

## Schema Creation Assignment

Name \_\_\_\_\_

In this assignment you will create a schema for a sales company. You will start with data which is in a single table.

The data has eleven tab-delimited records. These are now described.

1	The company employee's ID. (This is unique for each ID.)
2	The company employee's last name
3	The company employee's first name
4	An empty field – ignore this one.
5	A product ID (this is unique for each product.)
6	A product name (this may not be unique)
7	Price of this product
8	Company ID of purchasing company
9	Purchasing Company Name
10	Transaction ID (A transaction is the sale of only one product in any quantity. Thus this is the only candidate key for this table.)
11	Number of items purchased in this transaction.

The actual data is posted on the class web page.

There are several questions you have to answer.

What dependencies can you deduce from the description above and an examination of the data? (You may use the name the fields above if you desire, but document the naming.)

What Normal Form is this in?

Decompose this table into BCNF. What tables result? What primary and foreign keys exist? (Use the back of this sheet if needed.)

Create an ERD for this set of tables.