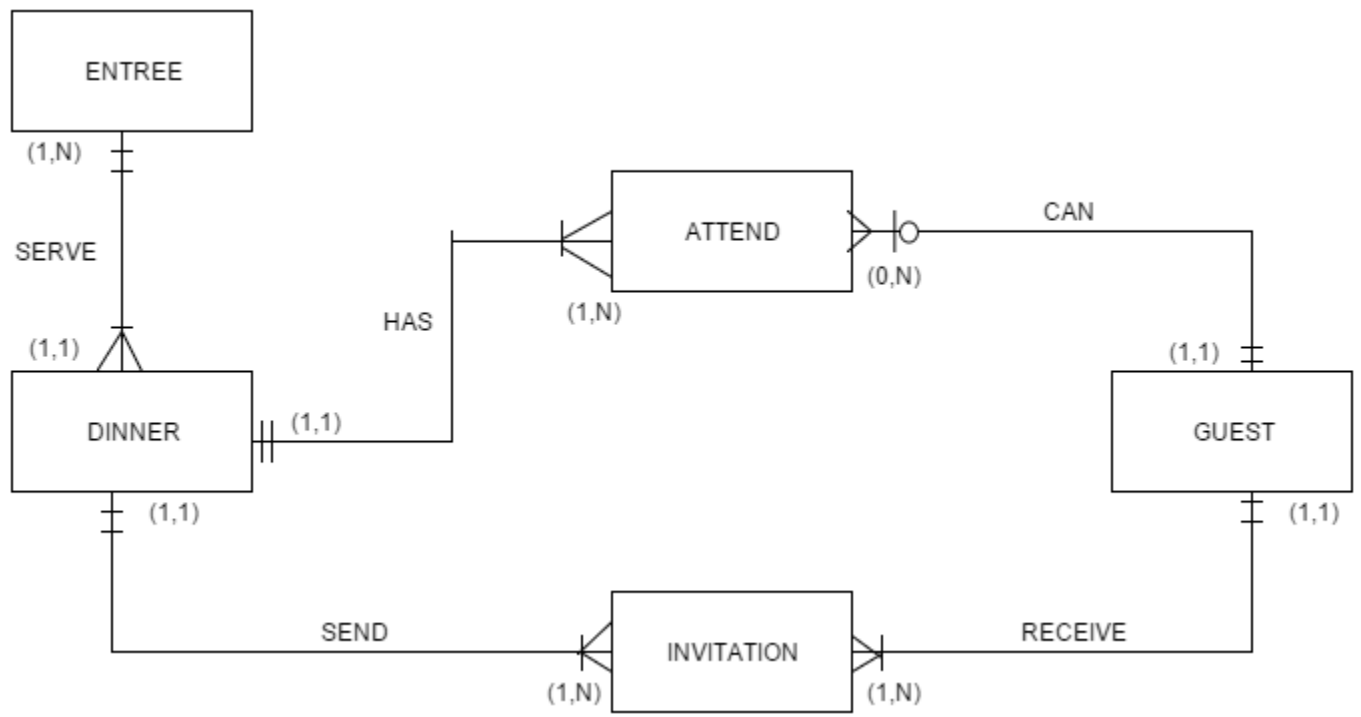


Assignment IV
DATABASE DESIGN Z511
FNU ANIRUDH

QUESTION 1

A multivalued attribute can be either broken down into multiple single-valued attributes or either it can be turned into a completely new entity having the original multivalued attribute's components.

QUESTION 2



QUESTION 3

1NF (INV_NUM, PROD_NUM, SALE_DATE, PROD_LABEL, VEND_CODE, VEND_NAME, QUANT_SOLID, PROD_PRICE)

