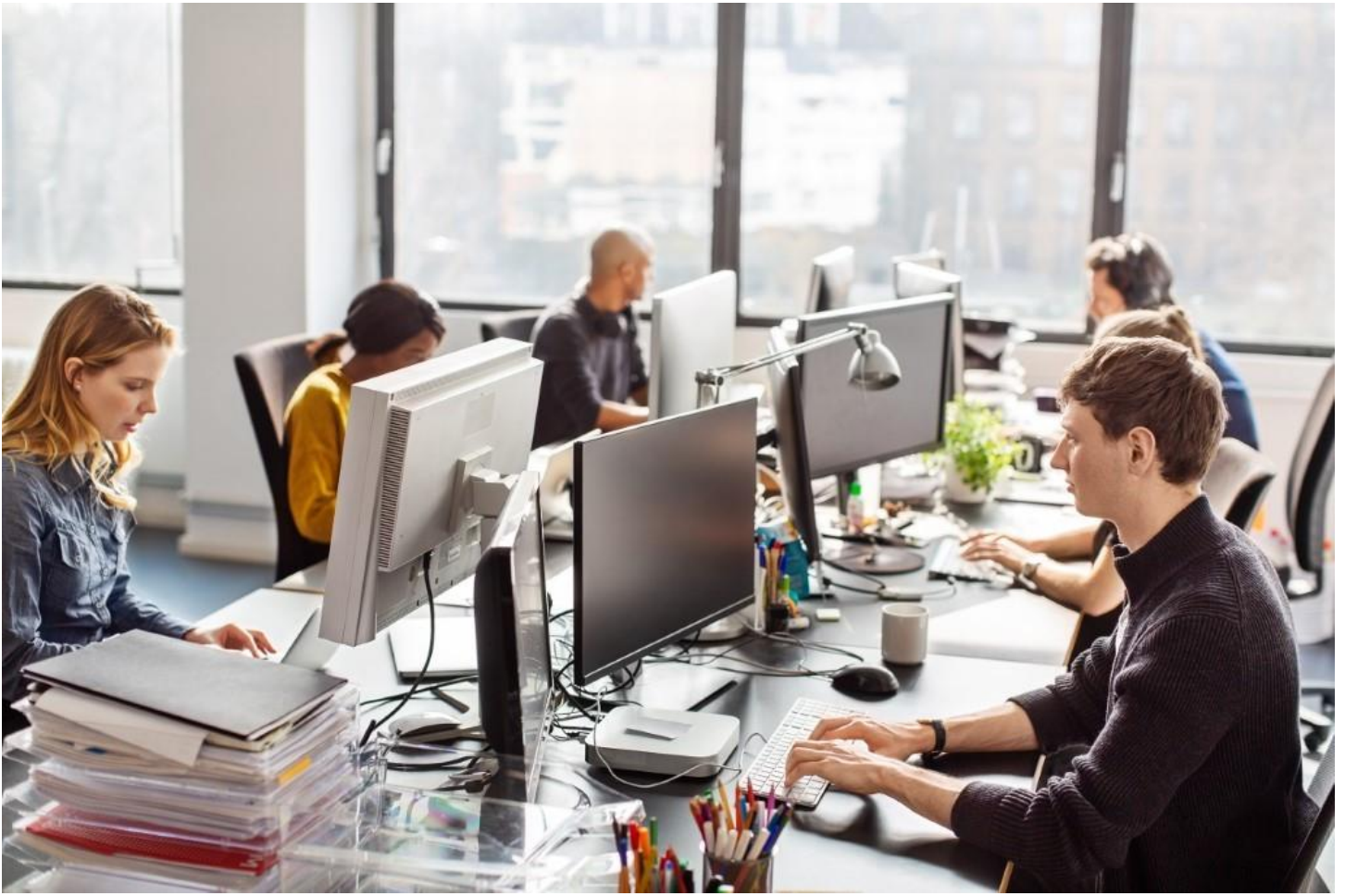




SAP[®] Analytics Cloud

Introduction to SAP Analytics Cloud(SAC)

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Revision	17 – Jan 2020 18 – March 2020 19 – July 2020 01 – Feb 2021

Introduction

SAP Analytics Cloud is a new generation of Software-as-a-Service (SaaS) that is built on the SAP HANA Cloud Platform which provides business intelligence, planning, and predictive capabilities for all users in one solution. In the boardroom, at the office, or in front of a customer, you can discover, analyze, plan, predict, and collaborate in one integrated experience designed expressly for the cloud. Access all data and embed analytics directly into business processes to turn instant insight into quick action.

