Working with Variables and Constants

László Mészáros www.expertise-team.com/explore @sapbwmentor





Old-style Coding



Importance of Readability



Business Problems

Discount Amount = Sales Amount × Discount %

Business Problems

Discount Amount = Sales Amount × Discount %





Discount %

Month of sales	Booktype	%

Discount %

Month of sales	Booktype	%
September	Travel	15
January	Children	30
July	Webdesign	5

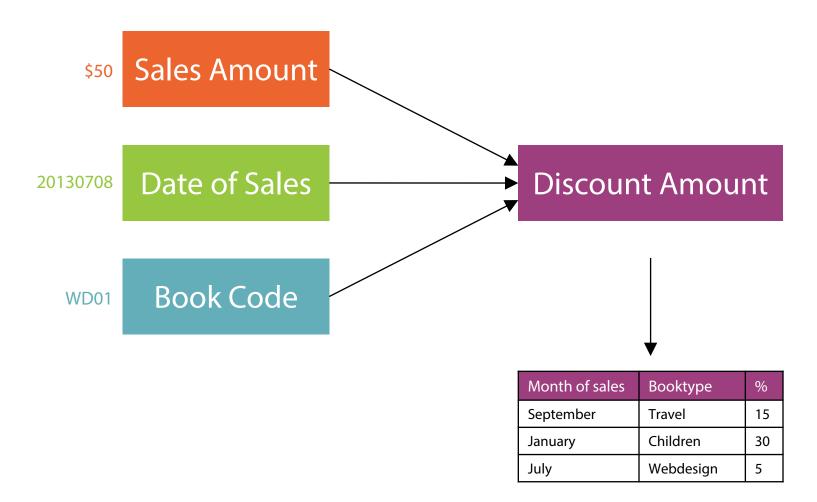
Discount %

Month of sales	Booktype	%
September	Travel	15
January	Children	30
July	Webdesign	5

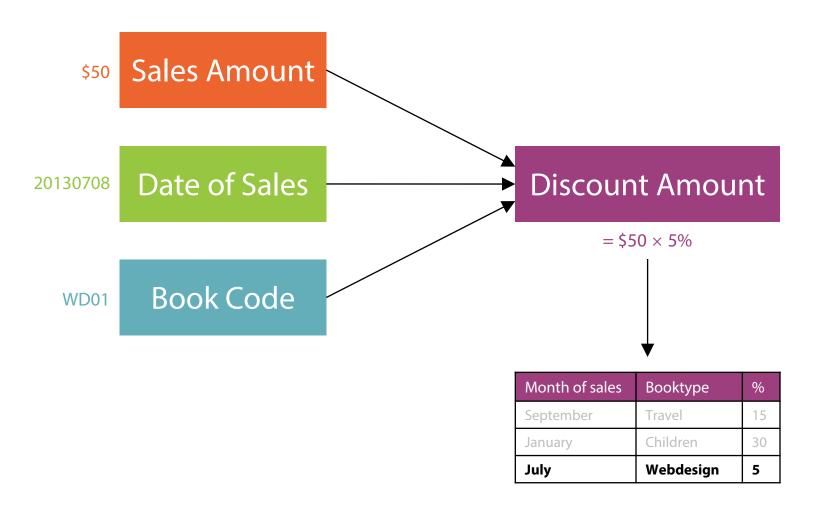
Month of Sales

VIDEO!

Business Example



Business Example



Easiest Solution = Best Practices

Easiest Solution ≠ **Best Practices**

Easiest Solution = Best Practices

Booktype
Month of Sale
Discount %

ABAP Variables

Declaration Methods

Predefined Types

Custom Types

Infoobjects

Predefined Types

Predefined Numeric Types

Data Type	Description	Example
I	Integer	5
F	Floating Point Number	0,54 × 10 ⁵
Р	Packed Number	12,54

Predefined Character Types

Data Type	Description	Example
C	Text Field	'webdesign'
D	Date Field	'20130721' YYYYMMDD
Т	Time field	'154223' HHMMSS

Custom Types

Infoobject Type

Standard

/BIO/OICALMONTH

Custom

/BIC/OIZBOOKTYPE

DATA booktype TYPE /BIC/OIZBOOKTYPE.

Infoobject Type

Standard

/BI0/OI<mark>CALMONTH</mark>

Custom

/BIC/OIZBOOKTYPE

DATA booktype TYPE /BIC/OIZBOOKTYPE.