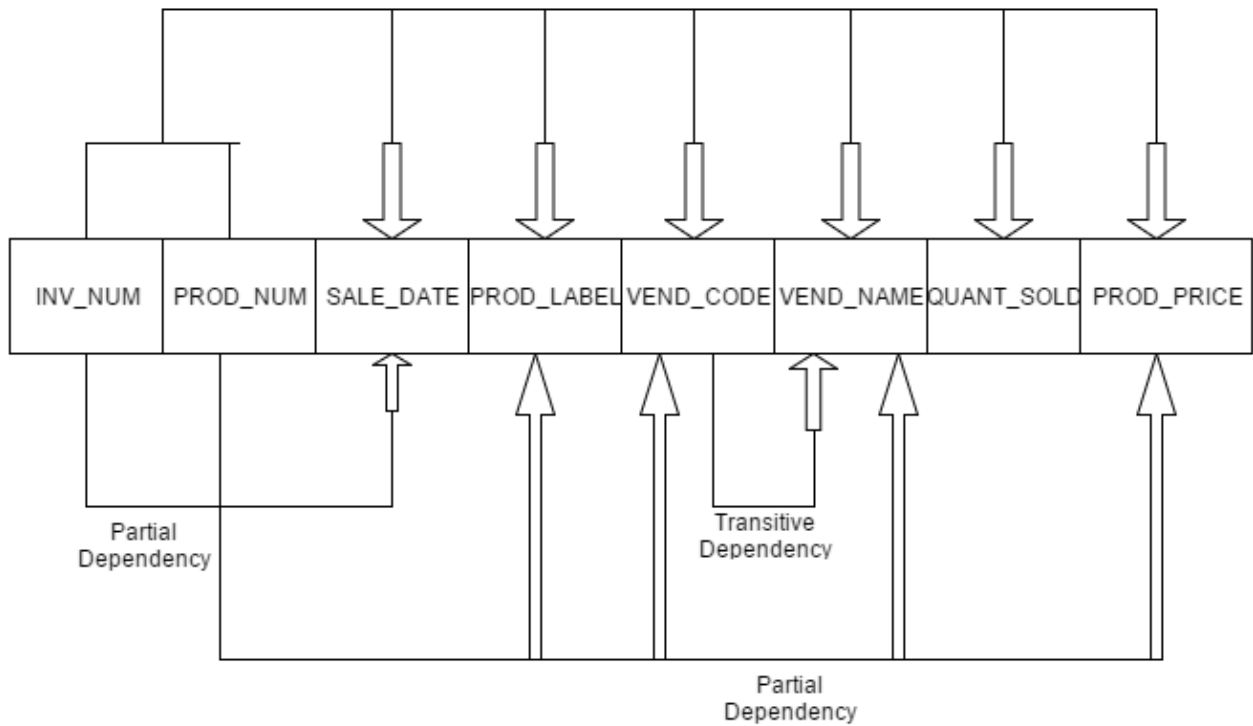
PARTIAL DEPENDENCIES:

(INV_NUM → SALE_DATE)

(PROD_NUM → PROD_LABEL, PROD_PRICE, VEND_CODE, VEND_NAME)

TRANSITIVE DEPENDENCIES:

(VEND_CODE → VEND_NAME)



QUESTION 4

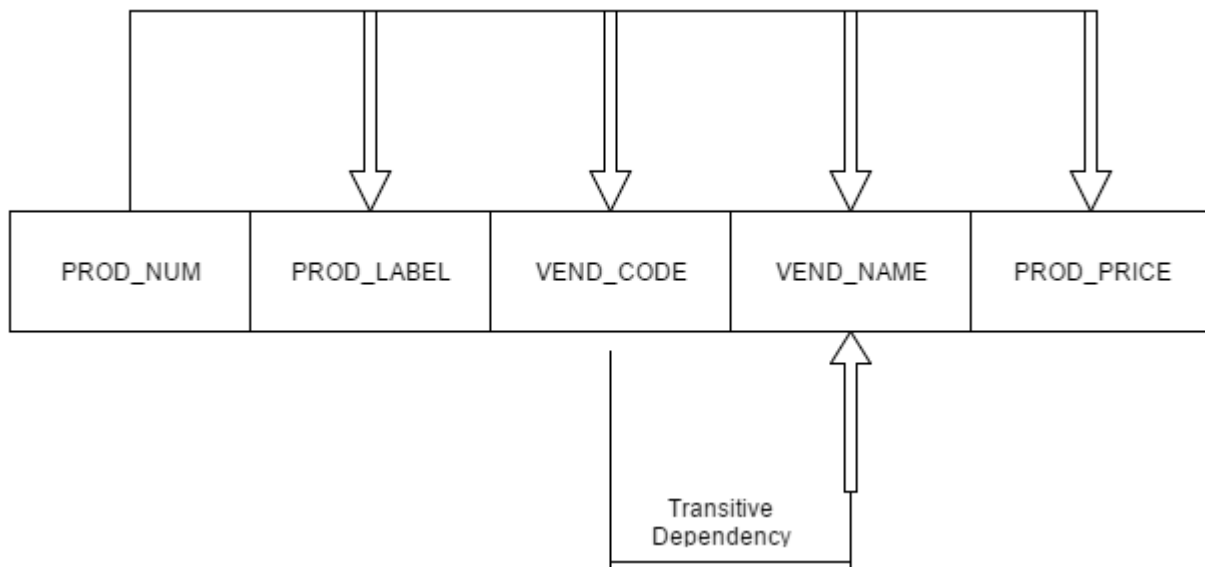


Table Name: PRODUCT

PRODUCT (**PROD_NUM**, PROD_LABEL, VEND_CODE, VEND_NAME, PROD_PRICE)

