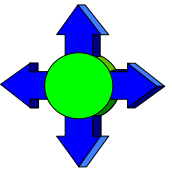


Inside Module 8

Extracting Data

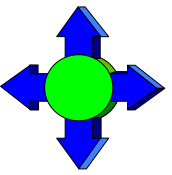
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- \$-functions 4
- Extract from a table 7



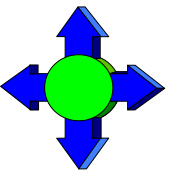
Extract basics

- Extract command “extracts” the data from the input source
- Fields are “placed” in the output file in order of the extract commands
- Extract a range of fields
- Extracting constants



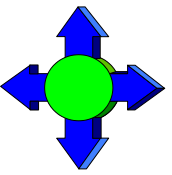
Coercion and Numeric Expressions

- Extract also coerces data from the source to the target
- Changes from one data type to another
 - Define display-field,1,8,display
 - Extract display-field = double-field
- Simple Arithmetic functions
 - Extract total = cost * qty
 - Extract budget99 = actual98 + 1000
 - Extract profit = sales-amt – cost
 - Extract average = total / qty
 - Extract day = ccyymmdd-date mod 100



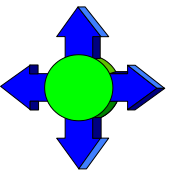
Date \$- functions

- \$date
 - specify constant or relative date value in various formats
- \$today
 - current system date or calculate a date relative to the system date
- \$stddate
 - converts a date in any format to CCYYMMDD
- \$days
 - converts the date into a Julian format



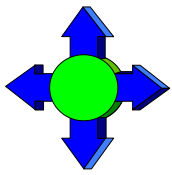
String \$- functions

- `$upper`
 - converts all alphabetic characters to uppercase
- `$lower`
 - converts all alphabetic characters to lowercase
- `$trim`
 - removes leading and trailing spaces
- `$ltrim`
 - removes leading spaces
- `$rtrim`
 - removes trailing spaces



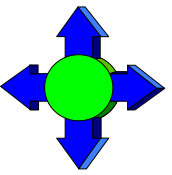
Numeric \$- functions

- \$abs
 - Returns absolute value of a number
- \$truncate
 - Returns a number to the left of the decimal place



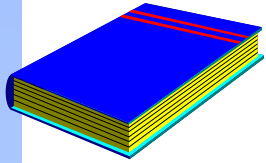
Extract from a table

- \$lookup available in Extract but slightly different
 - Must load the table with data
 - Table mytable,key,file,sdfilename,data(tabledata)
 - File must be self-describing
 - Extract field = \$lookup(mytable,key,tabledata)

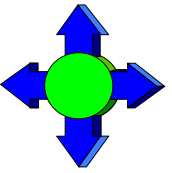


Extract from a Table Sample

```
>table newprices,prodno,file,bosslist,data(price,desc)
>get part-master
>if $lookup(newprices,prodno)
>update
>extract price = $lookup(newprices,prodno,price)
>extract desc = $lookup(newprices,prodno,desc)
>xeq
```

Summary



- Extract command
- Extract with coercion
- Numeric Expressions
- Extract with \$-functions
- Date functions
- String functions
- Numeric functions
- Extract from a table