

-- Team 1 Project - Braden Bourgeois, Jeremy Bisek, Hanan Afzehl,
Hamzah

Use your own database

USE ??????_database;

SET foreign_key_checks = 0;

DROP TABLE IF EXISTS class;
DROP TABLE IF EXISTS classpackage;
DROP TABLE IF EXISTS customer;
DROP TABLE IF EXISTS employee;
DROP TABLE IF EXISTS instructor;
DROP TABLE IF EXISTS instructorpayment;
DROP TABLE IF EXISTS payment;
DROP TABLE IF EXISTS register;
DROP TABLE IF EXISTS sale;
DROP TABLE IF EXISTS work_schedule;
DROP VIEW IF EXISTS instructorclassschedule;
DROP VIEW IF EXISTS customerclassregistrations;

CREATE TABLE class (
 classID int(11) NOT NULL,
 classname varchar(100) DEFAULT NULL,
 classtemp decimal(5,2) DEFAULT NULL,
 startTime time DEFAULT NULL,
 endTime time DEFAULT NULL,
 classDate date DEFAULT NULL,
 spotsAvailable int(11) DEFAULT NULL,
 instructorID int(11) DEFAULT NULL,
 PRIMARY KEY (classID),
 KEY fk_instructor (instructorID),
 CONSTRAINT fk_instructor FOREIGN KEY (instructorID) REFERENCES
instructor (instructorID)
);

CREATE TABLE instructorpayment (
 paymentID int(11) NOT NULL AUTO_INCREMENT,
 instructorID int(11) DEFAULT NULL,
 classID int(11) DEFAULT NULL,
 paymentAmount decimal(10,2) DEFAULT NULL,
 paymentDate date DEFAULT NULL,
 PRIMARY KEY (paymentID),
 KEY instructorID (instructorID),
 KEY classID (classID),
 CONSTRAINT fk_instructorpayment_instructorID FOREIGN KEY
(instructorID) REFERENCES instructor (instructorID),
 CONSTRAINT fk_instructorpayment_classID FOREIGN KEY (classID)
REFERENCES class (classID)
);

CREATE TABLE customer (
 customerID int(11) NOT NULL,
 fname varchar(50) DEFAULT NULL,
 lname varchar(50) DEFAULT NULL,
 email varchar(100) DEFAULT NULL,

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phone varchar(20) DEFAULT NULL,
gender char(1) DEFAULT NULL,
dob date DEFAULT NULL,
joindate date DEFAULT NULL,
classbalance int(11) DEFAULT NULL,
PRIMARY KEY (customerID)
);

INSERT INTO customer (customerID, fname, lname, email, phone, gender,
dob, joindate, classbalance)
VALUES
(1, 'Braden', 'Bourgois', 'bboul22@lsu.edu', '5042302323', 'M', '2000-
12-25', '2022-01-02', 21),
(2, 'Hamzah', 'Alkhatib', 'halkh19@lsu.edu', '5042282860', 'M', '1999-
07-04', '2021-02-09', 20),
(3, 'Hanan', 'Afzal', 'hafzal2@lsu.edu', '2145361559', 'M', '1997-09-
06', '2023-06-20', 14),
(4, 'Mary', 'Broussard', 'mbroussard@marybird.com', '2254843715', 'F',
'1988-08-22', '2017-03-05', 14),
(5, 'Daniel', 'Neck', 'dneck@laughing.com', '2258971106', 'M', '1973-
04-19', '2016-10-18', 23),
(6, 'Olivia', 'Clark', 'olivia.clark@featherriver.com', '4087715539',
'F', '1969-11-13', '2014-05-04', 18),
(7, 'Steven', 'Wahlen', 'swahlen@genesiscare.com', '7148074210', 'M',
'1988-06-27', '2015-03-13', 15),
(8, 'Matthew', 'Bryant', 'mbryant@gmail.com', '2252038745', 'M', '1974-
06-07', '2017-05-02', 14),
(9, 'Alexis', 'Smith', 'alexis.smith@icloud.com', '2257096366', 'M',
'1989-04-18', '2020-11-24', 23),
(10, 'Courtney', 'Hill', 'chill77@imlost.edu', '2252151299', 'F',
'1998-12-13', '2020-04-28', 18),
(11, 'Jeremy', 'Bisek', 'jbisek1@lsu.edu', '7144253612', 'M', '1976-03-
14', '1976-03-14', 14),
(12, 'Mia', 'Thomas', 'mia.thomas@example.com', '4321098765', 'F',
'1986-06-22', '2020-11-14', 14),
(13, 'Elijah', 'Jackson', 'elijah.jackson@example.com', '3210987654',
'M', '1997-10-08', '2020-12-30', 23),
(14, 'Charlotte', 'White', 'charlotte.white@example.com', '2109876543',
'F', '1998-04-03', '2021-01-05', 18),
(15, 'Lucas', 'Harris', 'lucas.harris@example.com', '1098765432', 'M',
'1990-11-19', '2021-02-18', 14),
(16, 'Ava', 'Martinez', 'ava.martinez@example.com', '0987654321', 'F',
'1992-07-15', '2021-03-21', 14),
(17, 'Alexander', 'Garcia', 'alexander.garcia@example.com',
'9876543210', 'M', '1988-03-12', '2021-04-25', 23),
(18, 'Madison', 'Lopez', 'madison.lopez@example.com', '8765432109',
'F', '1991-11-30', '2021-05-30', 18),
(19, 'Jacob', 'King', 'jacob.king@example.com', '7654321098', 'M',
'1995-04-17', '2021-06-12', 14),
(20, 'Isabella', 'Perez', 'isabella.perez@example.com', '6543210987',
'F', '1989-08-10', '2021-07-18', 14),
(21, 'William', 'Rivera', 'william.rivera@example.com', '5432109876',
'M', '1996-02-18', '2021-08-22', 23),
(22, 'Sophia', 'Young', 'sophia.young@example.com', '4321098765', 'F',
'1986-06-22', '2021-09-05', 18),
(23, 'Ethan', 'Wright', 'ethan.wright@example.com', '3210987654', 'M',
'1997-10-08', '2021-10-10', 14),

