

SQL Code w Seating Chart

```
-- create a table
CREATE TABLE Class (
    ClassID INT PRIMARY KEY,
    ClassSize INT
);

CREATE TABLE Student (
    StudentID INT PRIMARY KEY,
    FirstName VARCHAR(255),
    MiddleName VARCHAR(255),
    LastName VARCHAR(255),
    ClassIDE INT,
    DateOfBirth Date,
    MailingAddress VARCHAR(255),
    StreetAddress VARCHAR(255),
    City VARCHAR(255),
    State VARCHAR(255),
    Zip VARCHAR(255),
    PhoneNumber VARCHAR(255),
    EmergencyContactName VARCHAR(255),
    EmergencyContactPhone VARCHAR(255),
    Guardian1Name VARCHAR(255),
    Guardian1CellPhone VARCHAR(255),
    Guardian1WorkPhone VARCHAR(255),
    Guardian1WorkPlace VARCHAR(255),
    SeatNumber INT,
    FOREIGN KEY (ClassIDE) REFERENCES Class(ClassID)
);

CREATE TABLE RanSeatingChart (
    StudentID INT PRIMARY KEY,
    SeatNumber INT
);

-- insert some values from the Class table
INSERT INTO Class (ClassID, ClassSize) VALUES (1, 20);

-- insert some values from the Student table
INSERT INTO Student (StudentID, ClassIDE, FirstName, MiddleName, LastName,
DateOfBirth, MailingAddress, StreetAddress, City, State, Zip,
PhoneNumber, EmergencyContactName, EmergencyContactPhone, Guardian1Name,
Guardian1CellPhone, Guardian1WorkPhone, Guardian1WorkPlace, SeatNumber)
VALUES
```

SQL Code w Seating Chart

```
(1, 1, 'Ria', 'Mike', 'Golden', '2011-10-21', '7862 Plumb Branch Street',  
'7862 Plumb Branch Street', 'Matawan', 'NJ', '07747', '555-555-555',  
'Josh Walsh', '555-555-561', 'Jessica Walsh', '555-555-123', '555-555-553'  
, 'ABC INC', 1),
```

```
(2, 1, 'Karina', 'Faye', 'Valentine', '2011-9-5', '8626 Gregory St.',  
'8626 Gregory St.', 'Algonquin', 'IN', '60102', '555-555-554',  
'Marc Moran', '555-555-551', 'Iona Moran', '555-555-552', '555-555-553' ,  
'EFG INC', 2),
```

```
(3, 1, 'Dafdd', 'Lawerence', 'Perry', '2011-5-23', '400 Arlington Lane',  
'400 Arlington Lane', 'Hillsboro', 'OR', '97124', '555-555-553',  
'Lucus Deleon', '555-555-556', 'Amira Deleon', '555-555-557',  
'555-555-553' , 'HIJ INC', 3),
```

```
(4, 1, 'Seamus', 'Hermione', 'Wu', '2011-7-28', '951 Blue Spring Road',  
'951 Blue Spring Road', 'Butte', 'MT', '59701', '555-555-555',  
'Teddy Wu', '555-555-555', 'Rhea Wu', '555-555-555', '555-555-553' , 'KLM  
INC', 4),
```

```
(5, 1, 'Kyle', 'Miller', 'House', '2011-7-1', '81 Livingston Drive', '81  
Livingston Drive', 'Alabaster', 'AL', '35007', '555-555-555',  
'Aleksander House', '555-555-555', 'Bonnie House', '555-555-553' ,  
'555-555-123', 'NOP INC', 5),
```

```
(6, 1, 'Zakariya', 'Louis', 'Sawyer', '2011-4-15', '74 North Branch  
Street', '74 North Branch Street', 'Vincetown', 'NJ',  
'08088', '555-555-555',  
'Bilal Sawyer', '555-555-555', 'Tamzinz Sawyer', '555-555-553'  
, '555-555-123', 'QRS INC', 6),
```

```
(7, 1, 'Juanita', 'Wo', 'Obrien', '2011-1-2', '626 Sierra St', '626 Sierra  
St', 'Osseo', 'MN', '55311', '555-555-555',  
'Romero Obrien', '555-555-555', 'Georgina Obrien', '555-555-123',  
'555-555-553' , 'TUV INC', 7),
```

```
(8, 1, 'Kamran', 'Leach', 'Rice', '2011-1-8', '7244 Bay Meadows Street',  
'7244 Bay Meadows Street', 'North Andover', 'MA', '01845', '555-555-555',  
'Stevens Rice', '555-555-555', 'Hilton Rice', '555-555-123', '555-555-553'  
, 'WXY INC', 8),
```

```
(9, 1, 'Timothy', 'Jone', 'Thompson', '2011-3-2', '24 Silver Spear  
Circle', '24 Silver Spear Circle', 'Lawrence Township', 'NJ',  
'08648', '555-555-555',  
'Sonny Thompson', '555-555-555', 'Haroon Thompson', '555-555-123',  
'555-555-553' , 'ZPP INC', 9),
```

