

Crystal Reports Functions

Training on databases is provided in the following areas:

- **Relational Databases**
- **Personal Databases**
- **Enterprise Databases**
- **Crystal Reports**
- **DB2 UDB**
- **Oracle Database**
- **SQL Server**
- **Sybase**

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TM

Mathematical Functions
Abs (x)
Sgn (number)
Int (number)
Round (x), Round (x, #places)
Truncate (x), Truncate (x, #places)
Fix
Remainder (num, denom)
Sin (number)
Cos (number)
Tan (number)
Atn (number)
Pi
Sqr (number)
Exp (number)
Log (number)
Rnd

Summary Functions
Sum (fld), Sum (fld, fld), Sum (fld, condFld), Sum (fld, condFld, cond), Sum (x)
SummaryFunction (fld)
SummaryFunction (fld, condFld)
SummaryFunction (fld, condFld, cond)
Average (fld), Average (fld, condFld), Average (fld, condFld, cond), Average (x)
StdDev (fld), StdDev (fld, condFld), StdDev (fld, condFld, cond), StdDev (x)
PopulationStdDev (fld), PopulationStdDev (fld, condFld), PopulationStdDev (fld, condFld, cond), PopulationStdDev (x)
Variance (fld), Variance (fld, condFld), Variance (fld, condFld, cond), Variance (x)
PopulationVariance (fld), PopulationVariance (fld, condFld), PopulationVariance (fld, condFld, cond), PopulationVariance (x)
Maximum (fld), Maximum (fld, condFld), Maximum (fld, condFld, cond), Maximum (x)
Minimum (fld), Minimum (fld, condFld), Minimum (fld, condFld, cond), Minimum (x)
Count (fld), Count (fld, condFld), Count (fld, condFld, cond), Count (x)
DistinctCount (fld), DistinctCount (fld, condFld), DistinctCount (fld, condFld, cond), DistinctCount (x)
Correlation (fld, fld), Correlation (fld, fld, condFld), Correlation (fld, fld, condFld, cond)
Covariance (fld, fld), Covariance (fld, fld, condFld), Covariance (fld, fld, condFld, cond)
WeightedAverage (fld, fld), WeightedAverage (fld, fld, condFld), WeightedAverage (fld, fld, condFld, cond)
Median (fld), Median (fld, condFld), Median (fld, condFld, cond)
PthPercentile (P, fld), PthPercentile (P, fld, condFld), PthPercentile (P, fld, condFld, cond)
NthSmallest (N, fld), NthSmallest (N, fld, condFld), NthSmallest (N, fld, condFld, cond)
Mode (fld), Mode (fld, condFld), Mode (fld, condFld, cond)
NthMostFrequent (N, fld), NthMostFrequent (N, fld, condFld), NthMostFrequent (N, fld, condFld, cond)
PercentOfSum
PercentOfAverage
PercentOfMaximum
PercentOfMinimum
PercentOfCount
PercentOfDistinctCount



Financial Functions
DDB
FV
Ipmt
IRR
MIRR (values, financeRate, reinvestRate)
Nper
NPV (rate, values)
Pmt
PPmt
PV
Rate
SLN (cost, salvage, life)
SYD (cost, salvage, life, period)

String Functions
Len (str)
Length (str)
Trim (str)
LTrim (str)
TrimLeft (str)
RTrim (str)
TrimRight (str)
UCase (str)
UpperCase (str)
LCase (str)
LowerCase (str)
StrReverse (inputString)
IsNumeric (str)
NumericText (str)
ToNumber (numeric), ToNumber (string), ToNumber (Boolean)
ToText
ToWords (x), ToWords (x, #places)
ReplicateString (str, #copies)
Space (x)
InStr (str1, str2), InStr (start, str1, str2)
InStrRev
StrCmp (str1, str2), StrCmp (str1, str2, compare)
Mid (str, start), Mid (str, start, length)
Left (str, length)
Right (str, length)
Val (str)
Chr (x)
Asc (str)
Filter
Replace
Join
Split

Date/Time Functions
CurrentDate
CurrentTime
CurrentDateTime
Date
Time
DateTime
DateValue
TimeValue
DateTimeValue
DateSerial (year, month, day)
TimeSerial (hour, minute, second)
IsDateTime
IsTime
IsDate
Year (x)
Month (x)
Day (x)
WeekDay
DayOfWeek
Hour (x)
Minute (x)
Second (x)
MonthName
WeekdayName
Timer ()
DateAdd (intervalType, nIntervals, startDateTime)
DateDiff
DatePart
First Day of Week/Year constants
DateTo2000 (Date, Number)
DTSTo2000 (DateString, Number)
DTSToDate (DateTimeString)
DTSToSeconds (DateTimeString)
DTSToTimeString (DateTimeString)

Date Range Functions
WeekToDateFromSun
MonthToDate
YearToDate
Last7Days
Last4WeeksToSun
LastFullWeek
LastFullMonth
AllDatesToToday
AllDatesToYesterday
AllDatesFromToday
AllDatesFromTomorrow
Aged0To30Days, Aged31To60Days, Aged61To90Days
Over90Days
Next30Days, Next31To60Days, Next61To90Days, Next91To365Days
Calendar1stQtr, Calendar2ndQtr, Calendar3rdQtr, Calendar4thQtr
Calendar1stHalf, Calendar2ndHalf
LastYearMTD
LastYearYTD



Arrays Functions
Array (x,...)
MakeArray (x, ...)
UBound (array)
Array summary functions (x)
SummaryFunction (x)

Type Conversion Functions
CBool (number or currency)
Ccur
Cdbl
CStr
Cdate
Ctime
CdateTime

Programming Shortcut Functions
Choose (index, choice1, choice2, ..., choiceN)
IIF (expression, truePart, falsePart)
Switch (expr1, value1, expr2, value2, ..., exprN, valueN)

Evaluation Time Functions
BeforeReadingRecords
WhileReadingRecords
WhilePrintingRecords
EvaluateAfter (x)

Print State Functions
Previous (fld)
PreviousValue (fld)
Next (fld)
NextValue (fld)
IsNull (fld)
PreviousIsNull (fld)
NextIsNull (fld)
PageNumber
TotalPageCount
PageNofM
RecordNumber
GroupNumber
RecordSelection
GroupSelection
InRepeatedGroupHeader
OnFirstRecord
OnLastRecord

Document Properties Functions
PrintDate
PrintTime
ModificationDate
ModificationTime
DataDate
DataTime
ReportTitle
ReportComments
Filename
FileAuthor
FileCreationDate

Alerts Functions
IsAlertEnabled(alertName)
IsAlertTriggered(alertName)
AlertMessage(alertName)