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DROP SCHEMA IF EXISTS `mydb` ;

CREATE SCHEMA IF NOT EXISTS `mydb`;
USE `mydb` ;
-- Table `mydb`.`Parent`

DROP TABLE IF EXISTS `mydb`.`Parent` ;

CREATE TABLE IF NOT EXISTS `mydb`.`Parent` (
  `Parent_ID` INT(9) NOT NULL,
  `F_name` VARCHAR(45) NOT NULL,
  `L_name` VARCHAR(45) NOT NULL,
  `Mail` VARCHAR(45) NOT NULL,
  `Phonenumber` CHAR(10) NOT NULL,
  `Address` VARCHAR(45) NOT NULL,
  Constraint Parent_PK PRIMARY KEY(Parent_ID));

-- Table `mydb`.`Medical_Record`

DROP TABLE IF EXISTS `mydb`.`Medical_Record` ;

CREATE TABLE IF NOT EXISTS `mydb`.`Medical_Record` (
  `Medical_Record_ID` INT(9) NOT NULL,
  `Description` VARCHAR(45) NOT NULL,
  `Date` DATE NOT NULL,
  `Doctor_Name` VARCHAR(45) NOT NULL,
  Constraint Medical_Record_PK PRIMARY KEY(Medical_Record_ID));

-- Table `mydb`.`Player`

DROP TABLE IF EXISTS `mydb`.`Player` ;

CREATE TABLE IF NOT EXISTS `mydb`.`Player` (
  `Player_ID` INT(9) NOT NULL,
  `First_Name` VARCHAR(45) NOT NULL,
  `Last_Name` VARCHAR(45) NOT NULL,
  `DOB` DATE NOT NULL,
  `Gender` CHAR(1) NOT NULL,
  `Contact` CHAR(10) NOT NULL,
  `Address` VARCHAR(45) NOT NULL,
  `Mail` VARCHAR(45) NOT NULL,
  `Parent_ID` INT(9) NULL,
  `Medical_Record_ID` INT(9) NOT NULL,
  `Age` INT(2) NOT NULL,
  Constraint Player_PK PRIMARY KEY(Player_ID),
  CONSTRAINT Player_FK1 FOREIGN KEY (`Parent_ID`) REFERENCES
`mydb`.`Parent` (`Parent_ID`),
  CONSTRAINT Player_FK2 FOREIGN KEY (`Medical_Record_ID`) REFERENCES
`mydb`.`Medical_Record` (`Medical_Record_ID`));

-- Table `mydb`.`Coach`

DROP TABLE IF EXISTS `mydb`.`Coach` ;

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CREATE TABLE IF NOT EXISTS `mydb`.`Coach` (
  `Coach_ID` INT(9) NOT NULL,
  `F_name` VARCHAR(45) NOT NULL,
  `L_name` VARCHAR(45) NOT NULL,
  `Role` VARCHAR(45) NOT NULL,
  `Phone` CHAR(10) NOT NULL,
  `mail` VARCHAR(45) NOT NULL,
  `Qualifications` VARCHAR(45) NOT NULL,
  `Gender` CHAR(1) NOT NULL,
  `Game_Type` CHAR(45) NOT NULL,
  Constraint Coach_PK PRIMARY KEY(Coach_ID));

-- Table `mydb`.`Team`

DROP TABLE IF EXISTS `mydb`.`Team` ;

CREATE TABLE IF NOT EXISTS `mydb`.`Team` (
  `Team_ID` INT(9) NOT NULL,
  `Team_Name` CHAR(30) NOT NULL,
  `Game_type` CHAR(45) NOT NULL,
  `Age_Group` VARCHAR(5) NOT NULL,
  `Coach_ID` INT(9) NOT NULL,
  `MatchesWon` INT(3) NOT NULL,
  `MatchesLost` INT(3) NOT NULL,
  `TotalMatchesPlayed` INT(3) NOT NULL,
  Constraint Team_PK PRIMARY KEY(Team_ID),
  CONSTRAINT Team_FK FOREIGN KEY (`Coach_ID`) REFERENCES `mydb`.`Coach`
  (`Coach_ID`));

