Customers' Address → Address Data Store

Profile → CUSTOMER

Online Customers' Data

Walkin Customers' name, Phone → Walkin Customers Data

Online Customers Data

name, Phone

Walkin Customers' Data

Data Recording Process 1

Online customer name, phone

Merge Data for Consolidated View 2

name, Phone

Addresses

STORE MANAGER

Customers' Profile

Records with Complete and Correct zipcode.

Split Data for Zipcode Corrections 3

Consolidated data for correction

Records with missing zipcode

Display Customer Profiles 6

Correct/ Assign Missing Zipcode 4

complete and Correct zipcodes for areas

Records with complete and correct Zip codes

Correct Incomplete Zip codes 5

Complete and Correct zipcode for areas

Zipcodes Repository

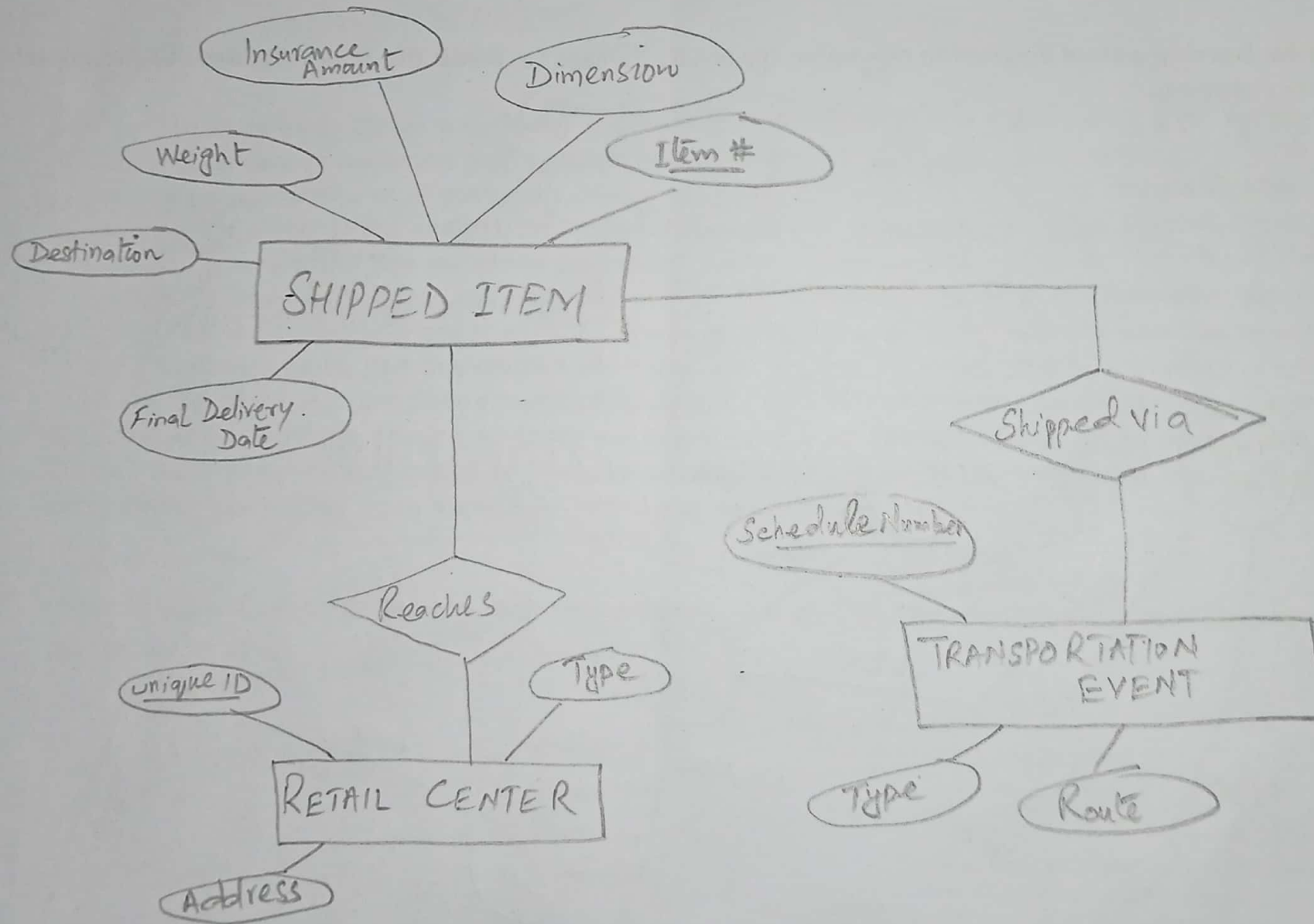Records with complete and correct zipcodes

To do: Develop an **Entity Relationship (ER) diagram** that captures this information about the Excellent Couriers system.

To do: Develop a state diagram to remember the vehicle damage i.e. model the different states of a moving vehicle after collisions.

Initial state is 100 Strength Points (or 0 damage).

Final state is 0 Strength Points (or 100 damage).

Events are the collisions. Collisions are of types Low, Medium, High

LDC damage = 20, MDC damage = 30, HDC damage = 50

| Low Damage Collision (LDC) | Medium Damage Collision (MDC) | High Damage Collision (HDC) |