Replit link:
https://replit.com/@CISFITNESS23/FITNESS-DATABASE?v=1

```
CREATE TABLE Suppliers (
SupplierID NUMBER NOT NULL,
Supplier_name VARCHAR (100),
Street VARCHAR (100),
Zip NUMBER,
Email VARCHAR (100),
Phone_number NUMBER,
CONSTRAINT pk_suppliers PRIMARY KEY (SupplierID),
CONSTRAINT fk_suppliers FOREIGN KEY (Zip) REFERENCES ZipCodes (Zip)
)
```

1
```
 CREATE TABLE ZIPCodes (
Zip NUMBER NOT NULL,
City VARCHAR (100),
State VARCHAR (100),
CONSTRAINT pk_Zip PRIMARY KEY (Zip)
)
```

```
CREATE TABLE Products (
ProductID NUMBER NOT NULL,
Product_name VARCHAR (100),
Product_description VARCHAR (300),
Product_quantity NUMBER,
Category VARCHAR (100),
SupplierID NUMBER,
CONSTRAINT pk_Products PRIMARY KEY
CONSTRAINT fk_Products FOREIGN KEY (SupplierID) REFERENCES Suppliers (SupplierID)
)
```

```
CREATE TABLE Order_Detail (
Order_Detail_ID NUMBER NOT NULL,
Quantity NUMBER,
Total NUMBER,
ProductID NUMBER,
OrderID NUMBER,
CONSTRAINT pk_Order_Detail PRIMARY KEY
CONSTRAINT fk1_Order_Detail FOREIGN KEY (OrderID) REFERENCES Order(OrderID)
CONSTRAINT fk2_ProductID FOREIGN KEY (ProductID) REFERENCES Products (ProductID)
)
```

```
CREATE TABLE Order (
OrderID NUMBER NOT NULL,
Date_of_order DATE,
Order_details VARCHAR (300)
EmployeeID NUMBER,
CONSTRAINT pk_Order PRIMARY KEY (OrderID)
CONSTRAINT fk_Order FOREIGN KEY (EmployeeID) REFERENCES Staff (EmployeeID)
)

CREATE TABLE  Staff  (
EmployeeID NUMBER NOT NULL,
First_Name VARCHAR (100),
Last_Name VARCHAR (100),
Street  VARCHAR (100),
Zip NUMBER,
Phone_number NUMBER,
Start_date DATE,
End_date DATE,
Salary NUMBER,
CONSTRAINT pk_Staff PRIMARY KEY (EmployeeID)
CONSTRAINT fk_Staff FOREIGN KEY (Zip) REFERENCES ZipCodes (Zip)
)



CREATE TABLE Trainer_Class (
EmployeeID NUMBER NOT NULL
ClassID NUMBER NOT NULL
SessionID NUMBER NOT NULL
Start_date DATE
End_date DATE
CONSTRAINT fk1_Trainer_Class FOREIGN KEY (EmployeeID) REFERENCES Staff (EmployeeID)
CONSTRAINT fk2_Trainer_Class FOREIGN KEY (ClassID) REFERENCES Class (ClassID)
CONSTRAINT fk3_Trainer_Class FOREIGN KEY (SessionID) REFERENCES Sessions (SessionID)
CONSTRAINT pk_Trainer_Class PRIMARY KEY (EmployeeID,ClassID,SessionID)



CREATE TABLE Class_type (
ClassID NUMBER NOT NULL,
Class_name VARCHAR (100),
Equipment_required VARCHAR (300),
```

```
CREATE TABLE Rooms (
Room_ number NUMBER NOT NULL,
Capacity NUMBER,
Room_equipment VARCHAR (300),
Room_type VARCHAR (100),
CONSTRAINT pk_Rooms PRIMARY KEY (Room_number)
)



CREATE TABLE Sessions (
SessionID NUMBER NOT NULL,
Session_date DATE,
Start_time TIME,
End_time TIME,
Amt_participants NUMBER,
Time_length NUMBER,
Session_cost NUMBER,
Room_number NUMBER,
CONSTRAINT pk_Sessions PRIMARY KEY (SessionID)
CONSTRAINT fk_Sessions FOREIGN KEY (Room_number) REFERENCES Rooms (Room_number)
)



CREATE TABLE Session_reservation (
MemberID NUMBER NOT NULL,
SessionID NUMBER NOT NULL,
Reservation_date DATE,
Cancellation_date DATE,
Invoice_num NUMBER,
CONSTRAINT pk1_Session_reservation PRIMARY KEY ( MemberID)
CONSTRAINT pk2_Session_reservation PRIMARY KEY (SessionID)
CONSTRAINT fk_Session_reservation FOREIGN KEY (Invoice_num) REFERENCES Invoice (Invoice_num)
)
```

```
CREATE TABLE Members (
MemberID NUMBER NOT NULL,
First_name VARCHAR (100),
Last_name VARCHAR (100),
Street VARCHAR (100),
Zip NUMBER,
Email VARCHAR (100),
Phone_number NUMBER,
Membership_start_date DATE,