-- Table `mydb`.`Location`

DROP TABLE IF EXISTS `mydb`.`Location` ;

CREATE TABLE IF NOT EXISTS `mydb`.`Location` (
  `Location_ID` INT(9) NOT NULL ,
  `Location_Name` VARCHAR(45) NOT NULL,
  `Location_Address` VARCHAR(45) NOT NULL,
  `Type` VARCHAR(45) NOT NULL,
  Constraint Location_PK PRIMARY KEY(Location_ID));

-- Table `mydb`.`Game`

DROP TABLE IF EXISTS `mydb`.`Game` ;

CREATE TABLE IF NOT EXISTS `mydb`.`Game` (
  `Game_ID` INT(9) NOT NULL,
  `Date` DATETIME NOT NULL,
  `Location_ID` INT(9) NOT NULL,
  `Score_teama` INT(2) NOT NULL,
  `Score_teamb` INT(2) NOT NULL,
  Constraint Game_PK PRIMARY KEY(Game_ID),
  CONSTRAINT Game_ID_FK FOREIGN KEY (`Location_ID`) REFERENCES
  `mydb`.`Location` (`Location_ID`));

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-- Table `mydb`.`Equipment`

DROP TABLE IF EXISTS `mydb`.`Equipment` ;

CREATE TABLE IF NOT EXISTS `mydb`.`Equipment` (
  `Equipment_ID` INT(9) NOT NULL,
  `Equipment_name` CHAR(40) NOT NULL,
  `Status` CHAR(15) NOT NULL,
  `Team_ID` INT(9) NULL,
  `Quantity` INT(3) NOT NULL,
  CONSTRAINT Equipment_PK PRIMARY KEY(Equipment_ID),
  CONSTRAINT Equipment_FK FOREIGN KEY (`Team_ID`) REFERENCES `mydb`.`Team`
(`Team_ID`));

-- Table `mydb`.`Registration`

DROP TABLE IF EXISTS `mydb`.`Registration` ;

CREATE TABLE IF NOT EXISTS `mydb`.`Registration` (
  `Registration_ID` INT(9) NOT NULL,
  `Player_ID` INT(9) NOT NULL,
  `Team_ID` INT(9) NOT NULL,
  `Season` VARCHAR(45) NOT NULL,
  `Payment_Status` VARCHAR(45) NOT NULL,
  `Fee` DECIMAL(13,2) NOT NULL,
  `Date` DATE NOT NULL,
  CONSTRAINT Registration_PK PRIMARY KEY(Registration_ID),
  CONSTRAINT Registration_FK1 FOREIGN KEY (`Player_ID`) REFERENCES
`mydb`.`Player` (`Player_ID`) ,
  CONSTRAINT Registration_FK2 FOREIGN KEY (`Team_ID`) REFERENCES
`mydb`.`Team` (`Team_ID`));

-- Table `mydb`.`Practice_Session`

DROP TABLE IF EXISTS `mydb`.`Practice_Session` ;

CREATE TABLE IF NOT EXISTS `mydb`.`Practice_Session` (
  `Practice_Session_ID` INT(9) NOT NULL,
  `Team_ID` INT(9) NOT NULL,
  `Location_ID` INT(9) NOT NULL,
  `Date` DATETIME NOT NULL,
  CONSTRAINT Practice_Session_PK PRIMARY KEY(Practice_Session_ID),
  CONSTRAINT Practice_Session_FK1 FOREIGN KEY (`Team_ID`) REFERENCES
`mydb`.`Team` (`Team_ID`),
  CONSTRAINT Practice_Session_FK2 FOREIGN KEY (`Location_ID`) REFERENCES
`mydb`.`Location` (`Location_ID`));

-- Table `mydb`.`Payment`

DROP TABLE IF EXISTS `mydb`.`Payment` ;

CREATE TABLE IF NOT EXISTS `mydb`.`Payment` (
  `Payment_ID` INT(9) NOT NULL,
  `Amount_Paid` DECIMAL(13,2) NOT NULL,