Benefits

Naming Concept

Meaningful Variable Names

Higher Readibility

Declaration Method

Infoobject Type

Centralization

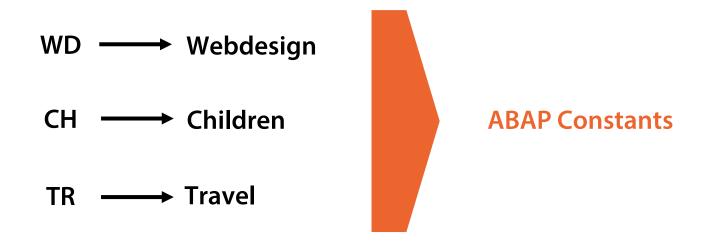
Benefits

Lower Maintenance Costs

Higher Readibility

Centralization

Book types



Webdesign = 'WD'

CONSTANTS Webdesign TYPE c LENGTH 2 VALUE 'WD'

CONSTANTS Webdesign TYPE c LENGTH 2 VALUE 'WD'

Benefits

ABAP Constants

Higher Readability

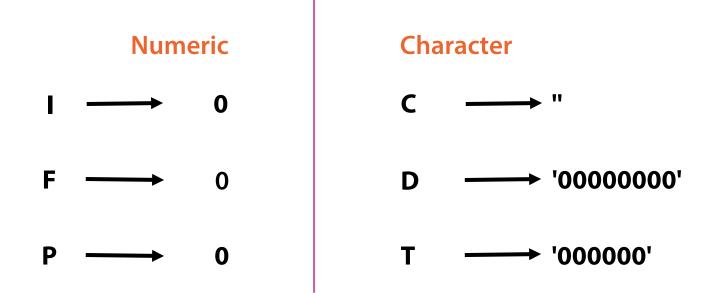
Centralization

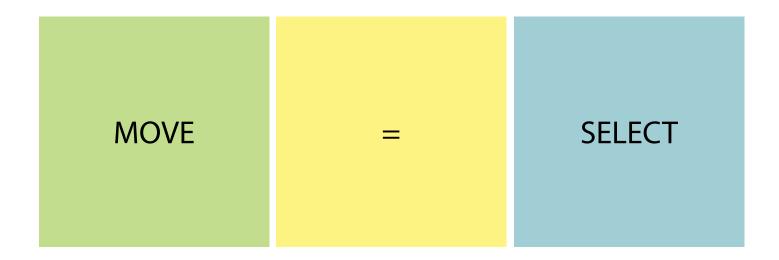
Lower Maintenance Costs

Calculation

Discount = Sales Amount x Discount %

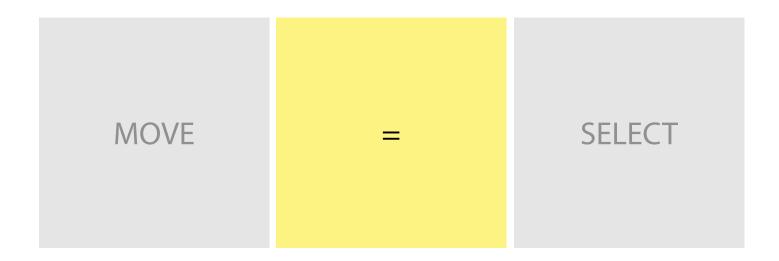
Initial Value of Variables



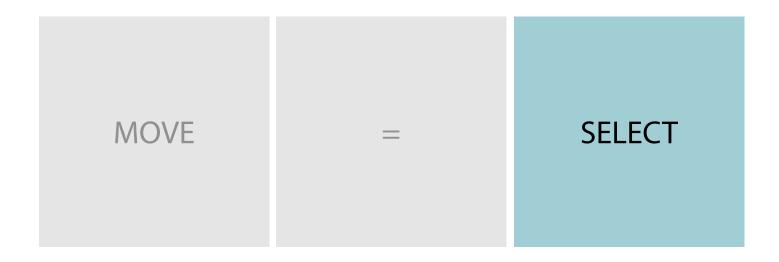




MOVE source_fields-amount **TO** sales_amount.



result = sales_amount x discount_percentage.



```
SELECT /bic/zbooktype
INTO booktype
FROM /bic/mbook
WHERE /bic/zbook = book_code
AND objvers = active.
```

Summary



Summary