In this hands-on exercise, you will first gain an overview of SAP Analytics Cloud and then utilize many of its most-used features to solve common business-related questions. During the exercise, you will use SAP Analytics Cloud to work on several typical business scenarios while viewing and enhancing the management dashboard for JF Technology – a fictional SAP customer company based in Canada:

JF Technology: "We are a technology company based in Vancouver, Canada. We have data everywhere - on cloud, on premises, and on personal computers. For example, our HR, travel and other data all reside in the cloud on different SAP applications. We have always wanted a way to combine all of our data at once in a single platform that gives us meaningful insights - with the capabilities of Business Intelligence, Predictive Analytics and Financial Planning."

With SAP Analytics Cloud, JF Technology doesn't have to utilize multiple disparate systems for understanding its data because SAP Analytics Cloud has all the necessary reporting and analytics functionality combined and accessible from a single point through the cloud.

BEFORE YOU START

SAP Analytics Cloud requires Google Chrome for designing its Stories. If you discover any issues with chrome, disable Third-Party cookies in your Chrome Settings:

- Type "cookies" in the Windows or Mac search box and then click "Block or Allow Third-Party Cookies"
- Then navigate to Content settings → Cookies
- Unselect "Block third-party cookies and site data"

Access the SAP Analytics cloud system via the URL provided by the instructor.

System URL, Username and Password will be provided during the session.