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    `Remaining_Amount` DECIMAL(13,2) NOT NULL,
    `Typeofpayment` CHAR(20) NOT NULL,
    `Registration_ID` INT(9) NOT NULL,
    CONSTRAINT Payment_PK PRIMARY KEY(Payment_ID),
    CONSTRAINT Payment_FK1 FOREIGN KEY (`Registration_ID`) REFERENCES
`mydb`.`Registration` (`Registration_ID`));

-- Table `mydb`.`Game_has_Team`

DROP TABLE IF EXISTS `mydb`.`Game_has_Team` ;

CREATE TABLE IF NOT EXISTS `mydb`.`Game_has_Team` (
    `Game_Game_ID` INT(9) NOT NULL,
    `Team_Team_ID` INT(9) NOT NULL,
    `Gamescheduleforateam` VARCHAR(45) NOT NULL,
    `Game_has_TeamID` INT(9) NOT NULL,
    CONSTRAINT Game_has_Team_PK PRIMARY KEY(Game_has_TeamID),
    CONSTRAINT Game_has_Team_FK1 FOREIGN KEY (`Game_Game_ID`) REFERENCES
`mydb`.`Game` (`Game_ID`),
    CONSTRAINT Game_has_Team_FK2 FOREIGN KEY (`Team_Team_ID`) REFERENCES
`mydb`.`Team` (`Team_ID`));

INSERT INTO `mydb`.`Parent` (`Parent_ID`, `F_name`, `L_name`, `Mail`,
`Phonenumber`, `Address`)
VALUES
(1, 'John', 'Smith', 'john.smith@example.com', '1234567890', '101 Main
St'),
(2, 'Mary', 'Johnson', 'mary.j@example.com', '1234567891', '102 Main St'),
(3, 'Michael', 'Williams', 'michael.w@example.com', '1234567892', '103
Main St'),
(4, 'Sarah', 'Brown', 'sarah.b@example.com', '1234567893', '104 Main St'),
(5, 'James', 'Jones', 'james.j@example.com', '1234567894', '105 Main St'),
(6, 'Patricia', 'Miller', 'patricia.m@example.com', '1234567895', '106
Main St'),
(7, 'Robert', 'Davis', 'robert.d@example.com', '1234567896', '107 Main
St'),
(8, 'Jennifer', 'Garcia', 'jennifer.g@example.com', '1234567897', '108
Main St'),
(9, 'Michael', 'Anderson', 'michael.a@example.com', '1234567898', '109
Main St'),
(10, 'Linda', 'Wilson', 'linda.w@example.com', '1234567899', '110 Main
St'),
(11, 'George', 'Morris', 'george.m@example.com', '1234567800', '111 Main
St'),
(12, 'Nancy', 'Taylor', 'nancy.t@example.com', '1234567801', '112 Main
St'),
(13, 'Daniel', 'Lee', 'daniel.l@example.com', '1234567802', '113 Main
St'),
(14, 'Karen', 'Anderson', 'karen.a@example.com', '1234567803', '114 Main
St'),
(15, 'Brian', 'Thomas', 'brian.t@example.com', '1234567804', '115 Main
St');

