Scenario 1

XYZ MANUFACTURING
CUSTOMER ORDER AND PRODUCT APPLICATION

The XYZ Manufacturing company has a completely automated application system. The system, however, resides on a really old system that uses index files and does not allow for decision support at all. In order to move to ad hoc queries, and "what if" queries, the company has decided to convert the existing system to a database.

Initially, the only criterion for the application is to replace the existing system with a database system. No ad hoc screen or reports have been anticipated. You have been provided with the reports and screens that exist currently.

Customer Order and Product Application Considerations

1. Each customer must be on file before an order can be placed. The name, address(es), phone number(s), and credit limit must be recorded. All other data items are optional. If there is no shipping address, then the mailing address is used instead. Since customers can have identical names, a customer id has been assigned to each customer.

2. Each order will have a computer generated number. Currently, the order can have up to 10 line items. However, in the future this limitation is planned to be discarded. Discounts can be given to preferred customers and this discount amount will be recorded on the customer's record. Customers without a discount amount will not be given a discount.

3. Each product listed on the order will show the standard price for that product. Discounts will be shown at the bottom of the order form.

4. Orders that can be filled or partially filled are shipped immediately, and the product data is updated accordingly. Orders, or partial orders that cannot be filled will be backordered.

5. As products are manufactured the product data is updated accordingly along with the part inventory data.

6. A customer can place numerous orders. Products can be ordered by many different customers.

7. Products are made up of multiple parts and materials. The same "part" can be used in numerous products. (eg. a screw can be used in a chair, bar stool etc.)

SAMPLE REPORTS AND SCREENS – called USER VIEWS

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XYZ MANUFACTURING ORDER FORM                     DATE: AUG 30, 2003

ORDER # 9932
MR. S.D. KURTZ                  SHIPPING ADDRESS:     KURTZ HARDWARE
123 THAT STREET                                      456 NO STREET
TORONTO, ONTARIO                                     HAMILTON, ONTARIO
A9B 8C7                                              L6K 5J4


PHONE: (416) 879-0045    (416) 786-3241     CUSTOMER DISCOUNT:  3%


ITEM #  PRODUCT CODE   DESCRIPTION          QTY   BACKORDERED    FILLED  PRICE/UNIT   AMOUNT
1       FR223          HALF SIZE REFRIGERATOR 2             0         2    750.99    1501.98
2       TB101          PATIO TABLE            5             2         3    150.00     450.00
3       CH089          PATIO CHAIRS          20             0        20     35.00     700.00




                                                             TOTAL        2651.98
                                                             DISCOUNT AMT    79.56

                                                             AMOUNT OWING  2572.42
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PRODUCTS INVENTORY AS AT: AUG 30, 2002


PRODUCT CODE    DESCRIPTION              QTY ON HAND    QTY BACKORDERED      PRICE
CH089           PATIO CHAIRS                            140              0        35.00
FR223           HALF SIZE REFRIGERATOR       10                         0      750.99
TB101           PATIO TABLE                   0                         2       35.00
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                    .
                    .
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XYZ MANUFACTURING
PRODUCT EXPLOSION REPORT


PRODUCT CODE   DESCRIPTION      PART NUMB.    PART DESCRIPTION      QTY REQUIRED
CH089      PATIO CHAIRS      WOOD223       1 X 2 – 30" WOOD              8
                            SCRW110       1.25" SCREWS                 26
                              .
                              .
                              .


TB101      PATIO TABLE       WOOD995       2 X 4 – 48" WOOD             12
                            SCRW110       1.25" SCREWS                 34
                              .
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