TRANSITIVE DEPENDENCIES:

(VEND_CODE → VEND_NAME)

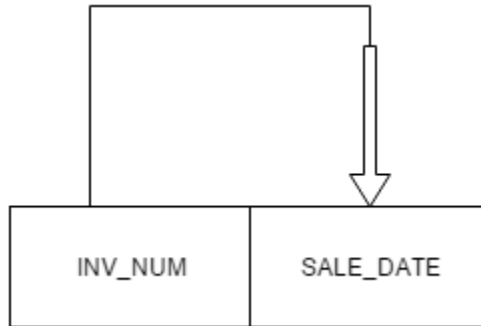


Table Name: SALE

SALE (**INV_NUM**, SALE_DATE)

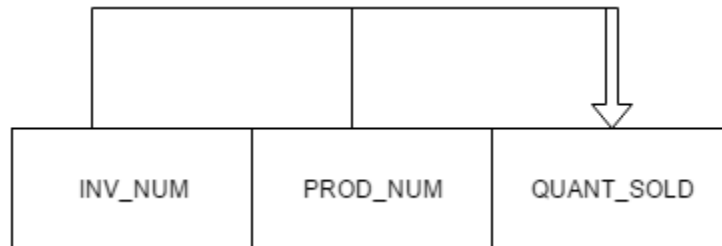


TABLE NAME: INVOICE

INVOICE (**INV_NUM**, **PROD_NUM**, QUANT_SOLD)

QUESTION 5

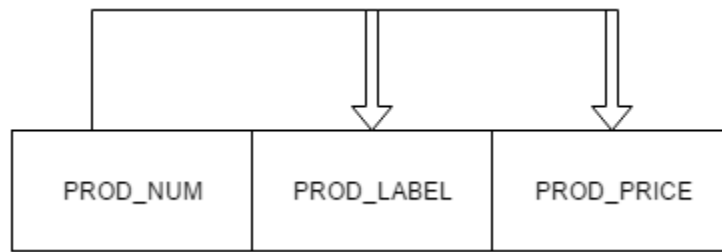


Table Name: PRODUCT

PRODUCT (**PROD_NAME**, PROD_LABEL, PROD_PRICE)

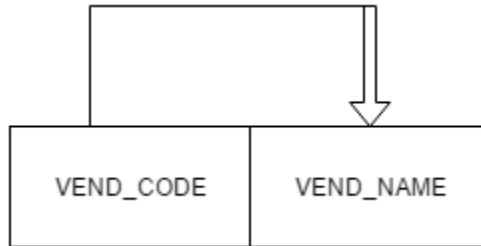


Table Name: VENDOR

VENDOR (**VEND_CODE**, VEND_NAME)

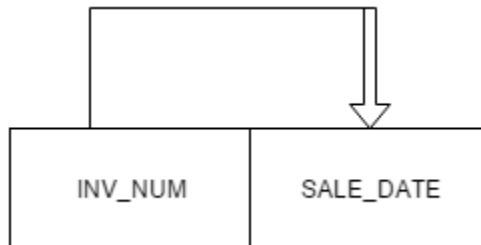


Table Name: SALE

SALE (**INV_NUM**, SALE_DATE)

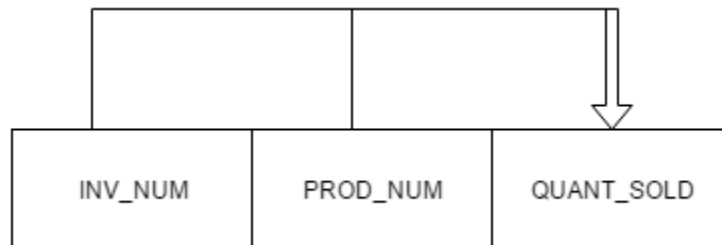


Table Name: INVOICE

INVOICE (**INV_NUM**, **PROD_NUM**, QUANT_SOLD)

QUESTION 6