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INSERT INTO `mydb`.`Medical_Record` (`Medical_Record_ID`, `Description`,
`Date`, `Doctor_Name`)
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VALUES
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(1, 'Allergy to nuts', '2023-01-01', 'Dr. Wilson'),
(2, 'Asthma', '2023-02-02', 'Dr. Johnson'),
(3, 'No known conditions', '2023-03-03', 'Dr. Smith'),
(4, 'Knee surgery', '2023-04-04', 'Dr. Allen'),
(5, 'Allergy to gluten', '2023-05-05', 'Dr. Davis'),
(6, 'Sprained ankle', '2023-06-06', 'Dr. Baker'),
(7, 'Concussion', '2023-07-07', 'Dr. Clark'),
(8, 'Diabetes Type 1', '2023-08-08', 'Dr. Evans'),
(9, 'Allergy to bees', '2023-09-09', 'Dr. Franklin'),
(10, 'Hypertension', '2023-10-10', 'Dr. Garcia'),
(11, 'Migraines', '2023-11-11', 'Dr. Hernandez'),
(12, 'Eczema', '2023-12-12', 'Dr. Innes'),
(13, 'Fractured arm', '2024-01-01', 'Dr. Jones'),
(14, 'Seasonal allergies', '2024-02-02', 'Dr. Klein'),
(15, 'Chronic back pain', '2024-03-03', 'Dr. Lee');
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INSERT INTO `mydb`.`Player` (`Player_ID`, `First_Name`, `Last_Name`,
`DOB`, `Gender`, `Contact`, `Address`, `Mail`, `Parent_ID`,
`Medical_Record_ID`, `Age`)
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VALUES
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```
(1, 'Tom', 'Lee', '2013-06-15', 'M', '1111111111', '101 Main St',
'tom.l@example.com', 1, 1, 10),
(2, 'Lucy', 'Kim', '2008-08-25', 'F', '2222222222', '102 Main St',
'lucy.k@example.com', 2, 2, 15),
(3, 'Mike', 'Smith', '2000-01-30', 'M', '3333333333', '303 Broad St',
'mike.s@example.com', NULL, 3, 23),
(4, 'Sophia', 'Martinez', '2011-12-05', 'F', '4444444444', '104 Main St',
'sophia.m@example.com', 4, 4, 12),
(5, 'Ethan', 'Clark', '2005-05-20', 'M', '5555555555', '205 Pine St',
'ethan.c@example.com', NULL, 5, 18),
(6, 'Emma', 'Rodriguez', '2010-10-10', 'F', '6666666666', '106 Main St',
'emma.r@example.com', 6, 6, 13),
(7, 'Aiden', 'Lopez', '2002-07-15', 'M', '7777777777', '407 Lake St',
'aiden.l@example.com', NULL, 7, 21),
(8, 'Olivia', 'Harris', '2012-09-09', 'F', '8888888888', '108 Main St',
'olivia.h@example.com', 8, 8, 11),
(9, 'Mason', 'Lewis', '2001-11-25', 'M', '9999999999', '509 Hill St',
'mason.l@example.com', NULL, 9, 22),
(10, 'Harry', 'White', '2007-03-21', 'M', '1010101010', '111 Main St',
'harry.w@example.com', 11, 10, 17),
(11, 'Grace', 'Hall', '2009-07-30', 'F', '1111111110', '112 Main St',
'grace.h@example.com', 12, 11, 14),
(12, 'Elijah', 'Allen', '2015-02-18', 'M', '1212121212', '113 Main St',
'elijah.a@example.com', 13, 12, 9),
(13, 'Zoe', 'King', '2014-12-04', 'F', '1313131313', '114 Main St',
'zoe.k@example.com', 14, 13, 9),
(14, 'Chloe', 'Scott', '2016-05-29', 'F', '1414141414', '115 Main St',
'chloe.s@example.com', 15, 14, 7),
(15, 'Adam', 'Wright', '2002-09-15', 'M', '1515151515', '400 Center St',
'adam.w@example.com', NULL, 15, 21);
```

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INSERT INTO `mydb`.`Coach` (`Coach_ID`, `F_name`, `L_name`, `Role`,
`Phone`, `mail`, `Qualifications`, `Gender`, `Game_Type`)
VALUES
(1, 'Alice', 'Murray', 'Head Coach', '9876543210', 'alice.m@example.com',
