

# *Inside Module 8*

## **Extracting Data**

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# *Extract basics*

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- 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 = ccymmd-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*

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

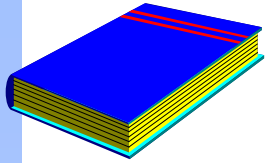
## *Extract from a table*

- \$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*

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