CONSTRAINT pk_Members PRIMARY KEY (MemberID)
CONSTRAINT fk_Members FOREIGN KEY (Zip) REFERENCES ZipCodes (Zip)
)

CREATE TABLE Invoice (
Invoice_num NUMBER NOT NULL,
Due_date DATE,
Amount NUMBER,
MemberID NUMBER,
CONSTRAINT pk_Invoice PRIMARY KEY (Invoice_num)
CONSTRAINT fk_Invoice FOREIGN KEY (MemberID) REFERENCES Members (MemberID)
)

CREATE TABLE Payment (
TransactionID NUMBER NOT NULL,
Payment_date DATE,
Credit_card_num NUMBER,
Street VARCHAR  (100),
Zip NUMBER,
Invoice_num NUMBER,
CONSTRAINT pk_Payment PRIMARY KEY (TransactionID)
CONSTRAINT fk1_payment FOREIGN KEY (Invoice_num) REFERENCES Invoice (Invoice_num)
CONSTRAINT fk2_payment FOREIGN KEY (Zip) REFERENCES ZipCodes (Zip)
CONSTRAINT fk3_payment FOREIGN KEY (Credit_card_num) REFERENCES Credit_card (Credit_card_num)
)

CREATE TABLE Credit_card (
Credit_card_num NUMBER NOT NULL,
```

```sql
INSERT INTO suppliers (SupplierID, Supplier_name, Street, Zip, Email, Phone_number, Zip_Codes)
VALUES
(1, 'Fitness Depot', '123 Main St', '12345', 'fitnessdepot@example.com', '(555) 555-5555', '12345'),
(2, 'Gym Supply', '456 Elm St', '54321', 'gymsupply@example.com', '(555) 555-1234', '54321'),
(3, 'Workout World', '789 Oak Ave', '67890', 'workoutworld@example.com', '(555) 555-9876', '67890'),
(4, 'Fitness Equipment', '321 Oak Lane', '12346', 'fitnessequipment@example.com', '(555) 555-1111', '12346'),
(5, 'Sports Gear', '654 Pine St', '23456', 'sportsgear@example.com', '(555) 555-2222', '23456'),
(6, 'Fitness Plus', '987 Maple Rd', '23457', 'fitnessplus@example.com', '(555) 555-3333', '23457');


INSERT INTO Zip_Codes (Zip, City, State)
VALUES
    (12345, 'Smallville', 'NY'),
    (54321, 'Metropolis', 'NY'),
    (67890, 'Gotham City', 'NY'),
    (12346, 'Springfield', 'IL'),
    (23456, 'Shelbyville', 'IL'),
    (23457, 'Capital City', 'IL'),
    (10001, 'Central City', 'IL'),
    (10002, 'South Park', 'CO'),
    (10003, 'North Beach', 'CA'),
    (10004, 'New York City', 'NY'),
    (10005, 'Buffalo', 'NJ'),
    (10006, 'Syracuse', 'NY'),
    (10007, 'Albany', 'MA'),
    (10008, 'New Rochelle', 'CO'),
    (56789, 'Queens', 'NY'),
    (9876, 'Bronx', 'NY'),
```

```sql
  (10009, 'yonkers', 'NY'),
  (10010, 'Rochester', 'NY'),
  (45678, 'Fresno', 'CA'),
  (78901, 'San Diego', 'CA'),
  (12345, 'Sacramento', 'CA'),
  (54321, 'Staten Island', 'NY'),
  (67890, 'San Jose', 'CA'),
  (34567, 'Bakerfield', 'CA'),
  (45678, 'Vernon', 'NY'),
  (78901, 'East field', 'NY'),
  (10011, 'Utica', 'NY'),
  (10012, 'Westfield', 'NY'),
  (10013, 'Long beach', 'CA');
```

```sql
INSERT INTO products (ProductID, Product_name, Product_description, Product_quantity,
Category, SupplierID)
VALUES
  (101, 'Dumbbells', 'Set of 3 dumbbells', 20, 'Weights', 1),
  (102, 'Yoga Mat', 'Non-slip yoga mat', 30, 'Yoga', 2),
  (103, 'Treadmill', 'High-performance treadmill', 5, 'Cardio', 3),
  (104, 'Kettlebell set', 'Set of 3 kettlebells with stand', 10, 'Weights', 4),
  (105, 'Resistance band', 'Pack of 5 different resistance bands', 25, 'Weights', 5),
  (106, 'Exercise bike', 'Recumbent exercise bike with LCD screen', 7, 'Cardio', 6);
```

```sql
INSERT INTO order_details (Order_Detail, Quantity, Total, ProductID, OrderID)
VALUES
  (1, 2, 60, 101, 1001),
  (2, 1, 50, 102, 1002),
  (3, 1, 100, 103, 1003),
  (4, 3, 90, 101, 1004),
  (5, 2, 100, 103, 1005),
  (6, 1, 60, 102, 1006);
```

