```
______
WAREHOUSE
WhCode
WhName
                       nvarchar 10 Primary key
nvarchar 40 Cannot be empty:
                                           'Invalid warehouse name'
                                         Cannot be duplicated in WAREHOUSE:
                                           'Duplicate warehouse name'
N.B.: Cannot delete a 'WhCode' if exists in QUANTITY
       'Warehouse code in use. Deletion denied'
ITEM CATEGORY
_____
ItemCatCode nvarchar 4 Primary key
ItemCatName nvarchar 40 Cannot be empty:
                                           'Invalid item category name'
                                         Cannot be duplicated in ITEM CATEGORY:
                                           'Duplicate item category name'
N.B.: Cannot delete an 'ItemCatCode' if exists in ITEM
'Category code in use. Deletion denied'
ITEM
                        nvarchar 10 Primary key
ItemCode
ItemName
                        nvarchar 100 Cannot be empty:
                                          'Invalid item name'
                                         Cannot be duplicated in ITEM:
                                          'Duplicate item name'
ItemCatCode nvarchar 4 Cannot be empty and should exist in ITEM_CATEGORY:
                                          'Invalid item category code'
                        nvarchar 6 Cannot be empty:
ItemUnit
                                           'Invalid item unit'
N.B.: Cannot delete an 'ItemCode' if exists in QUANTITY
       'Item code in use. Deletion denied'
     Cannot delete an 'ItemCode' if exists in ORDER
       'Item code in use. Deletion denied'
CUSTOMER
CustomerCode nvarchar 10 Primary key
CustomerName nvarchar 100 Cannot be empty:
                                            'Invalid customer name'
                                         Cannot be duplicated in CUSTOMER:
                                          'Duplicate customer name'
CustomerAddress nvarchar 200 not null default ''
N.B.: Cannot delete an 'ItemCode' if exists in ORDER
      'Customer code in use. Deletion denied'
QUANTITY
              nvarchar 10 Primary key: (ItemCode, WhCode)
nvarchar 10
ItemCode
WhCode
QtyOnHand
                        decimal 10,2 not null default 0
                       nvarchar 10 not null default ''
CustomerCode
                                    Primary key: (CustomerCode, ItemCode, OrdNumber)
               nvarchar 10 not null default ''
integer not null default 0
decimal 10,2 not null default 0
decimal 10,2 not null default 0
ItemCode
OrdNumber
QtyOrdered
QtyDelivered
ORDER HEADER
_____
                integer

Primary key

For each new sales order increment MAX(OrdNumber) by 1

date

not null

nvarchar 10 Cannot be empty and should exist in CUSTOMER:
OrdNumber
OrdDate
CustomerCode
                                           'Invalid customer code'
ORDER DETAILS
_____
OrdNumber
                        integer Should exist in ORDER HEADER
```

```
Find {ORDER HEADER.CustomerCode,ItemCode,OrdNumber) in ORDER.
        Insert a new row if it does not already exist. In all cases make an update
        in ORDER set QtyOrdered=QtyOrdered+ItemQuantity
     2- For each deleted row:
        Find {ORDER HEADER.CustomerCode,ItemCode,OrdNumber) in ORDER.
        Make the following update set QtyOrdered-QtyOrdered-ItemQuantity
INVOICE HEADER
InvNumber
                         integer
                                        Primary key
                                         For each new invoice increment MAX(InvNumber) by 1
                         date
                        date not null nvarchar 10 Cannot be empty and should exist in CUSTOMER:
InvDate
CustomerCode
                                         'Invalid customer code'
                      nvarchar 10 Cannot be empty and should exist in WAREHOUSE:
WhCode
                                         'Invalid warehouse code'
                       integer not null default o
OrdNumber
INVOICE DETAILS
                         integer
InvNumber
                                        Should exist in INVOICE HEADER
                         nvarchar 10 Cannot be empty and should exist in ITEM:
ItemCode
                                          'Invalid item code'
                        decimal 10,2 not null default 0
ItemQuantity
ItemPrice
                         decimal 15,2 not null default 0
N.B.: 1- For each inserted row:
        1.1- Find {INVOICE HEADER.CustomerCode,ItemCode,INVOICE HEADER.OrdNumber) in ORDER.
             If a corresponding row was not found
                'invalid sales order number
             If a row was found
                make the following update set QtyDelivered=QtyDelivered+ItemQuantity
        1.2- Find (ItemCode, INVOICE HEADER.WhCode) in QUANTITY.
             Insert a new row if it does not already exist. In all cases make an update
             set QtyOnHand=QtyOnHand-ItemQuantity
     2- For each deleted row:
        2.1- Find {INVOICE HEADER.CustomerCode,ItemCode,INVOICE HEADER.OrdNumber) in ORDER.
             Make the following update set QtyDelivered=QtyDelivered-ItemQuantity
        2.2- Find (ItemCode, INVOICE HEADER. WhCode) in QUANTITY.
```

Make the following update set QtyOnHand=QtyOnHand+ItemQuantity

decimal 10,2 not null default 0 decimal 15,2 not null default 0

nvarchar 10 Cannot be empty and should exist in ITEM: 'Invalid item code'

ItemCode

ItemQuantity ItemPrice

N.B.: 1- For each inserted row: