

## Software Requirement Specification: SAC Planning Advance

# A Global Company

Created By: **Anubhav Oberoy**

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### The Business Story

Stefany's company is planning for expansion of the business based on potentials in different regions. A company's potential for growth is dependent on its ability to keep its gross margin % high with high operating profit %. However, it is always important to keep watch on operating expense ratio. These are the key drivers for the growth also considered as main KPIs for operations.

In this document Stefany has to see, how to work with SAC planning capabilities to calculate KPIs, Apply formula's at the model level, Creating Allocation Rules To Same Dimension and Using Formulas, Allocate Marketing Expenses based on FTE, allocate operating expense to the product level based on the previous year's sales, Add Steps in allocation rules and filters, Formula Lookups, Conditional Logic and Exception Aggregation for Sales Volume Scenario. We will also learn Advanced Formulas using dynamic Time and conditional Logic for YTD FTE Scenario.

Finally, she will create value driver tree and data actions in the planning. This will conclude the all the key planning features of SAP analytics cloud. Covering almost all the options/features available for planning in SAC and their functional use cases.

### Requirement 1: Create a simple Operating Income sheet

- Create Report for current financials of the co. considering Operating income
- Display the hidden values of unbooked data like KPIs (Gross Margin, Gross Profit and Expense Ratio)
- Learn how can we add excel like formula's directly for Gross Margin %
- Use below formulas to calculate the values at model level
- Also add variance between Actual v/s Forecast value as a new column (calculated using excel like)

Gross Margin %(KPI01) = Gross Profit (H105000) / Net Revenue (H110000)

Operating Profit %(KPI02) = Operating Income (H105000) / Net Revenue (H110000)

Operating Expense Ratio %(KPI03) = Operating Expenses (H105000) / Net Revenue (H110000)

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Page Name	KPI Calculations
Data Source	AnubhavPlanningModel
Responsive Fixed Layout	Yes
Rows	Account ( <b>Operating Income, Key Performance Indicators</b> )
Columns	VERSION (Actual & Forecast)
Filters	NA
Enable Explorer	No

Planning Financial Plan Anubhav			
ACCOUNT	VERSION	Actual	Forecast
Operating Income		538.66 M	1,126.26 M
Gross Profit		4,234.73 M	5,829.89 M
Net Revenue		8,331.47 M	11,217.03 M
Cost of Goods Sold		4,096.74 M	5,387.14 M
Operating Expenses		3,696.08 M	4,703.63 M
Sales and Marketing		301.37 M	386.57 M
Personnel Costs		1,782.03 M	2,210.28 M
IT Expenses		335.82 Million	443.14 Million
Other Expenses		1,276.85 Million	1,663.63 Million
Key Performance Indicators		-	-
Gross Margin %		50.8 %	52.0 %
Operating Profit %		6.5 %	10.0 %
Operating Exp Ratio		44.4 %	41.9 %
Gross Margin%		50.83%	

## Requirement 2: Allocate Marketing Expenses to the regions of USA based on FTE

Company had recently planned for expansions in the other regions of USA. We have hired the colleagues and now they need to start product marketing, we have meeting with marketing heads of each region. We want to allocate budget for marketing expenses based on number of hires (FTE) in each region. This type of requirement is called Allocations.

- Create New version from Actuals called **Alloc\_FTE**
- Expand and observe that Marketing Expenses except northeast region for USA is not allocated
- Show unbooked data of USA Regions
- Create new Process→Allocation Step
- Define Step the Rule in the step

This is how our planning Report looks like

<b>Page Name</b>	<b>KPI Calculations</b>
<b>Data Source</b>	AnubhavPlanningModel
<b>Responsive Fixed Layout</b>	Yes
<b>Rows</b>	<b>Account</b> Marketing Expenses (operating expense), FTE (allocation driver section)) <b>Entity</b> United States Only
<b>Columns</b>	VERSION (Actual,Alloc_FTE,Forecast) TIME (2020 )
<b>Filters</b>	NA
<b>Enable Explorer</b>	No