'Certified', 'F', 'Football, Tennis'),
(2, 'Bob', 'Thompson', 'Assistant Coach', '9876543211',
'bob.t@example.com', 'Advanced', 'M', 'Basketball, Soccer'),
(3, 'Charlie', 'Daniels', 'Technical Coach', '9876543212',
'charlie.d@example.com', 'Professional', 'M', 'Swimming, Hockey'),
(4, 'Diane', 'Richards', 'Strategy Coach', '9876543213',
'diane.r@example.com', 'Certified', 'F', 'Hockey, Tennis'),
(5, 'Edward', 'Smith', 'Defensive Coach', '9876543214',
'edward.s@example.com', 'Advanced', 'M', 'Tennis, Football'),
(6, 'Fiona', 'Clark', 'Head Coach', '9876543215', 'fiona.c@example.com',
'Certified', 'F', 'Basketball, Volleyball'),
(7, 'Gerald', 'Evans', 'Assistant Coach', '9876543216',
'gerald.e@example.com', 'Advanced', 'M', 'Soccer, Swimming'),
(8, 'Heather', 'Moore', 'Technical Coach', '9876543217',
'heather.m@example.com', 'Professional', 'F', 'Gymnastics, Hockey'),
(9, 'Ivan', 'Mitchell', 'Strategy Coach', '9876543218',
'ivan.m@example.com', 'Certified', 'M', 'Tennis, Baseball'),
(10, 'Julia', 'Roberts', 'Defensive Coach', '9876543219',
'julia.r@example.com', 'Advanced', 'F', 'Football, Soccer'),
(11, 'Kevin', 'Perez', 'Head Coach', '9876543220', 'kevin.p@example.com',
'Certified', 'M', 'Swimming, Tennis'),
(12, 'Laura', 'Nelson', 'Assistant Coach', '9876543221',
'laura.n@example.com', 'Advanced', 'F', 'Basketball, Volleyball'),
(13, 'Martin', 'Carter', 'Technical Coach', '9876543222',
'martin.c@example.com', 'Professional', 'M', 'Soccer, Swimming'),
(14, 'Nina', 'Torres', 'Strategy Coach', '9876543223',
'nina.t@example.com', 'Certified', 'F', 'Gymnastics, Hockey'),
(15, 'Oscar', 'Phillips', 'Defensive Coach', '9876543224',
'oscar.p@example.com', 'Advanced', 'M', 'Tennis, Baseball');

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INSERT INTO `mydb`.`Team` (`Team_ID`, `Team_Name`, `Game_type`,
`Age_Group`, `Coach_ID`, `MatchesWon`, `MatchesLost`,
`TotalMatchesPlayed`)
VALUES
(1, 'Tigers', 'Football', 'U10', 1, 10, 0, 10), -- All wins
(2, 'Eagles', 'Basketball', 'U12', 2, 0, 10, 10), -- All losses
(3, 'Sharks', 'Swimming', 'U15', 3, 5, 5, 10), -- Some wins, some losses
(4, 'Lions', 'Hockey', 'U18', 4, 7, 3, 10), -- Mostly wins
(5, 'Hawks', 'Tennis', 'U10', 5, 2, 8, 10), -- Mostly losses
(6, 'Cheetahs', 'Baseball', 'U12', 6, 0, 10, 10), -- All losses
(7, 'Dolphins', 'Swimming', 'U15', 7, 10, 0, 10), -- All wins
(8, 'Falcons', 'Gymnastics', 'U10', 8, 5, 5, 10), -- Some wins, some
losses
(9, 'Gorillas', 'Basketball', 'U18', 9, 7, 3, 10), -- Mostly wins
(10, 'Hyenas', 'Volleyball', 'U10', 10, 2, 8, 10), -- Mostly losses
(11, 'Impalas', 'Soccer', 'U15', 11, 8, 2, 10), -- Mostly wins
(12, 'Jaguars', 'Tennis', 'U18', 12, 3, 7, 10), -- Mostly losses
(13, 'Koalas', 'Football', 'U12', 13, 4, 6, 10), -- Some wins, some
losses
(14, 'Lemurs', 'Hockey', 'U15', 14, 9, 1, 10), -- Mostly wins

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(15, 'Moose', 'Baseball', 'U18', 15, 0, 10, 10);    -- All losses

INSERT INTO `mydb`.`Registration` (`Registration_ID`, `Player_ID`,
`Team_ID`, `Season`, `Payment_Status`, `Fee`, `Date`)
VALUES
(1, 1, 1, 'Spring 2024', 'Paid', 100.00, '2023-06-15'), -- Discount
