



Essbase Calculation Script Case Study

“Calculating the Tax Inclusive Amount for income and expense”

The document contents some of the basic example for Essbase calculation script. The document assists Essbase beginners and learners to understand the Essbase calculation concepts with some basic Financial Ratio Analysis examples. We have prepared 5000+ examples of each category to master in Essbase calculation. Join our professional training program “**Mastering in Essbase Calc Script**” to learn from the Experts.

History:

Version	Description Change	Author	Publish Date
0.1	Initial Draft	Saurabh Parashar	27 th -Nov-2011
0.1	1 st Review	Amit Sharma	27 th -Nov-2011

Prepare test sheet for calculating Income-

Formula to Calculate Income -

$$\text{Tax Inclusive Amount} = \text{Exclusive Amount} + \text{Tax Amount}$$

```
Script
//ESS_LOCALE English_UnitedStates.Latin1@Binary
FIX("New York",Jan,"100-10",@ICHILDREN(Fin_Element))
"Tax Inclusive Amount"(IF(@ISUDA(Currency,"Default Currency") AND (@ISMBR(ICP_ASIA)
AND @ISCHILD(Expense)))
"Tax Inclusive Amount"="Exclusive Amount"+"Tax Amount";
ENDIF)
ENDFIX
```

Essbase Calc Script -

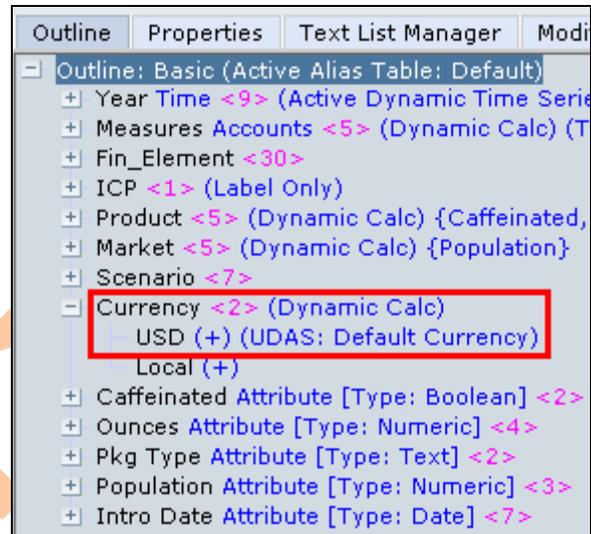
Functions - We are using **@CHILDREN**, **@ISUDA**, **@ISMBR** and **@ISCHILD** functions in our current example.

@CHILDREN(Fin_Element) - Returns all children of Fin_Element.

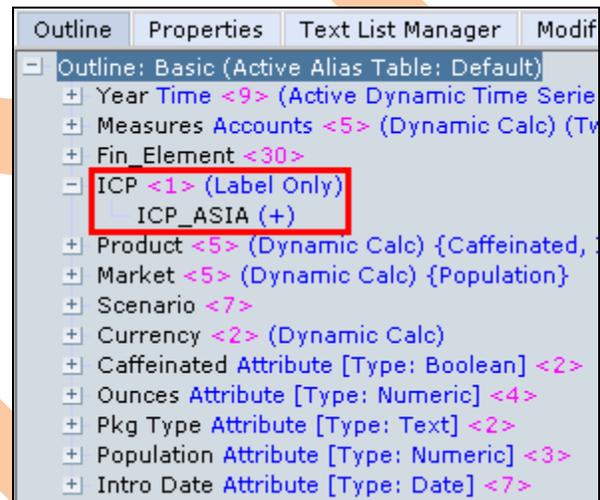


@ISUDA(Currency, "Default Currency") -

Returns TRUE if Default Currency exists for the current member Currency at the time of the calculation.



@ISMBR(ICP_ASIA) - Returns TRUE if the ICP_ASIA is available.



@ISCHILD(EXPENSE) - Returns TRUE for Exclusive Amount, Tax Amount and Tax inclusive Amount.



