

Task 2)

Member (MemberID, Name, Email, ContactNumber)

 $Rental Transaction (\underbrace{Transaction ID}_{L}, Payment Amount, retrieval_date time, return_date time, from_slot ID, to_slot ID, Member ID, Scooter ID, distance Travelled)$

- Foreign keys:
- o from_slotID refers ScooterParkingSlot.SlotID
- o to_slotID refers ScooterParkingSlot.SlotID
- MemberID refers Member.MemberID
- o ScooterID refers ElectricScooter.ScooterID

Reservation (<u>reservationID</u>, datetime, MemberID, serviceAreaID)

- Foreign keys:
 - MemberID refers to Member.MemberID
 - $\circ \ \ \mathsf{serviceAreaID} \ \mathsf{refers} \ \mathsf{ServiceArea.serviceAreaID}$

Coupon (couponID, expiration_date, MemberID)

- Foreign keys:
 - MemberID refers Member.MemberID

FreeRide (couponID, transactionApplied)

- Foreign keys:
 - o couponID refers Coupon.couponID
 - o transactionApplied refers RentalTransaction.TransactionID
 - can be null if the coupon is not redeemed

MerchantDiscount (couponID)

- · Foreign keys:
 - o couponID refers Coupon.couponID

 $Merchant Discount Acceptance \ (\underline{coupon Id,} merchant ID) \\$

- Foreign keys:
- merchantID refers Merchant.merchantID

ServiceArea (serviceAreaID, name, parentServiceArea)

Foreign keys:

- parentServiceArea refers ServiceArea.serviceAreaID
 Can be null if its name is "Los Angeles" as stated in the figure "Step 1".

$Merchant \, (\underline{merchantID})$

 ${\tt ScooterParkingStation}~(\underline{stationID}, merchantID, serviceAreaID)$

- - $\circ \ \ \mathsf{serviceAreaID} \ \mathsf{refers} \ \mathsf{ServiceArea.serviceAreaID}$

${\sf ScooterParkingSlot}~(\underline{\sf stationID},\underline{\sf SlotID})$

${\sf ElectricScooter} \, (\underline{\sf ScooterID}, \, {\sf BatteryLevelPercent}, \, {\sf SlotID})$

- Foreign keys:
 SlotID refers ScooterParkingSlot.SlotID
 Can be null