applied
(2, 2, 2, 'Spring 2024', 'Due', 100.00, '2023-08-25'), -- No discount,
payment due
(3, 3, 3, 'Spring 2024', 'Paid', 100.00, '2023-01-30'), -- No discount
(4, 4, 4, 'Spring 2024', 'Due', 100.00, '2023-12-05'), -- Discount
applied, payment due
(5, 5, 5, 'Spring 2024', 'Paid', 100.00, '2023-05-20'), -- No discount
(6, 6, 6, 'Spring 2024', 'Due', 100.00, '2023-10-10'), -- No discount,
payment due
(7, 7, 7, 'Spring 2024', 'Paid', 100.00, '2023-07-15'), -- No discount
(8, 8, 8, 'Spring 2024', 'Paid', 100.00, '2023-09-09'), -- No discount
(9, 9, 9, 'Spring 2024', 'Due', 100.00, '2023-11-25'), -- No discount,
payment due
(10, 10, 6, 'Spring 2024', 'Paid', 100.00, '2023-03-21'), -- Fully paid
(11, 11, 7, 'Spring 2024', 'Due', 100.00, '2023-07-30'), -- Payment due
(12, 12, 8, 'Spring 2024', 'Paid', 100.00, '2023-02-18'), -- Discount
applied, fully paid
(13, 13, 9, 'Spring 2024', 'Due', 100.00, '2023-12-04'), -- Payment due
(14, 14, 10, 'Spring 2024', 'Paid', 100.00, '2023-05-29'), -- Fully paid
(15, 15, 1, 'Spring 2024', 'Due', 100.00, '2023-09-15'); -- Payment due

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INSERT INTO `mydb`.`Equipment` (`Equipment_ID`, `Equipment_name`,
`Status`, `Team_ID`, `Quantity`)
VALUES
(1, 'Football', 'Good', 1, 4), -- Low quantity
(2, 'Basketball', 'Fair', 2, 12),
(3, 'Swim Fins', 'Excellent', 3, 3), -- Low quantity
(4, 'Hockey Stick', 'Good', 4, 10),
(5, 'Tennis Racquet', 'Fair', 5, 8),
(6, 'Baseball Bat', 'Excellent', 6, 2), -- Low quantity
(7, 'Volleyball', 'Good', 7, 14),
(8, 'Soccer Ball', 'Fair', 8, 5),
(9, 'Cricket Bat', 'Excellent', 9, 1), -- Low quantity
(10, 'Ping Pong Balls', 'Good', 10, 15),
(11, 'Badminton Rackets', 'Fair', 11, 7),
(12, 'Cricket Balls', 'Excellent', 12, 12),
(13, 'Field Hockey Sticks', 'Good', 13, 1), -- Low quantity
(14, 'Lacrosse Sticks', 'Fair', 14, 4), -- Low quantity
(15, 'Water Polo Caps', 'Excellent', 15, 20);

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INSERT INTO `mydb`.`Location` (`Location_ID`, `Location_Name`,
`Location_Address`, `Type`)
VALUES
(1, 'City Sports Complex', '150 City Park', 'Outdoor'),
(2, 'Downtown Arena', '250 Downtown St', 'Indoor'),
(3, 'Riverbank Swimming Center', '350 River Rd', 'Outdoor'),
(4, 'Eastside Hockey Rink', '450 Eastside Blvd', 'Indoor'),
(5, 'West End Tennis Courts', '550 West End Ave', 'Outdoor'),

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(6, 'Central Gymnasium', '650 Central Way', 'Indoor'),
(7, 'South Field', '750 South St', 'Outdoor'),
(8, 'North Ice Rink', '850 North Ave', 'Indoor'),
(9, 'East Track', '950 East Road', 'Outdoor'),
(10, 'West Swimming Pool', '1050 West Blvd', 'Outdoor'),
(11, 'Downtown Sports Arena', '1150 Downtown Rd', 'Indoor'),
(12, 'Uptown Fitness Center', '1250 Uptown St', 'Indoor'),
(13, 'Suburban Sports Complex', '1350 Suburban Ave', 'Outdoor'),
(14, 'City Football Field', '1450 City Ln', 'Outdoor'),
(15, 'Town Basketball Court', '1550 Town Blvd', 'Indoor');
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INSERT INTO `mydb`.`Game` (`Game_ID`, `Date`, `Location_ID`,
`Score_teama`, `Score_teamb`)
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VALUES