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(24, 'Amelia', 'Scott', 'amelia.scott@example.com', '2109876543', 'F',
'1998-04-03', '2021-11-15', 14),
(25, 'Oliver', 'Green', 'oliver.green@example.com', '1098765432', 'M',
'1990-11-19', '2021-12-20', 27),
(26, 'Emily', 'Davis', 'emily.davis@example.com', '2345678901', 'F',
'1996-08-15', '2022-01-02', 13),
(27, 'Michael', 'Thompson', 'michael.thompson@example.com',
'3456789012', 'M', '1985-05-20', '2022-01-02', 13),
(28, 'Sophie', 'Wilson', 'sophie.wilson@example.com', '4567890123',
'F', '1993-02-25', '2022-01-03', 12),
(29, 'David', 'Garcia', 'david.garcia@example.com', '5678901234', 'M',
'1987-09-30', '2022-01-03', 12),
(30, 'Isaac', 'Martinez', 'isaac.martinez@example.com', '6789012345',
'M', '1994-06-05', '2022-01-04', 13),
(31, 'Chloe', 'Hernandez', 'chloe.hernandez@example.com', '7890123456',
'F', '1990-03-10', '2022-01-04', 12),
(32, 'James', 'Lopez', 'james.lopez@example.com', '8901234567', 'M',
'1986-10-15', '2022-01-05', 13),
(33, 'Lily', 'Gonzalez', 'lily.gonzalez@example.com', '9012345678',
'F', '1997-07-20', '2022-01-05', 12),
(34, 'Mason', 'Wilson', 'mason.wilson@example.com', '0123456789', 'M',
'1988-04-25', '2022-01-06', 13),
(35, 'Harper', 'Perez', 'harper.perez@example.com', '1234567890', 'F',
'1995-01-30', '2022-01-06', 13),
(36, 'Benjamin', 'Sanchez', 'benjamin.sanchez@example.com',
'2345678901', 'M', '1989-08-05', '2022-01-07', 13),
(37, 'Evelyn', 'Garcia', 'evelyn.garcia@example.com', '3456789012',
'F', '1992-05-10', '2022-01-07', 13),
(38, 'William', 'Smith', 'william.smith@example.com', '4567890123',
'M', '1984-02-15', '2022-01-08', 13),
(39, 'Avery', 'Johnson', 'avery.johnson@example.com', '5678901234',
'F', '1991-11-20', '2022-01-08', 13),
(40, 'Scarlett', 'Brown', 'scarlett.brown@example.com', '6789012345',
'F', '1987-06-25', '2022-01-09', 13),
(41, 'Logan', 'Lopez', 'logan.lopez@example.com', '7890123456', 'M',
'1993-03-30', '2022-01-09', 13),
(42, 'Ella', 'Martinez', 'ella.martinez@example.com', '8901234567',
'F', '1996-12-05', '2022-01-10', 13),
(43, 'Jackson', 'Gonzalez', 'jackson.gonzalez@example.com',
'9012345678', 'M', '1985-09-10', '2022-01-10', 13),
(44, 'Penelope', 'Rodriguez', 'penelope.rodriguez@example.com',
'0123456789', 'F', '1990-04-15', '2022-01-11', 14),
(45, 'Lucas', 'Hernandez', 'lucas.hernandez@example.com', '1234567890',
'M', '1988-01-20', '2022-01-11', 17),
(46, 'Emma', 'Garcia', 'emma.garcia@example.com', '2345678901', 'F',
'1994-10-25', '2022-01-12', 17),
(47, 'Alexander', 'Martinez', 'alexander.martinez@example.com',
'3456789012', 'M', '1987-07-30', '2022-01-12', 17),
(48, 'Grace', 'Lopez', 'grace.lopez@example.com', '4567890123', 'F',
'1991-04-05', '2022-01-13', 17),
(49, 'Daniel', 'Gonzalez', 'daniel.gonzalez@example.com', '5678901234',
'M', '1995-11-10', '2022-01-13', 17),
(201, 'Alice', 'Johnson', 'alice.johnson@example.com', '1234567890',
'F', '1995-03-10', '2022-01-01', 0),
(202, 'Bob', 'Smith', 'bob.smith@example.com', '9876543210', 'M',
'1990-07-15', '2022-01-01', 0);

