

# How-to:

SKU .

```
1 REQUIRE  
2   Utils;  
3 CLASS  
4   SKU 'SKU'  
5   U';  
6 CLASS  
7   Stock ''  
8   ;
```

SKULedger, SKU ( ).  
SKU .

```
1 CLASS ABSTRACT SKULedger '' ;  
2  
3 posted '' = ABSTRACT BOOLEAN  
4   (SKULedger);  
5 dateTime '/' = ABSTRACT DATETIME  
6   (SKULedger);  
7  
8 sku 'SKU' = ABSTRACT SKU  
9   (SKULedger);  
10 stock '' = ABSTRACT Stock  
11   (SKULedger);  
12  
13 quantity '-' = ABSTRACT NUMERIC[  
14   14,2] (SKULedger);  
15  
16 balance '' = GROUP SUM quantity  
17   (SKULedger l) IF posted(l) BY  
18   stock(l), sku(l);  
19  
20 balance '/' = GROUP SUM  
21   quantity(SKULedger l) IF posted  
22   (l) AND dateTime(l) <= DATETIME  
23   dt BY stock(l), sku(l),  
24   dateTime(l);
```

SKULedger . . . . .

```

1  CLASS Receipt ' ';
2  posted ' ' = DATA BOOLEAN
3  (Receipt);
4  dateTime '/' = DATA DATETIME (Receipt);
5
6  CLASS ReceiptDetail ' ';
7  ;
8  receipt ' ' = DATA
9  Receipt (ReceiptDetail) NONULL DELETE;
10
11 sku 'SKU' = DATA SKU
12 (ReceiptDetail);
13
14 quantity '-' = DATA NUMERIC[14,2] (ReceiptDetail);
15 price ' ' = DATA NUMERIC[14,2] (ReceiptDetail);

```

, "" , SKULedger ReceiptDetail. .

```

1  EXTEND CLASS ReceiptDetail : SKULedger;
2
3  // [SKULedger], ReceiptDetail PriceLedger ,
4  posted[SKULedger](ReceiptDetail d) += posted(receipt(d));
5  dateTime[SKULedger](ReceiptDetail d) += dateTime(receipt(d));
6
7  stock[SKULedger](ReceiptDetail d) += stock(receipt(d));
8
9  sku[SKULedger](ReceiptDetail d) += sku(d);
10 quantity[SKULedger](ReceiptDetail d) += quantity(d);

```

```

1  CLASS Transfer ' ';
2  posted ' ' = DATA BOOLEAN
3  (Transfer);
4  dateTime '/' = DATA DATETIME
5  (Transfer);
6
7  fromStock '()' = DATA
8  Stock (Transfer);
9  toStock '()' = DATA Stock
10 (Transfer);
11
12 CLASS TransferDetail ' ';
13 transfer ' ' = DATA
14 Transfer (TransferDetail) NONULL DELETE;
15
16 sku 'SKU' = DATA SKU
17 (TransferDetail);
18
19 quantity '-' = DATA NUMERIC[14,2] (TransferDetail);
20 price ' ' = DATA NUMERIC[14,2] (TransferDetail);

```

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```
1 EXTEND CLASS TransferDetail : SKULedger;
2
3 posted(TransferDetail d) += posted(transfer(d));
4 dateTime(TransferDetail d) += dateTime(transfer(d));
5
6 stock(TransferDetail d) += fromStock(transfer(d));
7
8 sku(TransferDetail d) += sku(d);
9 quantity(TransferDetail d) += -quantity(d);
```

```
, . , "" .
```

```
1 CLASS TransferSKULedger ' ' : SKULedger;
2 transferSKULedger = AGGR TransferSKULedger WHERE posted(TransferDetail
3 transferDetail);
4
5 posted(TransferSKULedger d) += d IS TransferSKULedger;
6 dateTime(TransferSKULedger d) += dateTime(transfer(transferDetail(d)));
7
8 stock(TransferSKULedger d) += toStock(transfer(transferDetail(d)));
9
10 sku(TransferSKULedger d) += sku(transferDetail(d));
    quantity(TransferSKULedger d) += quantity(transferDetail(d));
```

```
, ., posted TRUE.
```

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, . , , .
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. , .
```

**PriceLedger,** SKU .

```

CLASS ABSTRACT
PriceLedger ' ' ;

posted '' = ABSTRACT BOOLEAN (PriceLedger);
dateTime '/' = ABSTRACT DATETIME (PriceLedger);

sku 'SKU' = ABSTRACT SKU
(PriceLedger);
stock '' = ABSTRACT
Stock (PriceLedger);
1
2
3 price '' = ABSTRACT NUMERIC[14,2] (PriceLedger);
4
5 price '' (Stock stock,
6 SKU sku, DATETIME
7 dateTime) =
8     GROUP LAST price
9 (PriceLedger l)
10     ORDER dateTime
11 (l), l
12     WHERE posted
13 (l) AND dateTime(l) <=
14 dateTime
15     BY stock(l),
16 sku(l);
17
18 price '' (Stock stock,
19 SKU sku) =
20     GROUP LAST price
21 (PriceLedger l)
22     ORDER dateTime
23 (l), l
24     WHERE posted
25 (l)
26     BY stock(l),
27 sku(l);

price '' (SKU sku, DATETIME dateTime) =
    GROUP LAST price
(PriceLedger l)
    ORDER dateTime
(l), l
    WHERE posted
(l) AND dateTime(l) <=
dateTime
    BY sku(l);

```

, SKU /, , SKU .

```

1 EXTEND CLASS ReceiptDetail : PriceLedger;
2
3 // [PriceLedger], ReceiptDetail SKULedger ,
4 posted[PriceLedger](ReceiptDetail d) += posted(receipt(d));
5 dateTime[PriceLedger](ReceiptDetail d) += dateTime(receipt(d));
6
7 stock[PriceLedger](ReceiptDetail d) += stock(receipt(d));
8
9 sku[PriceLedger](ReceiptDetail d) += sku(d);
10 price[PriceLedger](ReceiptDetail d) += price(d);

```

, , ( SKULedger).