**Solution to Module 9 Problem 2**



The ERD below fixes the errors in the original ERD. The following list describes the problem resolutions.

* The information is inconsistent as it narrates that one payment is made per sale although multiple payments are sometimes made if a customer provides cash for part of the sale.
* Account should not be a weak entity type (weak entity type diagram error).
* The IncomeOfrelationship should not be identifying (identifying relationship diagram error).
* The ExpenseOfrelationship should not be identifying (identifying relationship diagram error).
* The Soldrelationship from Vehicle to Payment should be removed because it is inconsistent with the specification and redundant if corrected ( redundant relationship design error). The specification indicates that the employee that completed the sales transaction and vehicle should be recorded. The same employee works as sales associate and processes the payment to complete the sale. The Sold relationship makes the relationship redundant with the MakesSale and Process relationships.
* Each payment is associated with one account. So IncomeOf relationship should be 1-1 and not 1-M (cardinality relationship design error)
* The specification is incomplete about attribute constraints such as null value allowed and data types
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