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CREATE TABLE employee (
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    employeeID int(11) NOT NULL,
    empfname varchar(50) DEFAULT NULL,
    emplname varchar(50) DEFAULT NULL,
    role varchar(50) DEFAULT NULL,
    phone varchar(20) DEFAULT NULL,
    PRIMARY KEY (employeeID)
);

INSERT INTO employee (employeeID, empfname, emplname, role, phone)
VALUES
(1, 'Alice', 'Johnson', 'Manager', '123-456-7890'),
(2, 'Bob', 'Smith', 'Manager', '234-567-8901'),
(3, 'Charlie', 'Brown', 'Cleaner', '345-678-9012'),
(4, 'David', 'Wilson', 'Cleaner', '456-789-0123'),
(5, 'Eve', 'Davis', 'Cleaner', '567-890-1234'),
(6, 'Frank', 'Miller', 'Desk Worker', '678-901-2345'),
(7, 'Grace', 'Garcia', 'Desk Worker', '789-012-3456'),
(8, 'Hank', 'Martinez', 'Desk Worker', '890-123-4567'),
(9, 'Ivy', 'Lopez', 'Desk Worker', '901-234-5678');

CREATE TABLE instructor (
    instructorID int(11) NOT NULL,
    instfname varchar(50) DEFAULT NULL,
    instlname varchar(50) DEFAULT NULL,
    instphone varchar(20) DEFAULT NULL,
    instdob date DEFAULT NULL,
    inststartdate date DEFAULT NULL,
    instgender char(1) DEFAULT NULL,
    PRIMARY KEY (instructorID)
);

INSERT INTO instructor (instructorID, instfname, instlname, instphone,
instdob, inststartdate, instgender)
VALUES
(13, 'Lee', 'Smith', '2252151299', '1987-10-12', '2019-08-28', 'M'),
(29, 'MG', 'Miller', '2256527598', '1994-03-29', '2020-02-18', 'F'),
(30, 'Brooke', 'Miller', '2252488107', '2000-07-25', '2023-05-20',
'F'),
(42, 'Melanie', 'Verzwyvelt', '2254253612', '1994-05-24', '2020-04-22',
'F'),
(49, 'Lauryn', 'Burleigh', '2252483246', '1981-01-30', '2014-08-02',
'F'),
(55, 'Shea', 'Caliva', '2253165777', '1988-02-26', '2020-10-01', 'F'),
(57, 'Dana', 'Guillory', '2254412923', '1991-06-19', '2018-09-21',
'F'),
(61, 'Evan', 'Kemp', '2254442366', '1992-11-08', '2018-10-26', 'M'),
(68, 'Ashley', 'Temple', '2256521157', '1994-07-02', '2021-06-15',
'F'),
(84, 'Heather', 'Kemp', '2256789217', '1985-12-07', '2016-03-06', 'F'),
(88, 'Jamie', 'Skiles', '2253161354', '1999-10-04', '2022-06-10', 'F'),
(91, 'Erin', 'Kimbrough', '2254291058', '1996-02-14', '2021-01-13',
'F');

CREATE TABLE sale (
    saleID int(11) NOT NULL AUTO_INCREMENT,
    customerID int(11) DEFAULT NULL,
    classpackageID int(11) DEFAULT NULL,
    saleDate date DEFAULT NULL,

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    paymentType varchar(50) DEFAULT NULL,
    PRIMARY KEY (saleID),
    CONSTRAINT fk_sale_customerID FOREIGN KEY (customerID) REFERENCES
customer (customerID),
    CONSTRAINT fk_sale_classpackageID FOREIGN KEY (classpackageID)
REFERENCES classpackage (classpackageID)
);

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```

CREATE TABLE classpackage (
    classpackageID int(11) NOT NULL,
    classpackagedesc varchar(255) DEFAULT NULL,
    classpackageprice decimal(10,2) DEFAULT NULL,
    numClasses int(11) DEFAULT NULL,
    PRIMARY KEY (classpackageID)
);

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INSERT INTO classpackage (classpackageID, classpackagedesc,
classpackageprice, numClasses)
VALUES
('1', 'Single Class', '18.00', '1'),
('2', '5 Class Pass', '80.00', '5'),
('3', '10 Class Pass', '140.00', '10'),
('4', 'Drop in Class', '20.00', '1');