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```
(1, '2024-04-10 08:00:00', 1, 3, 0),
(2, '2024-04-11 09:00:00', 2, 1, 2),
(3, '2024-04-12 10:00:00', 3, 0, 0),
(4, '2024-04-13 11:00:00', 4, 4, 1),
(5, '2024-04-14 12:00:00', 5, 2, 2),
(6, '2024-04-15 13:00:00', 6, 5, 3),
(7, '2024-04-16 14:00:00', 7, 0, 1),
(8, '2024-04-17 15:00:00', 8, 2, 2),
(9, '2024-04-18 16:00:00', 9, 1, 0),
(10, '2024-04-19 17:00:00', 10, 3, 2),
(11, '2024-04-20 18:00:00', 11, 0, 3),
(12, '2024-04-21 19:00:00', 12, 1, 4),
(13, '2024-04-22 20:00:00', 13, 2, 1),
(14, '2024-04-23 21:00:00', 14, 4, 0),
(15, '2024-04-24 22:00:00', 15, 0, 0);
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INSERT INTO `mydb`.`Practice_Session` (`Practice_Session_ID`, `Team_ID`,
`Location_ID`, `Date`)
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VALUES
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```
(1, 1, 1, '2024-05-01 08:00:00'),
(2, 2, 2, '2024-05-02 09:00:00'),
(3, 3, 3, '2024-05-03 10:00:00'),
(4, 4, 4, '2024-05-04 11:00:00'),
(5, 5, 5, '2024-05-05 12:00:00'),
(6, 6, 1, '2024-05-06 13:00:00'),
(7, 7, 2, '2024-05-07 14:00:00'),
(8, 8, 3, '2024-05-08 15:00:00'),
(9, 9, 4, '2024-05-09 16:00:00'),
(10, 10, 5, '2024-05-10 17:00:00'),
(11, 1, 1, '2024-05-11 18:00:00'),
(12, 2, 2, '2024-05-12 19:00:00'),
(13, 3, 3, '2024-05-13 20:00:00'),
(14, 4, 4, '2024-05-14 21:00:00'),
(15, 5, 5, '2024-05-15 22:00:00');
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INSERT INTO `mydb`.`Payment` (`Payment_ID`, `Amount_Paid`,
`Remaining_Amount`, `Typeofpayment`, `Registration_ID`)
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VALUES
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```
(1, 95.00, 0.00, 'Credit', 1),    -- Fully paid with discount
(2, 50.00, 50.00, 'Debit', 2),    -- Partially due
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(3, 100.00, 0.00, 'Cash', 3),    -- Fully paid
(4, 20.00, 80.00, 'Credit', 4),  -- Partially due
(5, 100.00, 0.00, 'Debit', 5),   -- Fully paid
(6, 70.00, 30.00, 'Credit', 6),  -- Partially due
(7, 150.00, 0.00, 'Cash', 7),    -- Fully paid
(8, 100.00, 0.00, 'Credit', 8),  -- Fully paid
(9, 90.00, 10.00, 'Debit', 9),   -- Partially due
(10, 75.00, 25.00, 'Credit', 10), -- Partially due
(11, 100.00, 0.00, 'Cash', 11),   -- Fully paid
(12, 85.00, 15.00, 'Debit', 12),  -- Partially due
(13, 100.00, 0.00, 'Credit', 13), -- Fully paid
(14, 60.00, 40.00, 'Cash', 14),   -- Partially due
(15, 100.00, 0.00, 'Debit', 15);  -- Fully paid

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INSERT INTO `mydb`.`Game_has_Team` (`Game_Game_ID`, `Team_Team_ID`,
`Gamescheduleforteam`, `Game_has_TeamID`)

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VALUES
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(1, 1, 'Scheduled', 1),
(2, 2, 'Scheduled', 2),
(3, 3, 'Scheduled', 3),
(4, 4, 'Scheduled', 4),
(5, 5, 'Scheduled', 5),
(6, 1, 'Scheduled', 6),
(7, 2, 'Scheduled', 7),
(8, 3, 'Scheduled', 8),
(9, 4, 'Scheduled', 9),
(10, 5, 'Scheduled', 10),
(1, 2, 'Scheduled', 11),
(2, 3, 'Scheduled', 12),
(3, 4, 'Scheduled', 13),
(4, 5, 'Scheduled', 14),
(5, 1, 'Scheduled', 15);