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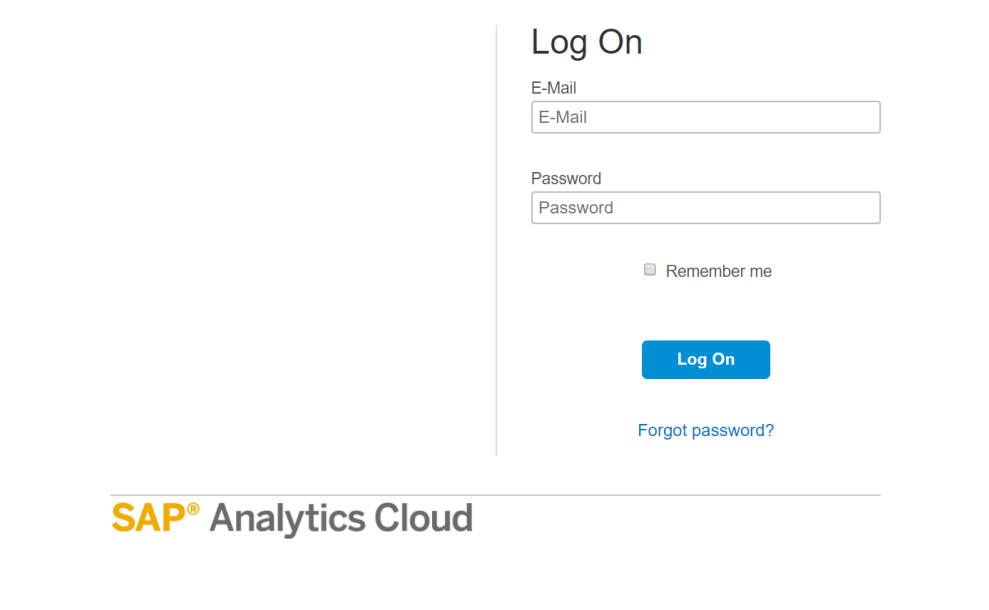
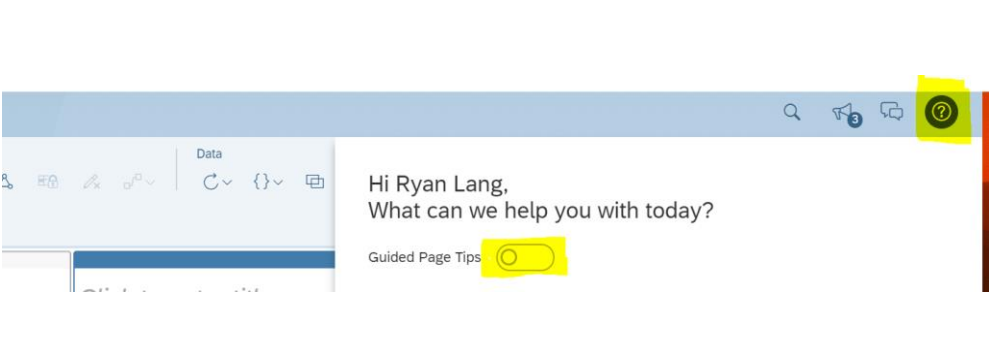
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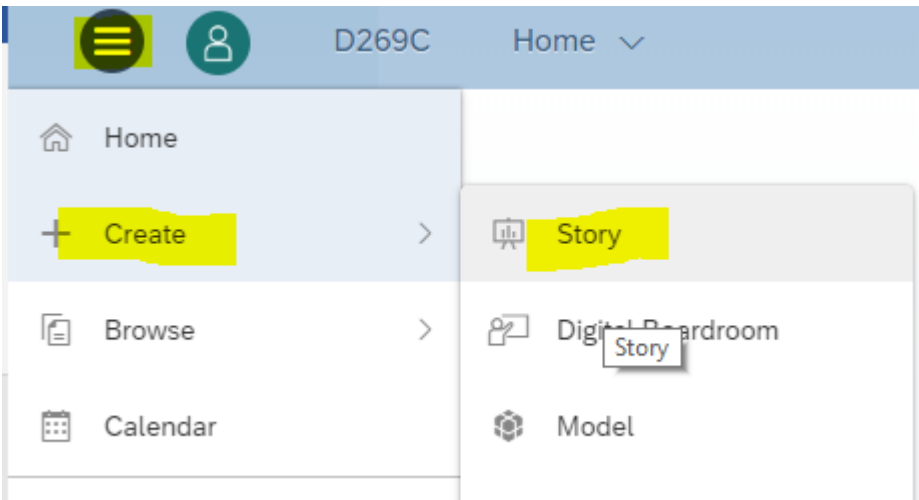
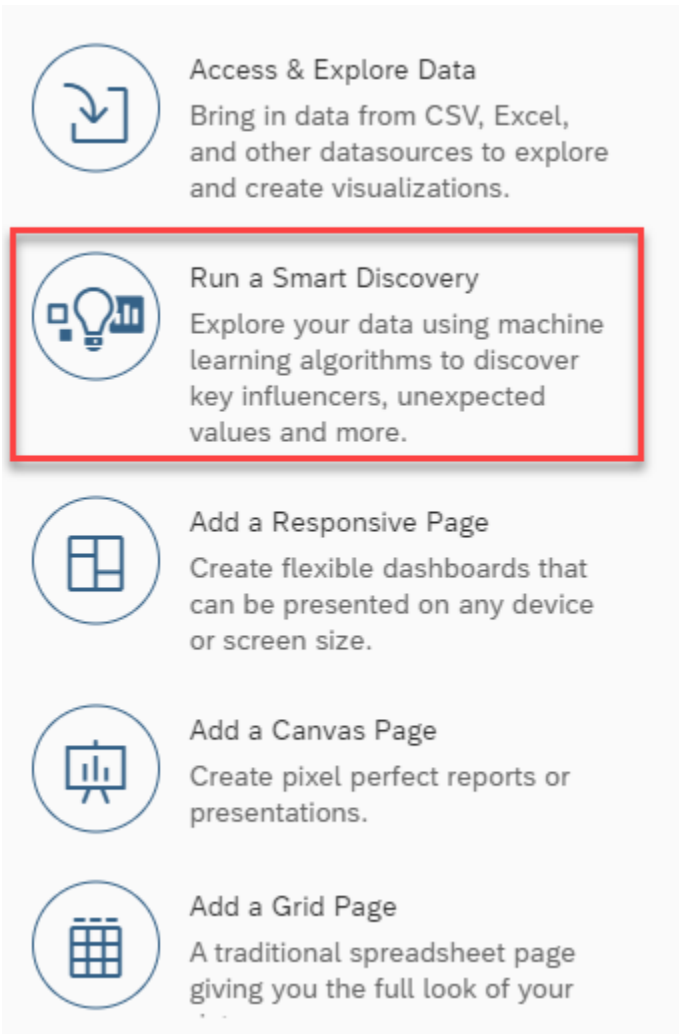
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EXERCISE 1 - LOG IN [5 MINUTES]