### Allocation Step

<b>Step Name</b>	<b>Allocation_Marketing_Exp</b>
<b>Description</b>	Allocate Marketing Expenses
<b>Source</b>	ENTITY
<b>Target</b>	<b>ENTITY</b>
<b>Filter by Account</b>	ACCOUNT (Marketing Expenses)
<b>Reference Dimension</b>	NA
<b>Booking Account</b>	NA

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## Requirement 3: Allocate Operating Expense to Product level based on previous Year's Sales

The leads of each marketing zone's now go back to their respective regions, the company have given them the target to sell the products, they are confused about how do they spend the budget provided for their region at the product level now. One good idea is to look at last year sales of the products and based on that allocate budget for each product accordingly. This allocation is intended to demonstrate that we can create allocations based on calculated values as well. The company is only in Apparel business in EMEA and Footwear business in APJ hence make sure we run the allocations accordingly.

Sales Previous Year (DRV0110) = LOOKUP([H111100] , [d/TIME]= Previous("Year",1))  
Gross Sales(H111100) WHERE Time = Previous 1 Year

- Create New version from Actuals called **OPEX\_By\_LAST\_Sales**
- Expand and observe that Operational Expenses for products
- Show unbooked data of all Regions
- Create new Process→Allocation Step
- Define Step the Rule in the step

This is how our planning Report looks like

<b>Page Name</b>	<b>KPI Calculations</b>
<b>Data Source</b>	AnubhavPlanningModel
<b>Responsive Fixed Layout</b>	Yes
<b>Rows</b>	<b>Account</b> Operating Expenses (operating expense), Sales Previous Year (allocation driver section)) <b>Entity</b> United States Only
<b>Columns</b>	VERSION (Actuals) TIME (2020) PRODUCT (all)
<b>Filters</b>	NA
<b>Enable Explorer</b>	No

### Allocation Step

<b>Step Name</b>	<b>OPEX_By_LAST_Sales</b>
<b>Description</b>	Allocate Opex by Last Year Sales
<b>Source</b>	ENTITY
<b>Target</b>	<b>PRODUCT</b>
<b>Filter by Account</b>	ACCOUNT (Operating Expenses)
<b>Reference Dimension</b>	ENTITY
<b>Booking Account</b>	NA

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## Allocation Rules

Source	Enterprise>United States
Driver	Previous Year Sales
Target	Product->(all)
Source	Enterprise>Overseas>APJ
Driver	Previous Year Sales
Target	Product->Footwear
Source	Enterprise>EMEA
Driver	Previous Year Sales
Target	Product->Apparel

Allocation / Opex_By_Last_Sales		
Overview Opex_By_Last_Sales +		
ENTITY (Source)	ACCOUNT (Driver)	PRODUCT (Target)
1 (all) > Enterprise > United States	Sales Previous Year	(all) > All Products > Apparel, (all) > All Pro...
2 (all) > Enterprise > Overseas > EMEA	Sales Previous Year	(all) > All Products > Apparel
3 (all) > Enterprise > Overseas > Asia Pacific	Sales Previous Year	(all) > All Products > Footwear
4		



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Formulas

Simple Allocation

Advance Allocation

Planning Financial Plan Anubhav

in Million

2 Filters

VERSION

Opex\_By\_Last\_Year

PRODUCT

TIME

ACCOUNT

ENTITY

Operating Expenses

Enterprise

Overseas

Asia Pacific

EMEA

United States

Northeast

Southeast

Pacific

Midwest

1,187.52

1,187.52

468.81

718.71

0.00

1,187.52

1,187.52

468.81

718.71

0.00

450.04

450.04

87.71

362.33

0.00

362.33

362.33

-

362.33

0.00

87.71

87.71

87.71

-

0.00

737.47

737.47

381.09

356.38

0.00

175.34

175.34

90.61

84.73

0.00

341.95

341.95

176.70

165.24

0.00

128.51

128.51

66.41

62.10

0.00

91.68

91.68

47.37

44.30

0.00

#### Requirement 4: Applying Conditional Formulas, Calculations and Exception Agg.

In our main data set the product Forecast data was missing for the products (e.g. athletic shirts) for all regions. We need to calculate the sales by calculating the gross sales of the products using complex and conditional formulas as given below.

