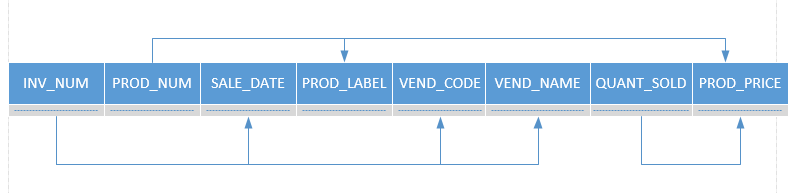
Trisia Baltazar

Due: Oct 11

CIS 310-02-4178

Assignment 6

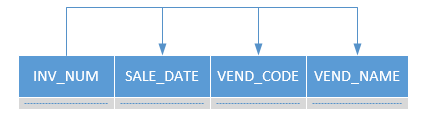
(A)

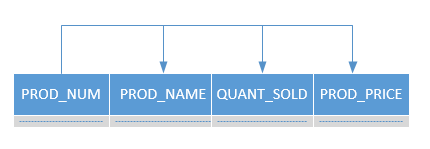


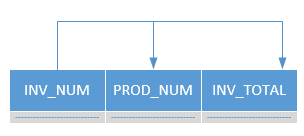
(B) This table is in 1NF if the table has no repeating groups and the primary keys are identified (INV\_NUM, PROD\_NUM).

(C) This table is not in 2NF because it is in 1NF and there are partial dependences.

A partial dependency occurs when the determinant is part of the primary key. On the table in (A), SALE\_DATE, VEND\_CODE, and VEND\_NAME are partially dependent on INV\_NUM. PROD\_LABEL, QUANT\_SOLD, and PROD\_PRICE are partially dependent on PROD\_NUM.



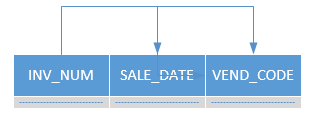


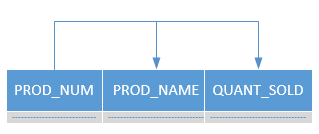


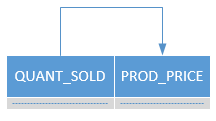
(D) The database above is not in 3NF because it is in 2NF and there are transitive dependencies.

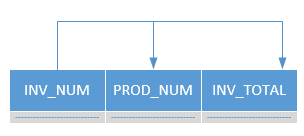
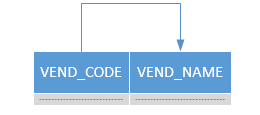
A transitive dependency occurs when a non-key attribute determines other non-key attributes.

QUANT\_SOLD and PROD\_PRICE shows a transitive dependency where PROD\_PRICE is dependent on QUANT\_SOLD.









(E)