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CREATE TABLE payment (
    paymentID int(11) NOT NULL AUTO_INCREMENT,
    employeeID int(11) DEFAULT NULL,
    paymentAmount decimal(10,2) DEFAULT NULL,
    paymentDate date DEFAULT NULL,
    PRIMARY KEY (paymentID),
    KEY employeeID (employeeID),
    CONSTRAINT fk_payment_employee FOREIGN KEY (employeeID) REFERENCES
employee (employeeID)
);

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CREATE TABLE register (
    registerID int(11) NOT NULL AUTO_INCREMENT,
    customerID int(11) DEFAULT NULL,
    classID int(11) DEFAULT NULL,
    registerDate date DEFAULT NULL,
    PRIMARY KEY (registerID),
    KEY customerID (customerID),
    KEY classID (classID),
    CONSTRAINT fk_register_customerID FOREIGN KEY (customerID) REFERENCES
customer (customerID),
    CONSTRAINT fk_register_classID FOREIGN KEY (classID) REFERENCES class
(classID)
);

```

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CREATE TABLE work_schedule (
    scheduleID int(11) NOT NULL,
    employeeID int(11) DEFAULT NULL,
    workDate date DEFAULT NULL,
    startTime time DEFAULT NULL,
    endTime time DEFAULT NULL,
    PRIMARY KEY (scheduleID),
    KEY employeeID (employeeID),

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    CONSTRAINT fk_work_schedule_employeeID FOREIGN KEY (employeeID)
REFERENCES employee (employeeID)
);

-- Triggers
#1 Pays the instructor once a class is created.
DELIMITER //

CREATE TRIGGER PayInstructorAfterClassCreation
AFTER INSERT ON class
FOR EACH ROW
BEGIN
    DECLARE payment DECIMAL(10, 2);
    SET payment = 50.00; -- Fixed payment amount per class, modify as
needed

    INSERT INTO instructorpayment (instructorID, classID,
paymentAmount, paymentDate)
VALUES (NEW.instructorID, NEW.classID, payment, NEW.classDate);
END //

DELIMITER ;

INSERT INTO CLASS (classID, classname, classtemp, startTime, endTime,
classDate, spotsAvailable, instructorID) VALUES
(1, 'Yoga Basics', 70.00, '08:00:00', '09:00:00', '2024-06-25', 19,
84),
(2, 'Mindful Flow', 80.00, '10:00:00', '11:00:00', '2024-06-25', 20,
84),
(3, 'Yin & Yoga Nidra', 75.00, '12:00:00', '13:00:00', '2024-06-25',
20, 61),
(4, 'Restorative & Yoga Nidra', 75.00, '14:00:00', '15:00:00', '2024-
06-25', 20, 49),
(5, 'Yin yoga Beats', 70.00, '16:00:00', '17:00:00', '2024-06-25', 20,
57),
(6, 'Basic Beginners', 75.00, '08:00:00', '09:00:00', '2024-06-26', 20,
30),
(7, 'Kids Yoga', 70.00, '10:00:00', '11:00:00', '2024-06-26', 19, 13),
(8, 'Yoga Sculpt', 85.00, '12:00:00', '13:00:00', '2024-06-26', 19,
61),
(9, 'Hot 26&2', 105.00, '14:00:00', '15:00:00', '2024-06-26', 19, 84),
(10, 'Basic Beginners', 75.00, '16:00:00', '17:00:00', '2024-06-26',
19, 29),
(11, 'Hot Power', 95.00, '08:00:00', '09:00:00', '2024-06-25', 19, 91),
(12, 'Yin yoga Beats', 70.00, '10:00:00', '11:00:00', '2024-06-27', 19,
30),
(13, 'Yoga Sculpt', 85.00, '12:00:00', '13:00:00', '2024-06-27', 19,
57),
(14, 'Mindful Flow', 80.00, '14:00:00', '15:00:00', '2024-06-27', 19,
68),
(15, 'Hot Power', 95.00, '16:00:00', '17:00:00', '2024-06-27', 19, 88),
(16, 'Basic Beginners', 75.00, '08:00:00', '09:00:00', '2024-06-28',
19, 84),
(17, 'Yin & Yoga Nidra', 75.00, '10:00:00', '11:00:00', '2024-06-28',
19, 91),
(18, 'Yoga Sculpt', 85.00, '12:00:00', '13:00:00', '2024-06-28', 19,
68),

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(19, 'Mindful Flow', 80.00, '14:00:00', '15:00:00', '2024-06-28', 19, 13),
(20, 'Hot 26&2', 105.00, '16:00:00', '17:00:00', '2024-06-28', 18, 84),
(21, 'Yoga Sculpt', 85.00, '08:00:00', '09:00:00', '2024-06-29', 19, 42),
(22, 'Hot Power', 95.00, '10:00:00', '11:00:00', '2024-06-29', 19, 68),
(23, 'Restorative & Yoga Nidra', 75.00, '12:00:00', '13:00:00', '2024-06-29', 19, 57),
(24, 'Hot Power', 95.00, '14:00:00', '15:00:00', '2024-06-29', 18, 13),
(26, 'Hot Power', 90.00, '08:00:00', '09:00:00', '2024-05-25', 19, 13),
(27, 'Vinyasa Beats', 75.00, '10:00:00', '11:00:00', '2024-05-25', 19, 55),
(28, 'Express', 80.00, '12:00:00', '13:00:00', '2024-05-25', 19, 68),
