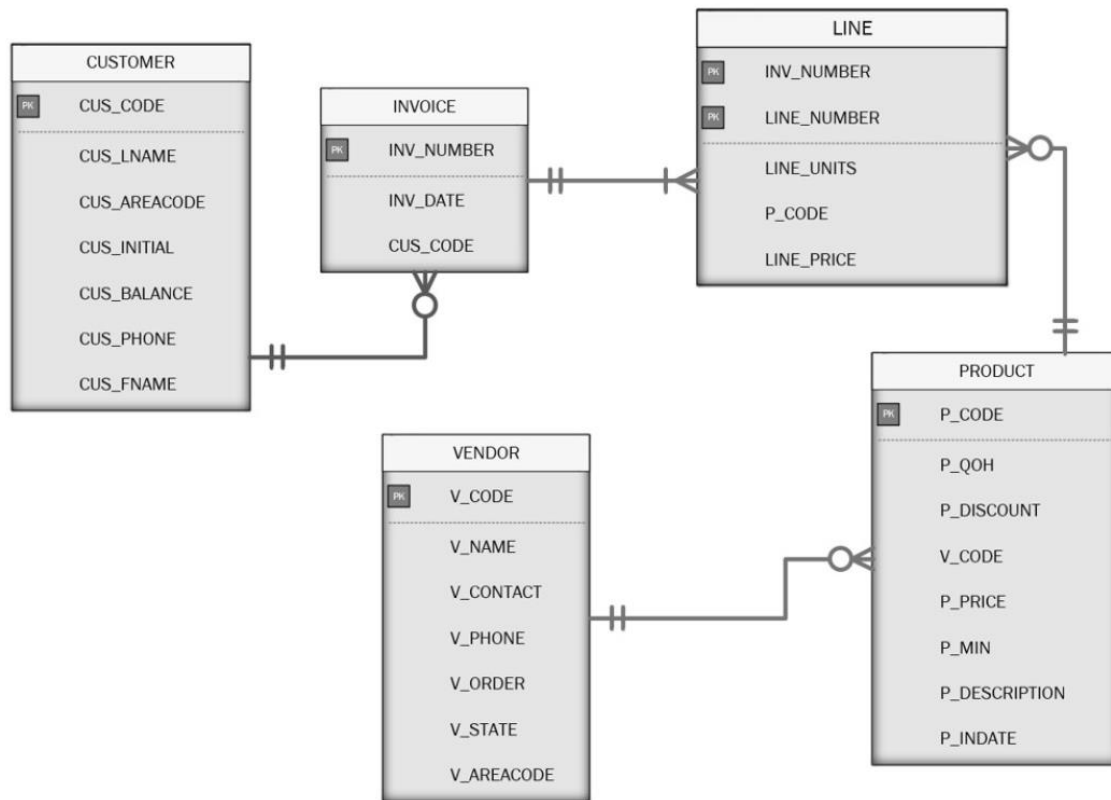


Assignment 4:

Module 4. Assignment 1: Creating Relations in 3NF from an Entity Relationship Diagram (ERD)

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1. Identify all partial dependencies
 - LINE (LINE_UNIT, LINE_PRICE)
2. Identify all transitive dependencies.
 - CUSTOMER (CUS_AREACODE)
 - VENDOR (V_AREACODE)
 - PRODUCT (P_DISCOUNT)
3. List the relations from the 3NF Crow's Foot ERD below.
 - **Customer** table relate to **Invoice** table as a foreign key (1:M) 1 mandatory to many optional
 - **Invoice** table relates to **Line** table as both foreign and primary key *inv_number* of line table (1: M) 1 to Many - 1 mandatory to many mandatory

- **Product** table relate to **Line** table as foreign key *p_code* to that table (1:M) 1 to Many - 1 mandatory to many optional
 - **Vendor** relate to the **product** table as foreign key *v_code* (1:M) 1 to Many - 1 mandatory to many optional
4. List the primary keys and the foreign keys associated with the different relations.
- CUSTOMER
 - i. CUS_CODE: PK
 - INVOICE
 - i. INV_NUMBER: PK
 - ii. CUS_CODE: FK
 - LINE
 - i. INV_NUMBER: PK
 - ii. LINE_NUMBER: PK
 - iii. P_CODE: FK
 - PRODUCT
 - i. P_CODE: PK
 - ii. V_CODE: FK
 - VENDOR
 - i. V_CODE: PK