```

```
--- adding is_captain column to player table
```

```
ALTER TABLE `mydb`.`Player`
```

```
ADD COLUMN `Is_Captain` BOOLEAN NOT NULL DEFAULT 0;
```

```
ALTER TABLE `mydb`.`Player`
```

```
ADD COLUMN `Jersey_Number` INT NULL AFTER `Age`;
```

```
UPDATE `mydb`.`Player`
```

```
SET `Is_Captain` = CASE WHEN MOD(Player_ID, 3) = 0 THEN 1 ELSE 0 END,
    `Jersey_Number` = Player_ID + 10;
```

```
ALTER TABLE `mydb`.`Coach`
```

```
ADD CONSTRAINT `UNIQUE_mail`
```

```
UNIQUE (`mail`);
```

```
--- Query 1 Funtion to get winning percentage
```

```
DELIMITER $$
```

```
CREATE FUNCTION GetWinningPercentage(teamId INT)
```

```
RETURNS DECIMAL(5,2)
```

```
DETERMINISTIC
```

```
BEGIN
```

```

DECLARE wins INT;
DECLARE totalMatches INT;
DECLARE winPerc DECIMAL(5,2);

SELECT `MatchesWon`, `TotalMatchesPlayed` INTO wins, totalMatches
FROM `mydb`.`Team`
WHERE `Team_ID` = teamId;

IF totalMatches > 0 THEN
    SET winPerc = (wins / totalMatches) * 100;
ELSE
    SET winPerc = 0;
END IF;

RETURN winPerc;
END$$

DELIMITER ;

SELECT `Team_ID`, `Team_Name`,
    GetWinningPercentage(`Team_ID`) AS Winning_Percentage
FROM `mydb`.`Team`;

-- Query 2 Most winned players
SELECT player.First_Name, player.Last_Name, team.Team_Name,
team.Game_type, COUNT(*) AS Wins
FROM mydb.Player
JOIN mydb.Registration ON player.Player_ID = registration.Player_ID
JOIN mydb.Team ON registration.Team_ID = team.Team_ID
WHERE registration.Season = 'Spring 2024' AND team.MatchesWon > 5
GROUP BY player.Player_ID, team.Team_Name, team.Game_type
HAVING Wins > 0
ORDER BY Wins DESC, team.Team_Name, player.First_Name;

--- Query 3 Teams that has lost percentage greater than 75%
SELECT Team_Name, MatchesWon, MatchesLost, (MatchesLost / TotalMatchesPlayed
* 100) AS LossPercentage
FROM mydb.Team
WHERE
    (MatchesLost / TotalMatchesPlayed) > 0.75;

--- Query 4 To cal average age of a team

SELECT team.Team_Name, AVG(player.Age) AS Average_Age
FROM mydb.Team
JOIN mydb.Registration ON team.Team_ID = registration.Team_ID
JOIN mydb.Player ON registration.Player_ID = player.Player_ID
GROUP BY team.Team_ID
HAVING Average_Age > 15
ORDER BY Average_Age DESC;

--- Query 5 Total amount of payments received by a team

```

```

SELECT Team.Team_ID, Team.Team_Name, Team.Game_type, SUM(Payment
.Amount_Paid) AS Total_Payments
FROM Team
JOIN Registration ON Team .Team_ID = Registration .Team_ID
JOIN Payment  ON Registration.Registration_ID = Payment .Registration_ID
GROUP BY Team .Team_ID, Team .Team_Name;

```

```

--- query 6 function to count unique game types assigned to a coach
DELIMITER //

```

```

CREATE FUNCTION CountUnique_GameTypes(coachID INT) RETURNS INT
DETERMINISTIC
BEGIN
    DECLARE gameTypeCount INT;
    SELECT COUNT(DISTINCT Game_Type) INTO gameTypeCount
    FROM Coach
    WHERE Coach_ID = coachID;
    RETURN gameTypeCount;
END //

```

```

DELIMITER ;

```

```

SELECT
    Coach.Coach_ID,
    CONCAT(Coach.F_name, ' ', Coach.L_name) AS Coach_Name,
    Coach.Game_Type,
    Team.Team_Name
FROM Coach
JOIN Team ON Coach.Coach_ID = Team.Coach_ID
WHERE
    CountUnique_GameTypes(Coach.Coach_ID) > 0
LIMIT 0, 1000;

```