(29, 'Grace Church', 70.00, '14:00:00', '15:00:00', '2024-05-25', 19, 30),
(30, 'Morning Flow', 80.00, '16:00:00', '17:00:00', '2024-05-25', 19, 91),
(31, 'Hot Power', 90.00, '08:00:00', '09:00:00', '2024-05-26', 19, 30),
(32, 'Express', 80.00, '10:00:00', '11:00:00', '2024-05-26', 19, 84),
(33, 'Vinyasa Beats', 75.00, '12:00:00', '13:00:00', '2024-05-26', 19, 49),
(34, 'Grace Church', 70.00, '14:00:00', '15:00:00', '2024-05-26', 19, 29),
(35, 'Morning Flow', 80.00, '16:00:00', '17:00:00', '2024-05-26', 19, 55),
(36, 'Hot Power', 90.00, '08:00:00', '09:00:00', '2024-05-27', 19, 13),
(37, 'Vinyasa Beats', 75.00, '10:00:00', '11:00:00', '2024-05-27', 19, 57),
(38, 'Express', 80.00, '12:00:00', '13:00:00', '2024-05-27', 19, 42),
(39, 'Grace Church', 70.00, '14:00:00', '15:00:00', '2024-05-27', 19, 91),
(40, 'Morning Flow', 80.00, '16:00:00', '17:00:00', '2024-05-27', 19, 30),
(41, 'Hot Power', 90.00, '08:00:00', '09:00:00', '2024-05-28', 19, 88),
(42, 'Express', 80.00, '10:00:00', '11:00:00', '2024-05-28', 19, 68),
(43, 'Vinyasa Beats', 75.00, '12:00:00', '13:00:00', '2024-05-28', 19, 49),
(44, 'Grace Church', 70.00, '14:00:00', '15:00:00', '2024-05-28', 19, 84),
(45, 'Morning Flow', 80.00, '16:00:00', '17:00:00', '2024-05-28', 19, 30),
(46, 'Hot Power', 90.00, '08:00:00', '09:00:00', '2024-05-29', 19, 13),
(47, 'Vinyasa Beats', 75.00, '10:00:00', '11:00:00', '2024-05-29', 19, 55),
(48, 'Express', 80.00, '12:00:00', '13:00:00', '2024-05-29', 19, 42),
(49, 'Grace Church', 70.00, '14:00:00', '15:00:00', '2024-05-29', 19, 91),
(50, 'Morning Flow', 80.00, '16:00:00', '17:00:00', '2024-05-29', 19, 29),
(51, 'Hot Power', 90.00, '08:00:00', '09:00:00', '2024-05-30', 19, 57),
(52, 'Vinyasa Beats', 75.00, '10:00:00', '11:00:00', '2024-05-30', 19, 84),
(53, 'Express', 80.00, '12:00:00', '13:00:00', '2024-05-30', 19, 30),
(54, 'Grace Church', 70.00, '14:00:00', '15:00:00', '2024-05-30', 19, 49),
(55, 'Morning Flow', 80.00, '16:00:00', '17:00:00', '2024-05-30', 19, 68),
(56, 'Hot Power', 90.00, '08:00:00', '09:00:00', '2024-05-31', 19, 29),

(57, 'Express', 80.00, '10:00:00', '11:00:00', '2024-05-31', 19, 55),
(58, 'Vinyasa Beats', 75.00, '12:00:00', '13:00:00', '2024-05-31', 19, 42),
(59, 'Grace Church', 70.00, '14:00:00', '15:00:00', '2024-05-31', 19, 91),
(60, 'Morning Flow', 80.00, '16:00:00', '17:00:00', '2024-05-31', 19, 13),
(61, 'Hot Power', 90.00, '08:00:00', '09:00:00', '2024-06-01', 19, 84),
(62, 'Vinyasa Beats', 75.00, '10:00:00', '11:00:00', '2024-06-01', 19, 30),
(63, 'Express', 80.00, '12:00:00', '13:00:00', '2024-06-01', 19, 49),
(64, 'Grace Church', 70.00, '14:00:00', '15:00:00', '2024-06-01', 19, 68),
(65, 'Morning Flow', 80.00, '16:00:00', '17:00:00', '2024-06-01', 19, 91),
(66, 'Hot Power', 90.00, '08:00:00', '09:00:00', '2024-06-02', 19, 29),
(67, 'Express', 80.00, '10:00:00', '11:00:00', '2024-06-02', 19, 55),
(68, 'Vinyasa Beats', 75.00, '12:00:00', '13:00:00', '2024-06-02', 19, 42),
(69, 'Grace Church', 70.00, '14:00:00', '15:00:00', '2024-06-02', 19, 91),
(70, 'Morning Flow', 80.00, '16:00:00', '17:00:00', '2024-06-02', 19, 13),
(71, 'Hot Power', 90.00, '08:00:00', '09:00:00', '2024-06-03', 19, 84),
(72, 'Vinyasa Beats', 75.00, '10:00:00', '11:00:00', '2024-06-03', 18, 30),
(73, 'Express', 80.00, '12:00:00', '13:00:00', '2024-06-03', 19, 49),
(74, 'Grace Church', 70.00, '14:00:00', '15:00:00', '2024-06-03', 19, 68),
(75, 'Morning Flow', 80.00, '16:00:00', '17:00:00', '2024-06-03', 19, 91),
(76, 'Hot Power', 90.00, '08:00:00', '09:00:00', '2024-06-04', 19, 29),
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(88, 'Vinyasa Beats', 75.00, '12:00:00', '13:00:00', '2024-06-06', 19, 68),
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(165, 'Morning Flow', 80.00, '16:00:00', '17:00:00', '2024-06-21', 19,
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(173, 'Express', 80.00, '12:00:00', '13:00:00', '2024-06-23', 19, 49),
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(175, 'Morning Flow', 80.00, '16:00:00', '17:00:00', '2024-06-23', 19,
29);

