ER\_Group20

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**CustomerRepresentative**(firstName: varchar(50), lastName: varchar(50), SSN: int, PrimaryKey(SSN))

**Reservation** (passenger: varchar(50), train#: int, date: date, reservation#: int, destination: varchar(50), seat: varchar(5), class: varchar(50), bookingFee: double, origin: varchar(50), totalFare: double, dateMade: date, transitLineName: varchar(50), crSSN: int, customerUsername: varchar(50), PrimaryKey(reservation#, transitLineName, srSSN, customerUsername), ForeignKey(transitLineName) references TransitLine not NULL, ForeignKey(crSSN) references CustomerRepresentative not NULL, ForeignKey(customerUsername) references Customer not NULL)

**Customer** (firstName: varchar(50), email: varchar(50), telephone: varchar(10), lastName: varchar(50), address: varchar(50), city: varchar(50), state: varchar(50), password: varchar(50), username: varchar(50), zipCode: int, PrimaryKey(username))

**Station** (StationID: int, name: varchar(50), city: varchar(50), state: varchar(50), PrimaryKey(StationID))

**Train** (TrainID: int, #seats: int, #cars: int, PrimaryKey(TrainID))

**StopsAt** (stationID: int, trainID: int, arrivalTime: dateTime, departureTime: dateTime, fare: double, PrimaryKey (stationID, trainID), ForeignKey (stationID) reference Station, ForeignKey (trainID) references Train)

**RidesOn** (fare: double, stationID: int, trainID: int, transitName: varchar(50), primaryKey (stationID, trainID, transitLine), ForeignKey (stationID, trainID) references StopsAt, ForeignKey (transitLine) references TransitLine)

**TransitLine** (name: varchar(50), #stops: int, origin: varchar(50), destination: varchar(50), startTime: dateTime, endTime: dateTime, PrimaryKey (Name))

**Schedule** (travelTime: time, availableSeats: int, name: varchar(20), PrimaryKey(name, travelTime), ForeignKey(name) references TransitLine not NULL)