**DRV0050** = Stored Price

**DRV0020** = Units

**DRV0055** **Lookup Price (NA)** = LOOKUP([DRV0050] ,[d/ENTITY]="#" )

- Since price for each product for all US regions stored under entity #

**DRV0060** **Revenue (NA)** = [DRV0020]\*[DRV0055]

- Exception Agg SUM by PRODUCT;ENTITY;TIME

**DRV0080** **Revenue (EMEA APJ)** = [DRV0020]\*[DRV0050]

- Exception Agg SUM by PRODUCT;ENTITY;TIME

## This is how our planning Report looks like

<b>Page Name</b>	<b>Sales Planning</b>
<b>Data Source</b>	AnubhavPlanningModel
<b>Responsive Fixed Layout</b>	Yes
<b>Rows</b>	<b>Account</b> Gross Sales (Gross Revenue) Sales (Drivers) - unbooked
<b>Columns</b>	VERSION (Actuals, Forecast) ENTITY (all)
<b>Filters</b>	PRODUCT (Apparel>Athletic Shirts) TIME (2020)
<b>Enable Explorer</b>	No

- Once the formulas for the lookup price and Revenue are applied, we need to perform SUM which is an exception aggregation by other properties.
- Add calculated gross sales based on gross sales for Actuals and Forecasted value, this will be a conditional formula as below
- Finally hide all the non-essentials intermediate values.

DRV0090 = Calc Gross Sales

- Actuals is my real sales pick from [H111100] Gross Sales

For US take DRV0060 Revenue (NA)

- When Entity Hierarchy Level 2 = United States

Else take from DRV0080Revenue (EMEA APJ) Else all cases

- Exception Agg SUM by PRODUCT;ENTITY;TIME

IF([d/VERSION].[p/CATEGORY]="Actuals" ,[H111100] ,  
IF([d/ENTITY].[p/ENTITY\_H1L2]="United States" ,[DRV0060] ,[DRV0080]))

Planning Financial Plan Anubhav											
2 Filters											
VERSION Advance_Forecast											
ENTITY (all) Enterprise Not Assigned Overseas Asia Pacific EMEA United States Northeast Southeast Pacific Midwest											
ACCOUNT											
Gross Sales	103.63 M	103.63 M	–	49.60 M	46.01 M	3.60 M	54.03 M	16.82 M	19.08 M	5.69 M	12.45 M
Sales	\$10.00										
Units	6,301.42 k	6,301.42 k	–	898.34 k	616.87 k	281.47 k	5,403.08 k	1,682.01 k	1,907.53 k	568.85 k	1,244.69 k
Stored Price	\$10.00										
Calc Gross Sales			–	\$46.01 m	\$3.60 m	\$54.03 m	\$16.82 m	\$19.08 m	\$5.69 m	\$12.45 m	



## Requirement 5: Value Driver Tree

### Create New Planning Model - Using Blank Model

The Sales Dataset below has information about Sales, Quantity, Discount and Net Sales. We need to create a planning model, this time Mr. Anubhav will use the planning model with a **new blank model** rather than uploading file and explain the mapping

Name	Description	Number of Members	Number of Hierarchies	Other Attributes
Version				
Version	Version	1	—	
Account				
ACCOUNT	Account	4	1	
Date				
Date	Date	—	—	
Generic				
SAP_CEP_PRODUCT	Product	23	1	
SAP_CEP_CUSTOMER	Customer	73	1	
PLANNING_LEVEL	Planning Level	1	0	
SAP_CEP_ENTITY	Entity	8	1	⌚
Organization				
SAP_CEP_SALESORG	Sales Org	8	1	⌚ 👤