```

#2 When a sale occurs, the classes they bought are added to their classbalance.

DELIMITER //

```

CREATE TRIGGER UpdateClassBalanceAfterSale
AFTER INSERT ON sale
FOR EACH ROW
BEGIN
    DECLARE num_classes INT;

    -- Fetch the number of classes from the class package being sold
    SELECT numClasses INTO num_classes
    FROM classpackage
    WHERE classpackageID = NEW.classpackageID;

    -- Update the customer's class balance
    UPDATE customer
    SET classbalance = classbalance + num_classes
    WHERE customerID = NEW.customerID;
END //

```

DELIMITER ;

```

INSERT INTO sale (saleID, customerID, classpackageID, saleDate,
paymentType) VALUES
(1401, 1, 1, '2023-10-24', 'Credit Card'),
(1402, 1, 2, '2024-03-03', 'Credit Card'),
(1403, 1, 3, '2024-04-21', 'Credit Card'),
(1404, 1, 4, '2023-07-01', 'Credit Card'),
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(1406, 2, 2, '2024-01-16', 'Cash'),
(1407, 2, 3, '2024-01-26', 'Credit Card'),
(1408, 2, 4, '2024-01-25', 'Credit Card'),
(1409, 3, 1, '2024-01-25', 'Cash'),
(1410, 3, 2, '2024-04-21', 'Credit Card'),
(1411, 3, 3, '2024-04-14', 'Credit Card'),
(1412, 3, 4, '2024-03-08', 'Credit Card'),
(1413, 4, 1, '2023-11-01', 'Credit Card'),
(1414, 4, 2, '2024-05-25', 'Cash'),
(1415, 4, 3, '2024-02-01', 'Credit Card'),
(1416, 4, 4, '2023-09-18', 'Credit Card'),
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(1418, 5, 2, '2023-11-18', 'Credit Card'),
(1419, 5, 3, '2024-05-06', 'Cash'),
(1420, 5, 4, '2023-07-28', 'Cash'),
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(1422, 6, 2, '2023-07-15', 'Credit Card'),
(1423, 6, 3, '2024-01-11', 'Cash'),
(1424, 6, 4, '2023-08-07', 'Credit Card'),
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(1426, 7, 2, '2023-10-21', 'Cash'),
(1427, 7, 3, '2023-12-31', 'Credit Card'),
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(1430, 8, 2, '2023-11-10', 'Cash'),
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(1436, 9, 4, '2024-01-09', 'Cash'),
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(1438, 10, 2, '2023-07-25', 'Cash'),
(1439, 10, 3, '2023-07-20', 'Cash'),
(1440, 10, 4, '2024-04-09', 'Cash'),
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(1442, 11, 2, '2024-05-21', 'Cash'),
(1443, 11, 3, '2024-05-02', 'Credit Card'),
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(1445, 12, 1, '2024-06-03', 'Credit Card'),
(1446, 12, 2, '2024-03-08', 'Cash'),
(1447, 12, 3, '2023-12-14', 'Cash'),
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(1451, 13, 3, '2023-10-28', 'Cash'),
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(1453, 14, 1, '2023-08-29', 'Credit Card'),
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(1455, 14, 3, '2024-05-03', 'Cash'),
(1456, 14, 4, '2023-08-25', 'Credit Card'),

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(1494, 24, 2, '2024-04-14', 'Cash'),
(1495, 24, 3, '2023-10-25', 'Credit Card'),
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(1577, 45, 1, '2023-11-10', 'Credit Card'),
(1578, 45, 2, '2024-05-19', 'Credit Card'),
(1579, 45, 3, '2024-01-13', 'Credit Card'),
(1580, 45, 4, '2024-01-23', 'Credit Card'),
(1581, 46, 1, '2023-09-27', 'Credit Card'),
(1582, 46, 2, '2024-01-17', 'Credit Card'),
(1583, 46, 3, '2024-05-25', 'Credit Card'),
(1584, 46, 4, '2024-03-08', 'Cash'),
(1585, 47, 1, '2023-09-23', 'Cash'),
(1586, 47, 2, '2023-11-19', 'Cash'),
(1587, 47, 3, '2023-09-30', 'Credit Card'),
(1588, 47, 4, '2023-07-23', 'Credit Card'),
(1589, 48, 1, '2024-03-02', 'Cash'),
(1590, 48, 2, '2024-01-15', 'Credit Card'),
(1591, 48, 3, '2024-04-20', 'Credit Card'),
(1592, 48, 4, '2023-11-16', 'Cash'),
(1593, 49, 1, '2024-06-21', 'Credit Card'),
(1594, 49, 2, '2023-10-06', 'Credit Card'),
(1595, 49, 3, '2024-01-04', 'Credit Card'),
(1596, 49, 4, '2023-09-30', 'Cash'),
(1597, 7, 3, '2024-05-09', 'Credit Card'),
(1598, 11, 3, '2023-06-06', 'Credit Card'),
(1599, 17, 3, '2023-11-08', 'Credit Card'),
(1600, 21, 3, '2023-02-07', 'Cash'),
(1601, 25, 3, '2023-03-14', 'Cash'),
(1602, 49, 3, '2023-08-22', 'Credit Card'),
(1603, 1, 3, '2023-8-22', 'Cash'),
(1604, 4, 3, '2024-04-21', 'Credit Card'),
(1605, 4, 3, '2024-05-21', 'Credit Card'),
(1606, 6, 3, '2024-04-22', 'Credit Card'),
(1607, 6, 3, '2024-04-29', 'Credit Card');