SQL Code w Seating Chart

```
(10, 1, 'Natasha', 'Natty', 'Chase', '2011-12-25', '45 Lake Ave.', '45 Lake Ave.', 'Wellington', 'FL', '33414', '555-555-555', 'Timmy Chase', '555-555-555', 'Hanna Chase', '555-555-123', '555-555-553', 'APP INC', 10),
```

```
(11, 1, 'Lukas', 'Pippa', 'Rivera', '2012-1-11', '3 High Ave', '3 High Ave', 'Mableton', 'GA', '30126', '555-555-555', 'Larry Rivera', '555-555-555', 'Angelina Rivera', '555-555-123', '555-555-553', 'BPP INC', 11),
```

```
(12, 1, 'Brayden', 'Osian', 'Downs', '2012-2-25', '593 Franklin Ave.', '593 Franklin Ave.', 'Abingdon', 'MD', '21009', '555-555-555', 'Hamzah Downs', '555-555-555', 'Camilla Downs', '555-555-123', '555-555-553', 'CPP INC', 12),
```

```
(13, 1, 'Hanna', 'Anne', 'Huff', '2012-4-20', '9313 Grove Street', '9313 Grove Street', 'Allentown', 'PA', '18102', '555-555-555', 'Gareth Huff', '555-555-555', 'Alina Huff', '555-555-123', '555-555-553', 'EPP INC', 13),
```

```
(14, 1, 'Charlotte', 'Maximilian', 'Preston', '2012-10-31', '39 Johnson Drive', '39 Johnson Drive', 'Marborough', 'MA', '01752', '555-555-555', 'Harison Preston', '555-555-555', 'Lorraine Preston', '555-555-123', '555-555-553', 'JPP INC', 14),
```

```
(15, 1, 'Nora', 'Lorcan', 'Olsen', '2012-11-19', '64 Prospect Lane', '64 Prospect Lane', 'North Miami Beach', 'FL', '33160', '555-555-555', 'Cai Olsen', '555-555-555', 'Ruby Olsen', '555-555-123', '555-555-553', 'NPP INC', 15),
```

```
(16, 1, 'Amy', 'Amelia', 'Wilson', '2012-9-3', '7761 North Hillside Street', '7761 North Hillside Street', 'Gleb Burnie', 'MD', '21060', '555-555-555', 'Malika Wilson', '555-555-555', 'Tanisha Wilson', '555-555-123', '555-555-553', 'FPP INC', 16),
```

```
(17, 1, 'Kimberly', 'Humaira', 'Little', '2012-12-24', '894 Golf Ave', '894 Golf Ave', 'Sun City', 'AZ', '85351', '555-555-555', 'John Little', '555-555-555', 'Mandy Little', '555-555-123', '555-555-553', 'LPP INC', 17),
```

```
(18, 1, 'Rowan', 'Melanie', 'Berg', '2012-4-6', '814 Peninsula Street', '814 Peninsula Street', 'Mebane', 'NC', '27302', '555-555-555', 'Tom Berg', '555-555-555', 'Cameron Berg', '555-555-123', '555-555-553', 'WPP INC', 18),
```

SQL Code w Seating Chart

```
(19, 1, 'Rafael', 'Logan', 'Vega', '2012-1-16', '8332 Bald Hill Street',  
'8332 Bald Hill Street', 'Soddy Daisy', 'TN', '37379', '555-555-555',  
'Devon Vega', '555-555-555', 'Blanche Vega', '555-555-123', '555-555-553',  
, 'RPP INC', 19),
```

```
(20, 1, 'Martin', 'Woodard', 'Moore', '2012-6-6', '39 Fairground St.', '39  
Fairground St.', 'Pompano Beach', 'FL', '33060', '555-555-555',  
'Abu Moore', '555-555-555', 'Soina Moore', '555-555-123', '555-555-553',  
'TPP INC', 20);
```

```
-- Insert RanSeatingChart  
INSERT INTO RanSeatingChart (StudentID, SeatNumber)  
SELECT Student.StudentID, ABS(CHECKSUM(NEWID())) % ClassSize + 1  
FROM Student  
JOIN Class ON Student.ClassIDE = Class.ClassID  
WHERE ClassID = 1;
```

```
-- Update seating RanSeatingChart  
UPDATE Student  
SET SeatNumber = RanSeatingChart.SeatNumber  
FROM Student  
JOIN RanSeatingChart ON Student.StudentID = RanSeatingChart.StudentID;
```

```
-- Calling the code to execute  
SELECT *  
FROM Student  
JOIN Class ON Student.ClassIDE = Class.ClassID  
JOIN RanSeatingChart ON Student.StudentID = RanSeatingChart.StudentID  
WHERE Class.ClassID = 1  
ORDER BY NewID();
```