

AMORTIZECASHFLOWS

Updated: 31 Mar 2016

Use **AMORTIZECASHFLOWS** to generate a schedule showing the discounted cash flow value of a series of cash flows at each cash flow date. **AMORTIZECASHFLOWS** automatically calculates the Internal Rate of Return (IRR) for the cash flows. It will return the discounted cash flow value as at each date, using the IRR, for all cash flows greater than cash flow date for that row.

Syntax

```
Public Shared Function AMORTIZECASHFLOWS(  
    ByVal CashFlows_RangeQuery As String,)
```

Arguments

CashFlows_RangeQuery

a SELECT statement, as a string, which will return the cash-flow amounts and cash-flow dates to be used in the function. *CashFlows_RangeQuery* is an expression that returns a **String**, or of a type that can be implicitly converted to **String**.

Return Type

FinancialTypes.AMORTIZECASHFLOWS_table

```
Class AMORTIZECASHFLOWS_table
```

```
Inherits Data.DataTable
```

```
Property Item(RowIndex As Integer) As FinancialTypes.OutputRow_AMORTIZECASHFLOWS
```

```
Class OutputRow_AMORTIZECASHFLOWS
```

```
Public num_pmt As Integer
```

```
Public date_pmt As Date
```

```
Public pv_begin As Double
```

```
Public amt_cashflow As Double
```

```
Public pv_end As Double
```

```
End Class
```

Column	Description
num_pmt	the number of the payment in ascending date order
date_pmt	the date of the payment
pv_begin	the present value at the beginning of the period
amt_cashflow	pv_begin – pv_end
pv_end	the present value at the end of the period

Remarks

- **num_pmt** is calculated in date order.
- If the internal rate of return cannot be calculated, no rows are returned.

- The time component of the date values are ignored.
- Only 1 row is returned for each date. Multiple cash flows for the same date are summed into **amt_cashflow**
- **pv_begin** is the **pv_end** from the previous row; i.e. the row where **num_pmt** is 1 less than the current row.
- **pv_end** is the discounted cash flow value of all the cash flows having a cash flow date greater than the current row. The cash flows are discounted to **date_pmt**.

See Also

- IRR - Internal rate of return
- MIRR - Modified internal rate of return
- XIRR - Internal rate of return with non-periodic cash flows
- XIRR30360 - Internal rate of return for irregular cash flows using a 30/360 day-count convention
- XIRRT - Internal rate of return for cash flows discounted using XNPVT
- XMIRR - Modified internal rate of return with non-periodic cash flows