### After Mapping of Data

Name	Description	Number of Members	Number of Hierarchies	Other Attributes
Version				
Version	Version	1	—	
Account				
ACCOUNT	Account	19	1	
Date				
Date	Date	—	—	
Generic				
SAP_CEP_PRODUCT	Product	28	1	
SAP_CEP_CUSTOMER	Customer	73	1	
PLANNING_LEVEL	Planning Level	3	0	
SAP_CEP_ENTITY	Entity	12	1	⌚
Organization				
SAP_CEP_SALESORG	Sales Org	9	1	⌚ 👤

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It is extremely important for company to understand the overall impact of change, in an account dimension on different accounts. Also, anubhav trainings wants to visualize the change across all the account dimensions and how data flows between different hierarchies. In order to achieve this, we have to design **Value driver trees**.

In context of current scenario, we would like to know how change of Growth Rate, Price Index, Sales Ambition% and Discount % impacts my sales and Discount overall impact of same on entire Net Sales for coming year. The end user should be able to adjust the Growth Rate, Price Index, Sales Ambition% and Discount % anytime in stories and the sales value must change automatically. Finally, we need to simulate and integrate same with story.

<b>Node Name</b>	<b>Price Index</b>
<b>Node Type</b>	Data Source Node
<b>Source</b>	Account → Price Index
<b>Filter</b>	Date → 2021-2023

<b>Node Name</b>	<b>Sales Ambition</b>
<b>Node Type</b>	Data Source Node
<b>Source</b>	Account → Sales Ambition %
<b>Filter</b>	Date → 2021-2023

<b>Node Name</b>	<b>Growth Rate</b>
<b>Node Type</b>	Data Source Node
<b>Source</b>	Account → Market Growth Rate Base
<b>Filter</b>	Date → 2021-2023

<b>Node Name</b>	<b>Discount %</b>
<b>Node Type</b>	Data Source Node
<b>Source</b>	Account → Discount %
<b>Filter</b>	Date → 2021-2023

<b>Node Name</b>	<b>Price</b>
<b>Node Type</b>	YoY Node
<b>Source</b>	Account → Price
<b>Filter</b>	Date → 2021-2023
<b>Child Node</b>	Price Index

<b>Node Name</b>	<b>Quantity</b>
<b>Node Type</b>	Union Node
<b>Source</b>	Account → Quantity (Sim)

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<b>Filter</b>	Date → 2021-2023
<b>Child Node</b>	Growth Rate , Sales Ambition

<b>Node Name</b>	<b>Discount</b>
<b>Node Type</b>	YoY Node
<b>Source</b>	Account → Discounts
<b>Filter</b>	Date → 2021-2023
<b>Child Node</b>	Discount %

<b>Node Name</b>	<b>Sales</b>
<b>Node Type</b>	Union Node
<b>Source</b>	Account → Gross Sales
<b>Filter</b>	Date → 2021-2023
<b>Child Node</b>	Price, Quantity

<b>Node Name</b>	<b>Net Sales</b>
<b>Node Type</b>	Union Node
<b>Source</b>	Account → Net Sales
<b>Filter</b>	Date → 2021-2023
<b>Child Node</b>	Sales, Discounts



Stefany have also received the data from HR department for the head counts, she has been asked to create

## HR Department Scenario in Planning

a dashboard which allows HR department to calculate the headcounts based on new hires and terminations. This is a calculation which is nightmare for the department and needs to be well integrated on our planning dashboard.

