Assignment # 4
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PART I: Suppose you had an entity with the following attributes:

INV_NUMBER, LINE_NUMBER, INV_DATE, CUS_CODE, P_CODE, P_PRICE, P_DESCRIPTION, LINE_UNITS, LINE_PRICE, V_CODE, V_NAME

where (INV_NUMBER, LINE_NUMBER) is a composite primary key.

Answer the following questions:

1. Identify all partial dependencies:

   - LINE_NUMBER --> LINE_UNITS
   - LINE_NUMBER --> LINE_ PRICE

2. Identify all transitive dependencies:

   - None because it is 3NF

Part II: Assume that the Crow's Foot ERD shown below is in 3NF:

3. Identify all partial dependencies.

   - LINE_NUMBER --> LINE_UNITS
   - LINE_NUMBER --> LINE_ PRICE

4. Identify all transitive dependencies.

   - None because it is 3NF

5. List the relations from the 3NF Crow's Foot ERD below.

   - CUSTOMER (CUS_CODE, CUS_LNAME, CUS_AREACODE, CUS_INITIAL, CUS_BALANCE, CUS_PHONE, CUS_FNAME)
   - INVOICE (INV_NUMBER, INV_DATE, CUS_CODE)
   - LINE (INV_NUMBER, LINE_NUMBER, LINE_UNITS, P_CODE, LINE_PRICE)
   - PRODUCT (P_CODE, P_QOH, P_DISCOUNT, V_CODE, P_PRICE, P_MIN, P_DESCRIPTION, P_INDATE)
   - VENDOR (V_CODE, V_NAME, V_CONTACT, V_PHONE, V_ORDER, V_STATE, V_AREACODE)

6. List the primary keys and the foreign keys associated with the different relations:

   CUS_CODE, INV_NUMBER, LINE_NUMBER, LINE_NUMBER, P_CODE, V_CODE