

Class Exercise – 6.1

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Clemson/Assignment ID: normal1

Submission: Save this Word document with your answers as a PDF file and upload the PDF file to Canvas.

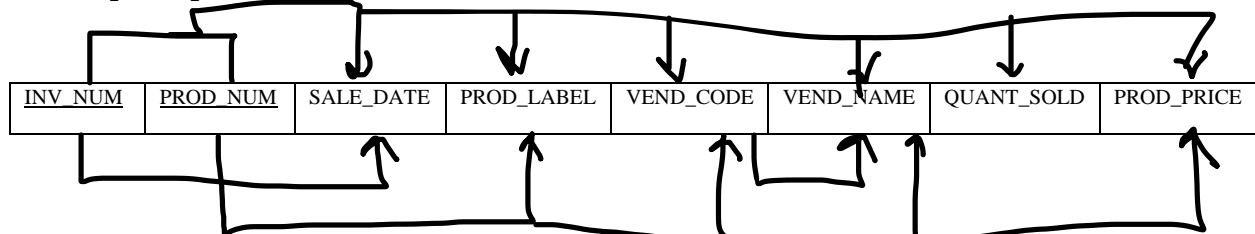
Normalization

Using the INVOICE table structure shown, answer the following questions:

INVOICE Table

Attribute Name	Sample Value	Sample Value	Sample Value	Sample Value	Sample Value
INV_NUM	211347	211347	211347	211348	211349
PROD_NUM	AA-E3422QW	QD-300932X	RU-995748G	AA-E3422QW	GH-778345P
SALE_DATE	15-Jan-2018	15-Jan-2018	15-Jan-2018	15-Jan-2018	16-Jan-2018
PROD_LABEL	Rotary sander	0.25-in. drill bit	Band saw	Rotary sander	Power drill
VEND_CODE	211	211	309	211	157
VEND_NAME	NeverFail, Inc.	NeverFail, Inc.	BeGood, Inc.	NeverFail, Inc.	ToughGo, Inc.
QUANT_SOLD	1	8	1	2	1
PROD_PRICE	\$49.95	\$3.45	\$39.99	\$49.95	\$87.75

- Write the relational schema. You can assume that the table does not contain repeating groups and that any invoice number may reference more than one product. (Hint: This table uses a composite primary key.)



- Identify any partial dependencies and generate the 2NF tables/schemas

PROD_NUM generates PROD_LABEL, PROD_PRICE, VEND_CODE, VEND_NAME

INV_NUM generates SALE_DATE

- Identify any transitive dependencies and generate the 3NF tables/schemas

VEND_CODE generates VEND_NAME

