**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**

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**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**

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**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**

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