Explanation	Screenshot
Launch Analytics Cloud in Chrome You will receive the login URL along with your assigned username and password ahead of time.	
Analytics Cloud will prompt you with tooltips to help guide you through the application. You may find it distracting. If this pops up when you logon you can turn these off by doing the following: Click the question mark on the top right of your window Click the toggle off for 'Guided Page Tips'	

EXERCISE 2 – AUTOMATIC REPORT CREATION [15 MINUTES]

In this exercise, we will explore the features available within analytics cloud to get you up and running with a minimum of work. We will learn how to type questions and instantly generate meaningful visualizations, recognize important trends with the click of a button and enhance visualizations with in-context explanations

Click on the top left menu > Create > Story	 The screenshot shows the top navigation bar with a hamburger menu icon, a user profile icon, and the text 'D269C Home'. Below the bar, a 'Create' menu is open, showing options: 'Home', 'Create' (highlighted), 'Browse', and 'Calendar'. The 'Create' menu is further open, showing options: 'Story' (highlighted), 'Digital Boardroom', and 'Model'.
From the right hand side of the screen, select 'Run a smart discovery'	 The screenshot shows a list of features on the right side of the screen. The 'Run a Smart Discovery' feature is highlighted with a red box. The features listed are: Access & Explore Data: Bring in data from CSV, Excel, and other datasources to explore and create visualizations. Run a Smart Discovery: Explore your data using machine learning algorithms to discover key influencers, unexpected values and more. (This feature is highlighted with a red box.) Add a Responsive Page: Create flexible dashboards that can be presented on any device or screen size. Add a Canvas Page: Create pixel perfect reports or presentations. Add a Grid Page: A traditional spreadsheet page giving you the full look of your

You will get the following information popup regarding Smart Discovery

Smart Discovery uses Entities to define the levels that Smart Discovery will aggregate your data in relation to your chosen target.

To remove this information popup click – **Got It**

Welcome!



Enhance the answer you get to your business question, with our new and improved Smart Discovery!

Smart Discovery can better answer your business question, by helping you more clearly define what it is you'd like to know more about.

To help you set the context of your business question, we've introduced the concept of an entity.

The entity defines the level to which Smart Discovery should aggregate your data, so we can analyze it for you in relation to the target.

The target, as before, is the measure or dimension you're interested in knowing more about.

Defining a better question means that Smart Discovery can create better analysis results for you to explore.

*For example, by selecting **Revenue** as your target, and **Stores** as your entity, you're then asking Smart Discovery to analyze your **Stores** in relation to their **Revenue**.*

You can also now get a preview of your business question, before Smart Discovery starts to analyze your data.

And we've enhanced the way we present the analysis results.

Try it for yourself, and let your data talk!

[Learn more](#) [Got it](#)