We need to open MS-Excel to prepare test sheet for calculation-

The below screen shows the requirement which you want to perform (Calculate *Income*) in Oracle Hyperion Essbase through Calculation Script. We give some values in our Essbase cube showing in subsequent Excel sheet. Lock and send after doing this and then execute calculation script in calculation script editor.

Purpose of calculation – We are computing *Income*.. Now double click on any cell or **Add-**

					Actual			
					Exclusive Amount	Tax Amount	Tax Inclusive Amount	
USD	New York	100-10	Jan	ICP_ASIA	Consulting Services	7,017.54	982.46	#Missing
					Opening Bank Balance	13,157.89	1,842.11	#Missing
					Commission	3,400.00	1,252.63	#Missing
					Accounting Services	900.00	2,087.72	#Missing
					Taxation Services	100.00	528.07	#Missing
					Discount	200.00	2,139.30	#Missing
					Loan Deposit	11,200.00	368.42	#Missing
					Fin_Element	#Missing	#Missing	#Missing

Essbase → Retrieve to get desired result.

					Actual			
					Exclusive Amount	Tax Amount	Tax Inclusive Amount	
USD	New York	100-10	Jan	ICP_ASIA	Consulting Services	7,017.54	982.46	8000
					Opening Bank Balance	13,157.89	1,842.11	15000
					Commission	3,400.00	1,252.63	4652.63
					Accounting Services	900.00	2,087.72	2987.72
					Taxation Services	100.00	528.07	628.07
					Discount	200.00	2,139.30	2339.3
					Loan Deposit	11,200.00	368.42	11568.42
					Fin_Element	8,947.37	1,010.70	45176.14

2 Prepare test sheet for calculating Expense-

Formula to Calculate Expense -

$$\text{Tax Inclusive Amount} = \text{Exclusive Amount} + \text{Tax Amount}$$

Essbase Calc Script -

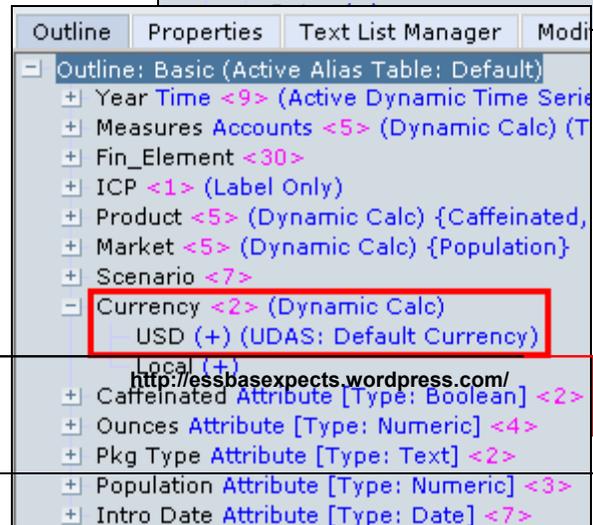
```
Script
//ESS_LOCALE English_UnitedStates.Latin1@Binary
FIX("New York",Jan,"100-10",@ICHILDREN(Fin_Element))
"Tax Inclusive Amount"(IF(@ISUDA(Currency,"Default Currency") AND (@ISMBR(ICP_ASIA)
AND @ISCHILD(Expense)))
"Tax Inclusive Amount"="Exclusive Amount"+"Tax Amount";
ENDIF)
ENDFIX
```

Functions - We are using @CHILDREN, @ISUDA, @ISMBR and @ISCHILD functions in our current example.

@CHILDREN(Fin_Element) - Returns all children of Fin_Element.

