



Lucid Chart Link

NOTE : We have extensively used association classes in our design, for eg. in the SentBy, ToBeReceivedBy and the ToBeDeliveredBy relations. The primary key of all these tables is orderId itself leading to associations in both directions: Order.id references SentBy.orderId in some joins and SentBy.orderId references Order.id in other joins.

Order Table

Primary key: id

Foreign key: id **references**
SentBy.orderId,
ToBeReceivedBy.orderId,
ToBeDeliveredBy.orderId,
OrderStatus.orderId

id, deliveryRate, weight, isFragile,
isExpressDelivery NOT NULL

OrderStatus Table

Primary key: orderId

```
Foreign key: orderId references
                Order.id

currentLocationId references
                Location.id
```

orderId NOT NULL

SentBy Table

Primary key: orderId

Foreign key: orderId references
Order.id

```
senderPhoneNumber references
  User.phoneNumber
```

orderId, senderPhoneNumber NOT
NULL

ToBeReceivedBy Table

Primary key: orderId

Foreign key: orderId references
Order.id

```
receiverPhoneNumber references
    User.phoneNumber
```

orderId, receiverPhoneNumber
NOT NULL

ToBeDeliveredBy Table

Primary key: orderId

Foreign key: orderId references
Order.id

agentPhoneNumber **references**
User.phoneNumber

orderId, agentPhoneNumber NOT
NULL

User Table

Primary key: phoneNumber

Foreign key: addressId **references**
Address.id

```
name, phoneNumber, addressId,  
isAdmin NOT NULL
```

Agent (Inherited from User)

Primary key: phoneNumber

Foreign key: addressId
references Address.id

locationId **references**
Location.id

name, phoneNumber, addressId,
isAdmin, locationId NOT NULL

Address

Primary key: id

Foreign key: locationId
references Location.id

id, locationId NOT NULL

Location

Primary key: id

id, city, state, district NOT NULL

Rate

Primary key: { fromLocationId,
toLocationId }

Foreign key: fromLocationId
references Location.id

toLocationId **references**
Location.id

fromLocationId, toLocationId
NOT NULL