We are now going to create our Topic by selecting a **Target**

Click on '**Select a dimension or a measure**' under Target

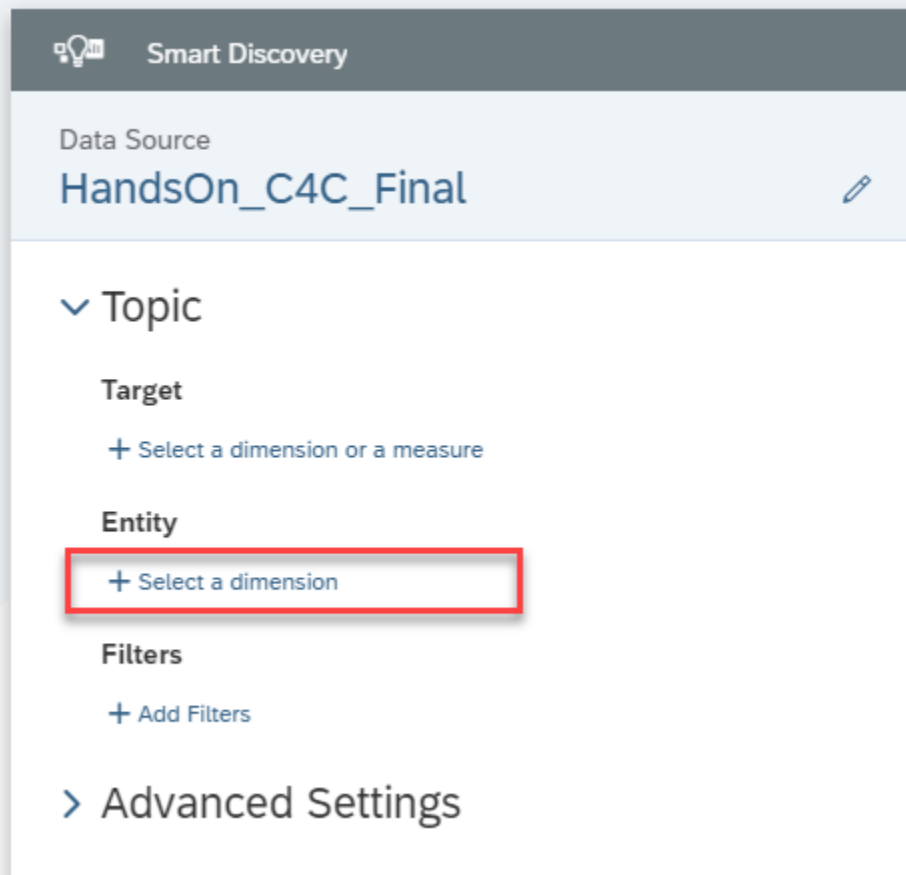
Select '**ExpectedRevenue**'

The screenshot displays the 'Smart Discovery' interface. At the top, the 'Data Source' is set to 'HandsOn_C4C_Final'. Below this, the 'Topic' section is expanded, showing three categories: 'Target', 'Entity', and 'Filters'. The 'Target' category is selected, and a red box highlights the button '+ Select a dimension or a measure'. Below the 'Entity' category, there is a button '+ Select a dimension'. Under the 'Filters' category, there is a button '+ Add Filters'. At the bottom of the 'Topic' section, there is a link '> Advanced Settings'.

Below the first screenshot, the same 'Smart Discovery' interface is shown, but with the 'Target' dropdown menu open. The dropdown menu has a search bar and lists two main categories: 'MEASURES' and 'DIMENSIONS'. Under 'MEASURES', three items are listed: 'ExpectedRevenue', 'WeightedRevenue', and 'No Customer Trips'. A red box highlights the 'ExpectedRevenue' item, indicating it is the selected target.

We need to select an Entity which will allow Smart Discovery to create better analysis in relation to our selected Target.

Under **Entity**
Click '**Select a dimension**'



The image shows a 'Smart Discovery' configuration interface. At the top, there is a dark grey header with a lightbulb icon and the text 'Smart Discovery'. Below this is a light blue section for 'Data Source' with the text 'HandsOn_C4C_Final' and a pencil icon. The main area is white and contains several sections: 'Topic' with a dropdown arrow, 'Target' with a plus icon and the text 'Select a dimension or a measure', 'Entity' with a plus icon and the text 'Select a dimension' (this button is highlighted with a red rectangle), 'Filters' with a plus icon and the text 'Add Filters', and 'Advanced Settings' with a right-pointing arrow.

Smart Discovery

Data Source
HandsOn_C4C_Final

▼ Topic

Target
+ Select a dimension or a measure

Entity
+ Select a dimension

Filters
+ Add Filters

> Advanced Settings

We need to select the following items:

- Business_AreaDescription**
- Employee**
- EmployeeDescription**
- Sales_PhaseId**
- SourceDescription**
- SourceId**
- TimeQuarter**
- TimeYear**

You may need to scroll down within the list box to find some of these items.