### Requirement 1: Create New Planning model – using blank model

The HR Dataset below has sensitive information about cost of salaries per date, per region wise along with headcounts including new hires and terminations. We need to create a planning model, this time Mr. Anubhav will use the planning model with a **new blank model** rather uploading file and explain the mapping

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
ACCOUNT	ACCOUNT	ACCOUNT	Version	ENTITY	ENTITY	JOBFAM	JOBFAM	AUDITID	AUDITID	MOVEM	MOVEM	Value	ValueUr	DATE
TOTAL_CO	Total Cost		Actuals	REG0001	Northeast	#	Unassigned	AT_SAC_L	Load	#	Unassigned	368770 USD		20170101
TOTAL_CO	Total Cost		Actuals	REG0001	Northeast	#	Unassigned	AT_SAC_L	Load	#	Unassigned	378004 USD		20170201
TOTAL_CO	Total Cost		Actuals	REG0001	Northeast	#	Unassigned	AT_SAC_L	Load	#	Unassigned	378004 USD		20170301
TOTAL_CO	Total Cost		Actuals	REG0001	Northeast	#	Unassigned	AT_SAC_L	Load	#	Unassigned	399674 USD		20170401
TOTAL_CO	Total Cost		Actuals	REG0001	Northeast	#	Unassigned	AT_SAC_L	Load	#	Unassigned	393802 USD		20170501
TOTAL_CO	Total Cost		Actuals	REG0001	Northeast	#	Unassigned	AT_SAC_L	Load	#	Unassigned	387931 USD		20170601
TOTAL_CO	Total Cost		Actuals	REG0001	Northeast	#	Unassigned	AT_SAC_L	Load	#	Unassigned	399935 USD		20170701
TOTAL_CO	Total Cost		Actuals	REG0001	Northeast	#	Unassigned	AT_SAC_L	Load	#	Unassigned	403890 USD		20170801
TOTAL_CO	Total Cost		Actuals	REG0001	Northeast	#	Unassigned	AT_SAC_L	Load	#	Unassigned	425128 USD		20170901
TOTAL_CO	Total Cost		Actuals	REG0001	Northeast	#	Unassigned	AT_SAC_L	Load	#	Unassigned	413385 USD		20171001
TOTAL_CO	Total Cost		Actuals	REG0001	Northeast	#	Unassigned	AT_SAC_L	Load	#	Unassigned	407514 USD		20171101
TOTAL_CO	Total Cost		Actuals	REG0001	Northeast	#	Unassigned	AT_SAC_L	Load	#	Unassigned	407514 USD		20171201
TOTAL_CO	Total Cost		Actuals	REG0001	Northeast	JF001	Business	CAT_SAC_L	Load	#	Unassigned	615595 USD		20170101
TOTAL_CO	Total Cost		Actuals	REG0001	Northeast	JF001	Business	CAT_SAC_L	Load	#	Unassigned	677155 USD		20170201
TOTAL_CO	Total Cost		Actuals	REG0001	Northeast	JF001	Business	CAT_SAC_L	Load	#	Unassigned	677155 USD		20170301
TOTAL_CO	Total Cost		Actuals	REG0001	Northeast	JF001	Business	CAT_SAC_L	Load	#	Unassigned	923393 USD		20170401