@ISUDA(Currency, "Default Currency") -

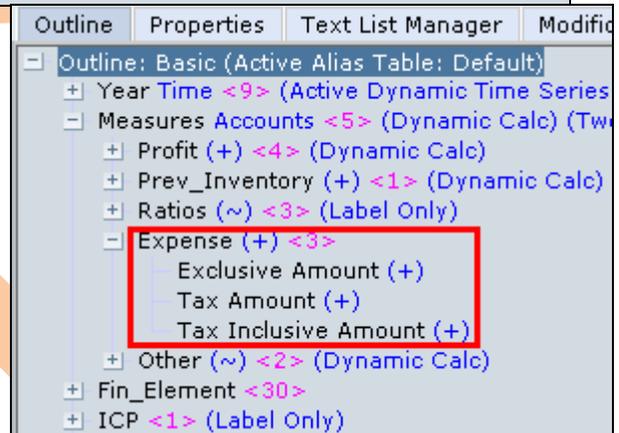
Returns TRUE if Default Currency exists for the current member Currency at the time of the calculation.



@ISMBR(ICP_ASIA) - Returns TRUE if the ICP_ASIA is available.



@ISCHILD(EXPENSE) - Returns TRUE for Exclusive Amount, Tax Amount and Tax inclusive Amount.



We need to open MS-Excel to prepare test sheet for calculation-

The below screen shows the requirement which you want to perform (Calculate *Expense*) in Oracle Hyperion Essbase through Calculation Script. We give some values in our Essbase cube showing in subsequent Excel sheet. Lock and send after doing this and then execute calculation script in calculation script editor.

					Actual			
					Exclusive Amount	Tax Amount	Tax Inclusive Amount	
USD	New York	100-10	Jan	ICP_ASIA	Opening Balance	4,473.68	626.32	#Missing
					Internet Service Provider	157.02	21.98	#Missing
					Subscriptions	419.30	58.70	#Missing
					Insurance	298.25	41.75	#Missing
					Service Fees	43.86	6.14	#Missing
					Bookkeeping	30.70	4.30	#Missing
					Flowers	877.19	122.81	#Missing
					Parking	78.95	11.05	#Missing
					Salaries	175.44	24.56	#Missing
					Rent	1,500.00	626.32	#Missing
					Petty Cash Reimbursement	15,000.00	21.98	#Missing
					Sales Tax	13,000.00	58.70	#Missing
					Furniture	220.00	41.75	#Missing
					Capital repayment	100.00	6.14	#Missing
					Interest paid	5,614.04	4.30	#Missing
					Consumables	100.00	122.81	#Missing
					Course	100.00	11.05	#Missing
					Accommodation	157.02	24.56	#Missing
					Stationery	298.25	626.32	#Missing
					Inter Account Transfer	76.32	21.98	#Missing
					Rates	70.18	58.70	#Missing
					Legal advice	30.70	41.75	#Missing
					Fin_Element	#Missing	#Missing	#Missing

Purpose of calculation – We are computing *Income*.. Now double click on any cell or **Add-Ins**→**Essbase**→**Retrieve** to get desired result.

					Actual			
					Exclusive Amount	Tax Amount	Tax Inclusive Amount	
USD	New York	100-10	Jan	ICP_ASIA	Opening Balance	4,473.68	626.32	5100
					Internet Service Provider	157.02	21.98	179
					Subscriptions	419.30	58.70	478
					Insurance	298.25	41.75	340
					Service Fees	43.86	6.14	50
					Bookkeeping	30.70	4.30	35
					Flowers	877.19	122.81	1000
					Parking	78.95	11.05	90
					Salaries	175.44	24.56	200
					Rent	1,500.00	626.32	2126.32
					Petty Cash Reimbursement	15,000.00	21.98	15021.98
					Sales Tax	13,000.00	58.70	13058.7
					Furniture	220.00	41.75	261.75
					Capital repayment	100.00	6.14	106.14
					Interest paid	5,614.04	4.30	5618.34
					Consumables	100.00	122.81	222.81
					Course	100.00	11.05	111.05
					Accommodation	157.02	24.56	181.58
					Stationery	298.25	626.32	924.57
					Inter Account Transfer	76.32	21.98	98.3
					Rates	70.18	58.70	128.88
					Legal advice	30.70	41.75	72.45
					Fin Element	42,820.90	2,583.97	45404.87