```

#3 When a customer registers for a class their class balance lowers by one and the class loses an available spot.
DELIMITER //

```

CREATE TRIGGER UpdateClassBalanceAndSpotsAfterRegister
AFTER INSERT ON register
FOR EACH ROW
BEGIN
    DECLARE spots INT;

    -- Decrease classbalance for the customer
    UPDATE customer
    SET classbalance = classbalance - 1
    WHERE customerID = NEW.customerID;

    -- Decrease spotsAvailable for the class
    SELECT spotsAvailable INTO spots FROM class WHERE classID =
NEW.classID;

    IF spots > 0 THEN
        UPDATE class
        SET spotsAvailable = spots - 1

```

```

        WHERE classID = NEW.classID;
    ELSE
        -- Handle no spots available error
        SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT = 'No spots available
for registration';
    END IF;
END //

```

```

#4 Pays employees based off their work schedule.
DELIMITER //

```

```

CREATE TRIGGER CalculatePayment
AFTER INSERT ON work_schedule
FOR EACH ROW
BEGIN
    DECLARE hoursWorked DECIMAL(5, 2);
    DECLARE hourlyRate DECIMAL(10, 2); -- Adjust based on actual
payment policies
    DECLARE workDate DATE;

    -- Calculate hours worked (assuming hourly rate is $15.00)
    SET hoursWorked = TIMESTAMPTDIFF(HOUR, NEW.startTime, NEW.endTime);
    SET hourlyRate = 15.00; -- Adjust hourly rate as needed
    SET workDate = NEW.workDate; -- Get the workDate from the NEW row
in WORK_SCHEDULE

    -- Calculate payment amount
    INSERT INTO PAYMENT (employeeID, paymentAmount, paymentDate)
    VALUES (NEW.employeeID, hoursWorked * hourlyRate, workDate);
END //

DELIMITER ;

```

```

INSERT INTO WORK_SCHEDULE (scheduleID, employeeID, workDate, startTime,
endTime)
VALUES
(1, 1, '2024-02-25', '06:00:00', '12:00:00'),
(2, 6, '2024-02-25', '06:00:00', '12:00:00'),
(3, 3, '2024-02-25', '17:00:00', '20:00:00'),
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(7, 1, '2024-02-27', '06:00:00', '12:00:00'),
(8, 8, '2024-02-27', '06:00:00', '12:00:00'),
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```
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```

```
#VIEWS
```

```
#1 This view helps tracking what class a customer has registered and
the popularity of classes.
```