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
ACCOUNT	ACCOUNT	ACCOUNT	Version	ENTITY	ENTITY	JOBFAM	JOBFAM	AUDITID	AUDITID	MOVEM	MOVEM	Value	ValueUr	DATE
HEADCOU	Headcount		Actuals	REG0001	Northeast	JF001	Business	CAT_SAC_L	Load	CLOSING	Closing	100 Count		20170101
HEADCOU	Headcount		Actuals	REG0001	Northeast	JF001	Business	CAT_SAC_L	Load	CLOSING	Closing	110 Count		20170201
HEADCOU	Headcount		Actuals	REG0001	Northeast	JF001	Business	CAT_SAC_L	Load	CLOSING	Closing	110 Count		20170301
HEADCOU	Headcount		Actuals	REG0001	Northeast	JF001	Business	CAT_SAC_L	Load	CLOSING	Closing	142 Count		20170401
HEADCOU	Headcount		Actuals	REG0001	Northeast	JF001	Business	CAT_SAC_L	Load	CLOSING	Closing	147 Count		20170501
HEADCOU	Headcount		Actuals	REG0001	Northeast	JF001	Business	CAT_SAC_L	Load	CLOSING	Closing	152 Count		20170601
HEADCOU	Headcount		Actuals	REG0001	Northeast	JF001	Business	CAT_SAC_L	Load	CLOSING	Closing	165 Count		20170701
HEADCOU	Headcount		Actuals	REG0001	Northeast	JF001	Business	CAT_SAC_L	Load	CLOSING	Closing	182 Count		20170801
HEADCOU	Headcount		Actuals	REG0001	Northeast	JF001	Business	CAT_SAC_L	Load	CLOSING	Closing	201 Count		20170901
HEADCOU	Headcount		Actuals	REG0001	Northeast	JF001	Business	CAT_SAC_L	Load	CLOSING	Closing	201 Count		20171001
HEADCOU	Headcount		Actuals	REG0001	Northeast	JF001	Business	CAT_SAC_L	Load	CLOSING	Closing	201 Count		20171101
HEADCOU	Headcount		Actuals	REG0001	Northeast	JF001	Business	CAT_SAC_L	Load	CLOSING	Closing	201 Count		20171201
HEADCOU	Headcount		Actuals	REG0001	Northeast	JF001	Business	CAT_SAC_L	Load	HIRES	Hires	0 Count		20170101



Files / HR Headcount Model

Tr

Model

Data Management

General

Edit

Data

View

Validation

Search

Name	Description	Number of Members	Number of Hierarchies	Other Attributes
Version				
Version	Version	2	—	
Account				
ACCOUNT	ACCOUNT	16	1	
Date				
Date	Date	—	—	
Generic				
AUDIT	AUDIT	4	0	
JOBFAMILY	JOBFAMILY	10	0	
MOMENT	MOMENT	5	0	
Organization				
ENTITY	ENTITY	7	0	<div><div></div><div></div></div>

Requirement 2: Create a Story with headcount report

Page Name	HR HeadCounts
Data Source	AnubhavHeadCountModel
Responsive Fixed Layout	Yes
Rows	Moment
Columns	Version Actual (Actual) DATE (2017-2018)
Filters	Account Headcount
Enable Explorer	No

Report looks like below

HR Headcount Model

1 Filter

Version	Actual								
Date	2017	Q1 (2017)	Jan (2017)	Feb (2017)	Mar (2017)	Q2 (2017)	Apr (2017)	May (2017)	Jun (2017)
MOMENT									
Closing	927.00	709.00	701.00	713.00	709.00	807.00	765.00	788.00	807.00
Hires	0.00	52.00	37.00	12.00	52.00	19.00	70.00	27.00	19.00
Opening	927.00	713.00	666.00	701.00	713.00	788.00	709.00	765.00	788.00
Terminations	0.00	56.00	2.00	0.00	56.00	0.00	14.00	4.00	0.00

Requirement 3: Create Story action to copy the data of 2017 headcount to 2018 plan version

Page Name	HR HeadCounts
Data Source	AnubhavHeadCountModel
Responsive Fixed Layout	Yes
Rows	Moment
Columns	Version (Actual, Plan 2018) DATE (2017-2018)
Filters	Account Headcount
Enable Explorer	No

Create a copy action to copy data from **Load** Audit data to



Action Name	Copy Data from Actuals
Data Source	AnubhavHeadCountModel
Filters	Version – Actual, Date -2017
Copy Rule	Dimension - AUDIT From - load To – Stored Logic Calculation
Write mode	Overwrite

Once we create the plan version and execute the action, the data looks below

Plan 2018

2017

Q1 (2017)

Q2 (2017)

Q3 (2017)

Q4 (2017)

927.00	709.00	807.00	902.00	927.00
0.00	52.00	19.00	33.00	0.00
927.00	713.00	788.00	875.00	927.00
0.00	56.00	0.00	6.00	0.00

## Requirement 4: Auto calculate headcounts based on Scripting based actions

Finally, we would like to calculate the headcounts based on Hires and Terminations. For calculation, we have to set the opening balance to the ending balance of previous period and Add new hires and subtract the terminations to calculate the final balance. These set of actions needs to be repeated for entire duration on MoM basis. This is performed using the scripting-based actions, for the ease of writing Anubhav will also show Visual way of writing the script.