INSERT INTO orders (OrderID, Date_of_order, Order_details, EmployeeID)
VALUES
(1001, '2022-01-01', 'Set of dumbbells', 1),
(1002, '2022-01-05', 'Yoga mat', 2),
(1003, '2022-01-10', 'Treadmill', 3),
(1004, '2022-01-15', 'Set of dumbbells', 4),
(1005, '2022-01-20', 'Treadmill', 5),
(1006, '2022-01-23', 'Yoga mat', 6);

INSERT INTO staff (EmployeeID, First_Name, Last_Name, Street, Zip, Phone_number, Start_date, End_date, Salary)
VALUES
(1, 'John', 'Smith', '123 Main St', '10001', '(212) 555-1234', '2020-01-01', NULL, 50000),
(2, 'Mary', 'Johnson', '456 Park Ave', '10002', '(212) 555-2345', '2020-02-01', NULL, 55000),
(3, 'David', 'Brown', '789 Broadway', '10003', '(212) 555-3456', '2020-03-01', '2022-03-01', 60000),
(4, 'Sarah', 'Wilson', '101 Fifth Ave', '10004', '(212) 555-4567', '2020-04-01', NULL, 65000),
(5, 'James', 'Anderson', '222 Second St', '10005', '(212) 555-5678', '2020-05-01', NULL, 70000),
(6, 'Emily', 'Martinez', '333 Third Ave', '10006', '(212) 555-6789', '2020-06-01', NULL, 75000),
(7, 'Ryan', 'Clark', '444 Fourth St', '10007', '(212) 555-7890', '2020-07-01', NULL, 80000),
(8, 'Amy', 'Lee', '555 Fifth Ave', '10008', '(212) 555-8901', '2020-08-01', NULL, 85000);
INSERT INTO Trainer_Class (employeeID, ClassID, SessionID, Start_date, End_date)
VALUES
   (1, 101, 1, '2023-05-01', '2023-05-30'),
   (2, 102, 2, '2023-05-01', '2023-05-30'),
   (3, 101, 3, '2023-05-01', '2023-05-30'),
   (4, 102, 4, '2023-06-01', '2023-06-30'),
   (5, 101, 5, '2023-06-01', '2023-06-30');

INSERT INTO class_type (ClassID, Class_name, Equipment_required)
VALUES
   (101, 'Yoga', 'Yoga mats'),
   (102, 'Spinning', 'Spinning bikes'),
   (103, 'Body Pump', 'Dumbbells'),
   (104, 'Pilates', 'Yoga mats'),
   (105, 'Zumba', 'None'),
   (106, 'Boxing', 'Gloves and Punching bags');

INSERT INTO rooms (Room_number, Capacity, Room_equipment, Room_type) VALUES
  (1, 20, 'Treadmills', 'Cardio'),
  (2, 10, 'Free weights', 'Strength'),
  (3, 15, 'Ellipticals', 'Cardio'),
  (4, 25, 'Rowing machines', 'Cardio'),
  (5, 20, 'Weight machines', 'Strength');

