table  
75 CREATE TABLE Attendance (  
76     attendanceId INTEGER PRIMARY KEY AUTOINCREMENT,  
77     memberId INTEGER,  
78     gymId INTEGER,  
79     date TEXT NOT NULL,  
80     time TEXT NOT NULL,  
81     FOREIGN KEY (memberId) REFERENCES Member(memberId),  
82     FOREIGN KEY (gymId) REFERENCES GymFacility(gymId)
```

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```
56
57 -- MembershipPlan table
58 CREATE TABLE MembershipPlan (
59     planId INTEGER PRIMARY KEY AUTOINCREMENT,
60     planType VARCHAR(20) CHECK (planType IN ('Monthly', 'Annual')),
61     cost NUMERIC NOT NULL
62 );
63
64 -- Payment table
65 CREATE TABLE Payment (
66     paymentId INTEGER PRIMARY KEY AUTOINCREMENT,
67     memberId INTEGER,
68     planId INTEGER,
69     amountPaid REAL NOT NULL,
70     paymentDate TEXT NOT NULL,
71     FOREIGN KEY (memberId) REFERENCES Member(memberId),
72     FOREIGN KEY (planId) REFERENCES MembershipPlan(planId)
73 );
74 -- Attendance table
75 CREATE TABLE Attends (
76     memberId INTEGER,
77     classId INTEGER,
78     attendanceDate TEXT NOT NULL,
79     PRIMARY KEY (memberId, classId, attendanceDate),
80     FOREIGN KEY (memberId) REFERENCES Member(memberId),
81     FOREIGN KEY (classId) REFERENCES Class(classId)
82 );
83
```


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Restricted Mode is intended for safe code browsing. Trust this window to enable all features. ManageLearn More

SimpleShell.cpp-- Insert Member records Untitled-1

```
1  -- Insert Member records
2  INSERT INTO Member (name, email, phone, address, age, membershipStartDate, membershipEndDate) VALUES
3  ('John Doe', 'johnd@email.com', '1234567890', '123 Main St', 25, '2024-01-01', '2025-01-01'),
4  ('Jane Smith', 'janes@email.com', '9876543210', '456 Oak St', 30, '2024-02-01', '2025-02-01'),
5  ('Alice Johnson', 'alicej@email.com', '5556667777', '789 Pine St', 40, '2024-03-01', '2024-04-01'),
6  ('Bob Brown', 'bobb@email.com', '2223334444', '321 Street St', 35, '2024-04-01', '2025-04-01'),
7  ('Maria Garcia', 'mariag@email.com', '9998887777', '654 Green St', 28, '2024-05-01', '2025-05-01');
8
9  -- Insert Instructor records
10 INSERT INTO Instructor (name, specialty, phone, email) VALUES
11 ('James Johnson', 'Yoga', '1231231234', 'jamesj@email.com'),
12 ('Sarah Smith', 'Cardio', '4564564567', 'sarah@email.com'),
13 ('Tom Harris', 'Weight-Lifting', '7897897890', 'tomh@email.com'),
14 ('Laura Wilson', 'Acrobatics', '3213213210', 'lauraw@email.com'),
15 ('Emma Davis', 'Cardio', '6546546543', 'emmad@email.com');
16
17 -- Insert GymFacility records
18 INSERT INTO GymFacility (location, phone, manager) VALUES
19 ('Downtown', '1112223333', 'Mark Spencer'),
20 ('Uptown', '4445556666', 'Anna Bell'),
21 ('Suburb', '7778889999', 'Chris Jordan'),
22 ('City Center', '1213141516', 'Katie Green'),
23 ('Westside', '1718192021', 'James Carter');
24
25 -- Insert Class records
26 INSERT INTO Class (className, classType, duration, classCapacity, instructorId, gymId) VALUES
27 ('Morning Yoga', 'Yoga', 60, 20, 1, 1),
28 ('Evening Cardio', 'Cardio', 45, 25, 2, 2),
29 ('Strength Training', 'Weight-Lifting', 90, 15, 3, 3),
30 ('Acrobatics Basics', 'Acrobats', 75, 10, 4, 4),
31 ('Advanced Cardio', 'Cardio', 50, 30, 5, 5);
32
33 -- Insert Equipment records
34 INSERT INTO Equipment (name, type, quantity, gymId) VALUES
35 ('Treadmill', 'Cardio', 5, 2),
36 ('Barbell', 'Strength', 2, 3),
37 ('Resistance Band', 'Flexibility', 20, 4),
```

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