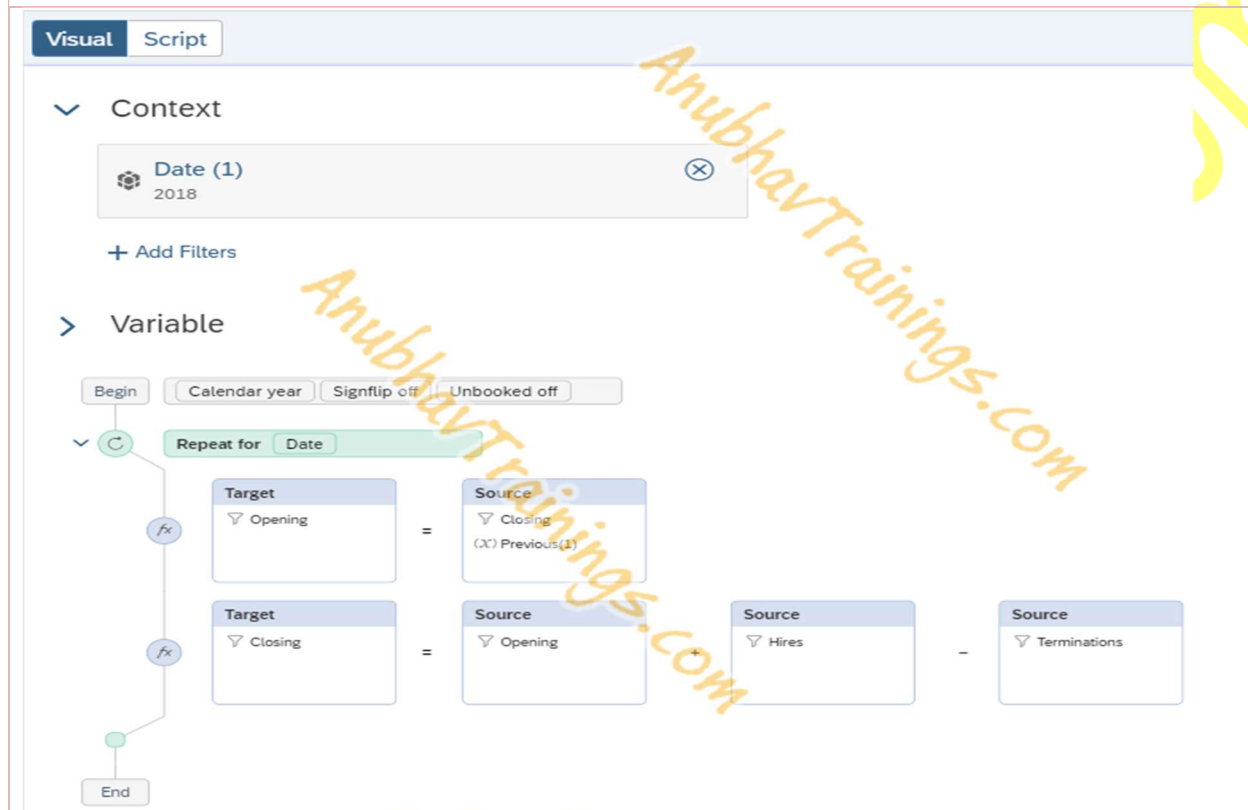
Context	Date 2018
CONFIG.TIME_HIERARCHY = CALENDARYEAR CONFIG.FLIPPING_SIGN_ACCORDING_ACCTYPE = OFF CONFIG.GENERATE_UNBOOKED_DATA = OFF MEMBERSET [d/Date] = (BASEMEMBER([d/Date].[h/YQM], "2018"))  FOREACH [d/Date]	