INSERT INTO sessions (SessionID, Session_date, start_time, end_time, amt_participants, time_Length, session_cost, room_number)
VALUES
(1, '2023-05-02', '10:00:00', '11:30:00', 15, '1.5 hours', 20, 1),
(2, '2023-05-05', '18:00:00', '19:30:00', 10, '1.5 hours', 25, 2),
(3, '2023-05-08', '11:00:00', '12:30:00', 20, '1.5 hours', 15, 3),
(4, '2023-06-05', '09:00:00', '10:30:00', 12, '1.5 hours', 30, 4),
(5, '2023-06-08', '17:00:00', '18:30:00', 18, '1.5 hours', 25, 5);

INSERT INTO Session_Reservation (memberID, sessionID, reservation_date, cancellation_date, invoice_num)
VALUES
(1, 1, '2023-05-01', NULL, 1),
(2, 1, '2023-05-01', NULL, 2),
(3, 2, '2023-05-04', NULL, 3),
(4, 3, '2023-05-05', NULL, 4),
(5, 3, '2023-05-05', '2023-05-07', 5),
(6, 4, '2023-06-01', NULL, 6);

INSERT INTO members (memberID, first_Name, last_Name, street, zip, email, phone_number, membership_Start_date)
VALUES
  (1, 'John', 'Doe', '123 Main St', '12345', 'john.doe@example.com', '555-123-4567', '2023-04-01'),
  (2, 'Jane', 'Smith', '456 Broadway', '54321', 'jane.smith@example.com', '555-987-6543', '2023-04-01'),
  (3, 'Tom', 'Brown', '789 Oak Ave', '67890', 'tom.brown@example.com', '555-555-5555', '2023-04-15'),
  (4, 'Amy', 'Garcia', '456 Elm St', '56789', 'amy.garcia@example.com', '555-555-1234', '2023-05-01'),
  (5, 'Chris', 'Lee', '789 Pine St', '9876', 'chris.lee@example.com', '555-555-4321', '2023-05-01'),

(6, 'Katie', 'Wong', '321 Oak St', '23456', 'katie.wong@example.com', '555-123-7890', '2023-06-01');

INSERT INTO invoice (invoice_num, due_date, amount, memberID)
VALUES
    (1001, '2022-01-31', 150, 1),
    (1002, '2022-02-28', 175, 2),
    (1003, '2022-03-31', 200, 3),
    (1004, '2022-04-30', 225, 4),
    (1005, '2022-05-31', 250, 5),
    (1006, '2022-06-30', 275, 1),
    (1007, '2022-07-31', 300, 2),
    (1008, '2022-08-31', 325, 3),
    (1009, '2022-09-30', 350, 4),
    (1010, '2022-10-31', 375, 5);

INSERT INTO payment (TransactionID, payment_date, credit_card_num, street, zip, invoice_num)
VALUES
(5001, '2022-01-30', '1234567890123456', '123 Main St', '10001', 1001),
(5002, '2022-02-27', '9876543210987654', '456 Park Ave', '10002', 1002),
(5003, '2022-03-30', '5555666677778888', '789 Broadway', '10003', 1003),
(5004, '2022-04-29', '4444333322221111', '101 Fifth Ave', '10004', 1004),
(5005, '2022-05-30', '1111222233334444', '222 Second St', '10005', 1005),
(5006, '2022-06-28', '2222333344445555', '333 Third St', '10006', 1006),
(5007, '2022-07-30', '6666777788889999', '444 Fourth St', '10007', 1007),
(5008, '2022-08-31', '7777888899991111', '555 Fifth St', '10008', 1008),
(5009, '2022-09-29', '9999888877776666', '666 Sixth St', '10009', 1009),
(5010, '2022-10-30', '5555444433332222', '777 Seventh St', '10010', 1010);

INSERT INTO credit_card (credit_card_num, card_type, security_code, expiration_date)
VALUES
('1234567890123456', 'Visa', '123', '2023-05-25'),
('9876543210987654', 'Mastercard', '456', '2023-05-26'),
('5555666677778888', 'American Express', '789', '2023-05-27'),
('4444333322221111', 'Discover', '321', '2023-05-28'),
('1111222233334444', 'Visa', '567', '2023-05-29'),
('2222333344445555', 'Mastercard', '234', '2023-05-30'),
('6666777788889999', 'American Express', '432', '2023-05-31'),

```
('7777888899991111', 'Discover', '876', '2023-06-01'),
('9999888877776666', 'Visa', '345', '2023-06-02'),
('5555444433332222', 'Mastercard', '678', '2023-06-03');
```