Assumptions:

- Train Schedules may have 0 trains running. For instance, some routes may be seasonal, then during certain months, those train schedules will not have any trains running.
- At any given point in time, for simplicity, we assume that each Train is scheduled on exactly 1 Train Schedule.
- Total fare for a Reservation is implemented as an attribute. It will be set to the base value if is_roundtrip is false and doubled if is_roundtrip is true.
- Trip type (one way or round trip) is determined by a boolean instead of an ISA to allow for simplicity in data
- Discount type (child, senior, disabled) is determined by a varchar instead of an ISA to allow for simplicity in data handling.
- Stops was divided into a relationship and an attribute to Train Schedules. Reason being, the number of stops in a Train Schedule is relevant to determining the fare for that Train Schedule and the stop itself is a Station.

fare

stop_arrival_time

stop_departure_time

stop_number

TrainSchedules

num_stops

<u>line name</u>

stops_at

scheduled

destination

Stations

• Past Reservations will not be deleted from the database in order to preserve customer history.

train_id

Administrators manage 0 or more Customer Representatives and a Customer Representative can be managed by at least 1 Administrator.

Trains

origin_stop

station_id

state

city