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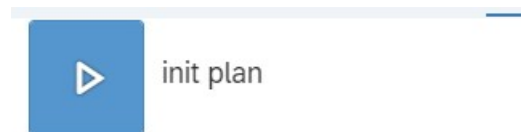
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```
DATA([d/MOMENT] = "OPENING") = RESULTLOOKUP([d/MOMENT] = "CLOSING", [d/Date] =  
Previous(1))  
DATA([d/MOMENT] = "CLOSING") = RESULTLOOKUP([d/MOMENT] = "OPENING") +  
RESULTLOOKUP([d/MOMENT] = "HIRES") - RESULTLOOKUP([d/MOMENT] = "TERMINATIONS")  
ENDFOR
```



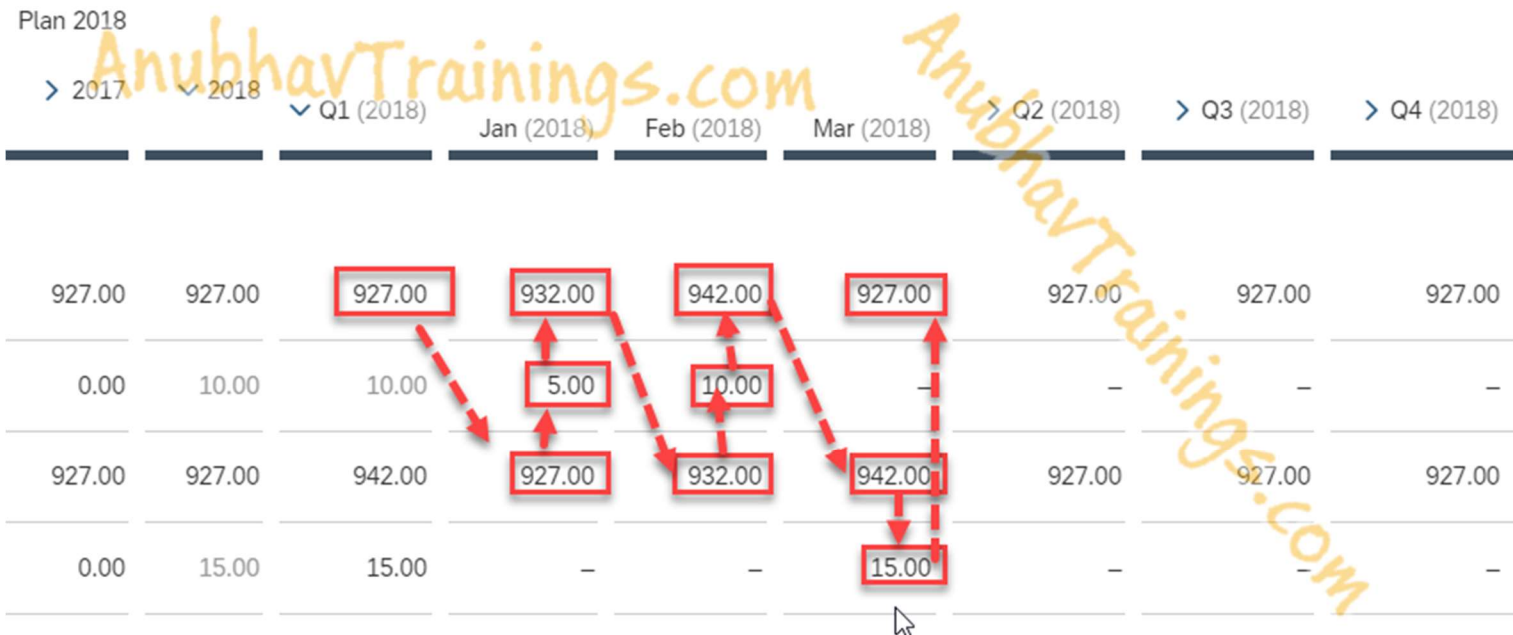
Finally, we add an action trigger on the story, with the click of a button all the data gets copied to plan version and headcount calculations will be triggered



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