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CIS-310-02

3 October 2018

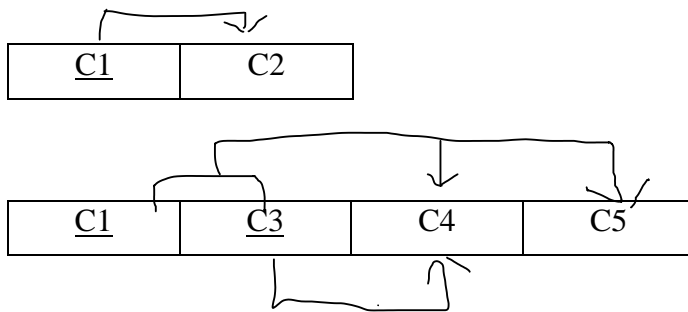
PART 1

In Figure Q6.6 there is a partial dependency between C1 and C2 and a transitive dependency between C4 and C5.

The given table is in 1NF because there no repeating rows and all tables relate to each other.

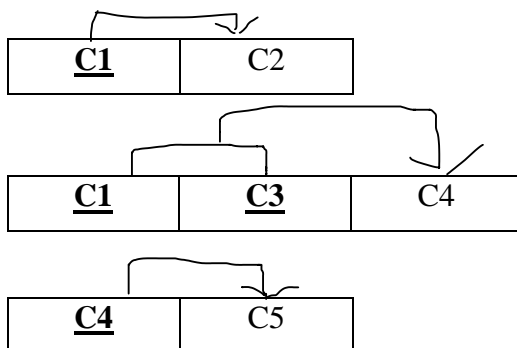
The result is not in 2NF. The table must have no partial dependencies.

2NF:



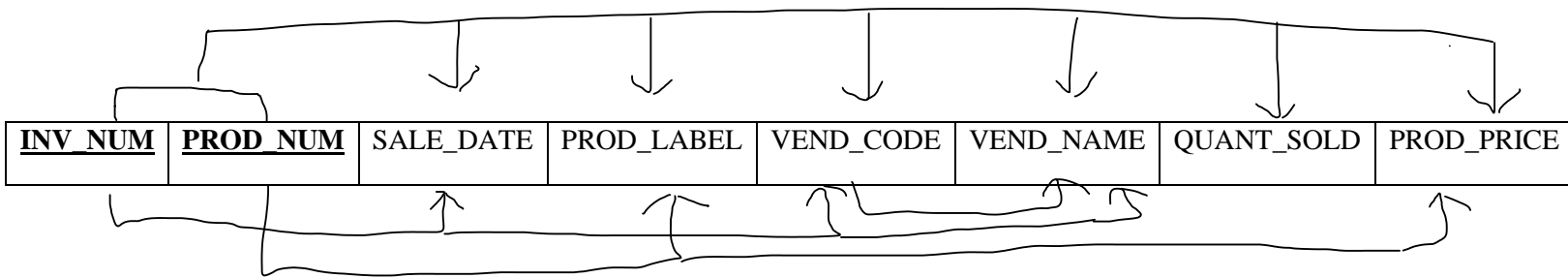
The result is not in 3NF. There is still a transitive dependency.

3NF:



PART 2

INV_NUM, PROD_NUM, SALE_DATE, PROD_LABEL, VEND_CODE, VEND_NAME,
QUANT_SOLD, PROD_PRICE



Partial dependencies: INV_NUM, SALE_DATE, VEND_CODE, and VEND_NAME

PROD_NUM and PROD_LABEL, PROD_PRICE

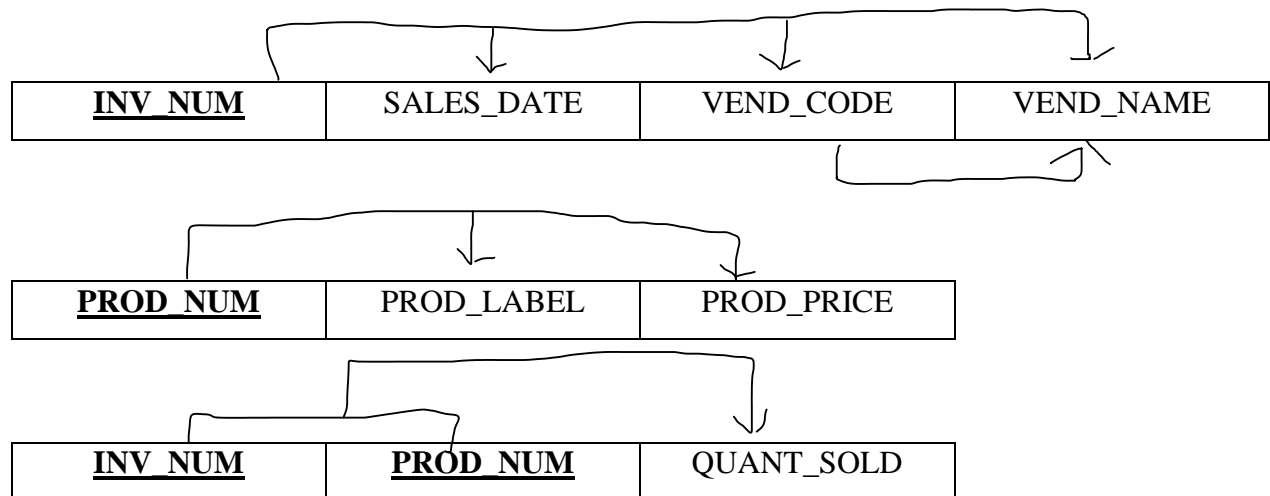
Transitive dependencies: VEND_CODE and VEND_NAME

2NF:

INVOICE (INV_NUM, SALES_DATE, VEND_CODE, VEND_NAME)

PRODUCT (PROD_NUM, PROD_LABEL, PROD_PRICE)

SALES (INV_NUM, PROD_NUM, QUANT_SOLD)



3NF:

INVOICE (INV_NUM, SALES_DATE, VEND_CODE)

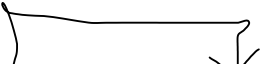
VENDOR (VEND_CODE, VEND_NAME)

PRODUCT (PROD_NUM, PROD_LABEL, PROD_PRICE)


SALES (INV_NUM, PROD_NUM, QUANT_SOLD)




<u>INV_NUM</u>	SALES_DATE	VEND_CODE
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<u>VEND_CODE</u>	VEND_NAME
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<u>PROD_NUM</u>	PROD_LABEL	PROD_PRICE
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<u>INV_NUM</u>	<u>PROD_NUM</u>	QUANT_SOLD
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