```
CREATE VIEW CustomerClassRegistrations AS
SELECT
```

```
    c.customerID,
    c.fname AS firstName,
    c.lname AS lastName,
    c.email,
    cls.classID,
    cls.classname,
    cls.classDate,
    cls.startTime,
    cls.endTime,
    i. instfname AS instructorFirstName,
    i. instlname AS instructorLastName
```

```
FROM
```

```
    REGISTER r
    JOIN CUSTOMER c ON r.customerID = c.customerID
    JOIN CLASS cls ON r.classID = cls.classID
    JOIN INSTRUCTOR i ON cls.instructorID = i.instructorID;
```

```
#2 This view gives the schedule and previous classes taught for an
instructor and would work even better if we put future classes in
advance.
```

```
CREATE VIEW InstructorClassSchedule AS
```

```
SELECT
```

```
    i. instructorID,
    i. instfname AS firstName,
    i. instlname AS lastName,
    cls.classID,
    cls.classname,
    cls.classDate,
    cls.startTime,
    cls.endTime,
    cls.spotsAvailable
```

```
FROM
```

```
    INSTRUCTOR i
    JOIN CLASS cls ON i.instructorID = cls.instructorID
```

```
ORDER BY
```

```
    i. instructorID,
    cls.classDate,
    cls.startTime;
```

```
#QUERY MATRIX QUESTIONS
```

```
--
```

```
--
```

```
#1. List the female customers born before 1990 who bought either a 5-
class or 10-class package? List these female customers by DOB;
```

```
SELECT DISTINCT c.customerID, c.fname, c.lname, c.dob
FROM customer c, sale s, classpackage cp
WHERE c.customerID = s.customerID
```

```
AND s.classpackageID = cp.classpackageID
AND c.gender = 'F'
AND c.dob < '1990-01-01'
AND cp.numClasses IN (5, 10)
ORDER BY c.dob;
```

```
#2. Which employee roles have more than 2 employees?;
SELECT e.role, COUNT(*) AS count_of_employee_roles
FROM employee e
GROUP BY role
HAVING COUNT(*) > 2;
```

```
#3. List the male customers under the age of 30 years old who purchased
a 10-class package and also have a class balance greater than 30;
SELECT c.customerID, c.fname, c.lname, c.dob, c.classbalance
FROM customer c
WHERE c.gender = 'M'
AND TIMESTAMPDIFF(YEAR, c.dob, CURDATE()) < 30
AND c.customerID IN
  (SELECT s.customerID
   FROM sale s, classpackage cp
   WHERE s.classpackageID = cp.classpackageID
   AND cp.numClasses = 10)
AND c.classbalance > 30;
```

```
#4. How many distinct male customers purchased at least two 10-class
packages?
SELECT c.customerID, c.fname, c.lname
FROM CUSTOMER c
JOIN (
  SELECT s.customerID
  FROM SALE s
  JOIN CLASSPACKAGE cp ON s.classpackageID = cp.classpackageID
  WHERE cp.classpackageid = 3
  GROUP BY s.customerID
  HAVING COUNT(s.saleID) >= 2
) AS subquery ON c.customerID = subquery.customerID
WHERE c.gender = 'M';
```

```
#5. How many distinct sales were paid for by cash in the year 2023?;
SELECT COUNT(DISTINCT saleID) AS num_cash_sales_2023
FROM sale
WHERE paymentType = 'cash'
AND YEAR(saleDate) = 2023;
```

```
#6. List the customers (first and last names) and the numbers of years
they have been a customer at the studio;
SELECT c.fname, c.lname,
       TIMESTAMPDIFF(YEAR, c.joindate, CURDATE()) AS
years_since_joining_studio
FROM customer c;
```

```
#7. Provide the instructor class schedule for ALL of the instructors
using a VIEW. Include all attributes of CLASS (except class temp) as
well as instructor first and last name;
SELECT *
FROM instructorclassschedule;
```

#8. Provide the total number of classes instructed by all instructors.
Group by gender;
SELECT i.instgender AS gender, COUNT(c.classID) AS total_classes_taught
FROM INSTRUCTOR i
LEFT JOIN CLASS c ON i.instructorID = c.instructorID
GROUP BY i.instgender
ORDER BY gender;

#9. List all males who have registered for more than one class with a female instructor;
SELECT DISTINCT c.customerID, c.fname, c.lname
FROM customer c, register r, class cl, instructor i
WHERE c.customerID = r.customerID
AND r.classID = cl.classID
AND cl.instructorID = i.instructorID
AND c.gender = 'M' AND i.instgender = 'F'
GROUP BY c.customerID
HAVING COUNT(DISTINCT cl.classID) > 1;

#10 List all classes in sequential order based on their classID,
showing the class ID, name, instructor ID, and class date.
SELECT c.classID, c.classname, c.instructorID, c.classdate
FROM CLASS c
JOIN CLASS pc ON c.classID = pc.classID + 1
ORDER BY c.classID;