Once you have selected them all, click outside the dropdown box to store your selections

Entity

Search



- ☒ Business_AreaDescription
- ☐ Business_AreaId
- ☐ CategoryCategory
- ☐ CategoryVersion
- ☐ CustomerDescription
- ☐ CustomerId
- ☐ Customer_CountryDescription
- ☐ Customer_CountryId
- ☐ Customer_RegionDescription
- ☐ Customer_RegionId
- ☐ DealSizeId
- ☐ Deal_Size
- ☒ Employee
- ☐ EmployeeDescription

Expand the 'Advanced Settings'
Arrow

Click 'Measures'

 **Smart Discovery**

Data Source
HandsOn_C4C_Final 

▼ Topic

Target

 **ExpectedRevenue** 
ExpectedRevenue

Entity

 **Business_AreaDescription, Employee, Employee...** 
Business_AreaDescription, Employee, EmployeeDescription, Sal...

Filters

[+ Add Filters](#)

> Advanced Settings

▼ Advanced Settings

Version:

Actual 

Included Columns 

Measures
All Measures

Dimensions
All Dimensions

Deselect 'WeightedRevenue' by clicking on the checkbox Click OK	Set Measures to Include in Discovery Available Measures ☒ All Measures ☒ ExpectedRevenue ⓘ ☒ No Customer Trips ☒ WeightedRevenue Selected Measures All Measures ... Clear Selection OK Cancel
Click on 'Dimensions'	▼ Advanced Settings Version: Actual ▼ Included Columns ⓘ Measures (2) No Customer Trips, ExpectedRevenue Dimensions All Dimensions

We now want to exclude some dimensions as there are strong correlations between these influencers.

Exclude the following dimensions by deselecting them: Use the scroll bar to the left to find the relevant dimensions:

“Business_AreaID”

“Deal_Size

“DealSizeID”

“ProbabilityDescription”

“ProbabilityID”,

.

Click ‘OK’ once you have deselected them all.

Set Dimensions to Include in Discovery

Available Dimensions

- ☒ All Dimensions
- ☒ Business_AreaDescription
- ☒ **Business_AreaID**
- ☒ CategoryCategory
- ☒ CategoryVersion
- ☒ Customer_CountryDescription
- ☒ Customer_CountryId
- ☒ Customer_RegionDescription
- ☒ Customer_RegionId
- ☒ CustomerDescription
- ☒ CustomerId
- ☒ **Deal_Size**

Selected Dimensions

All Dimensions

Clear Selection

OK Cancel

The Preview function allows you to preview a summary of the data you have selected before you Run the Smart Discovery

Click on the ‘**Preview**’ button

Advanced Settings

Version:

Actual

Included Columns ⓘ

Measures (2)

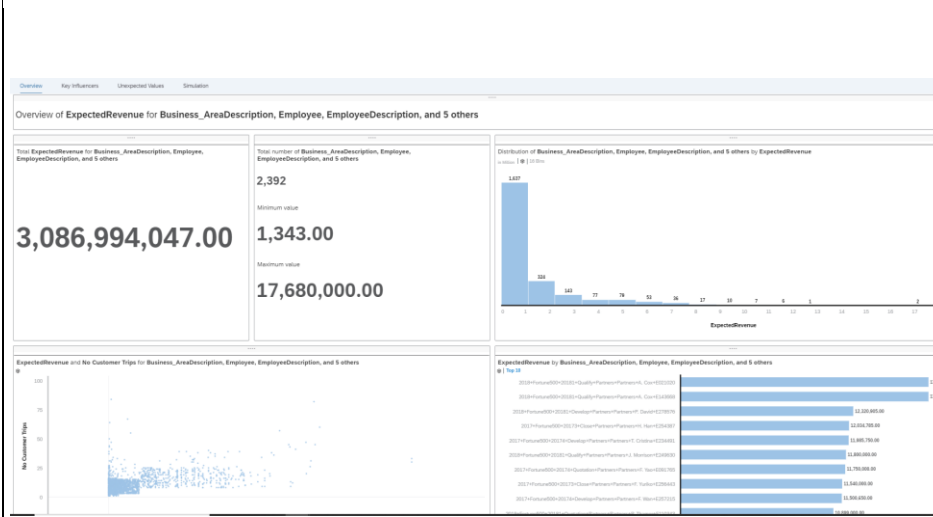
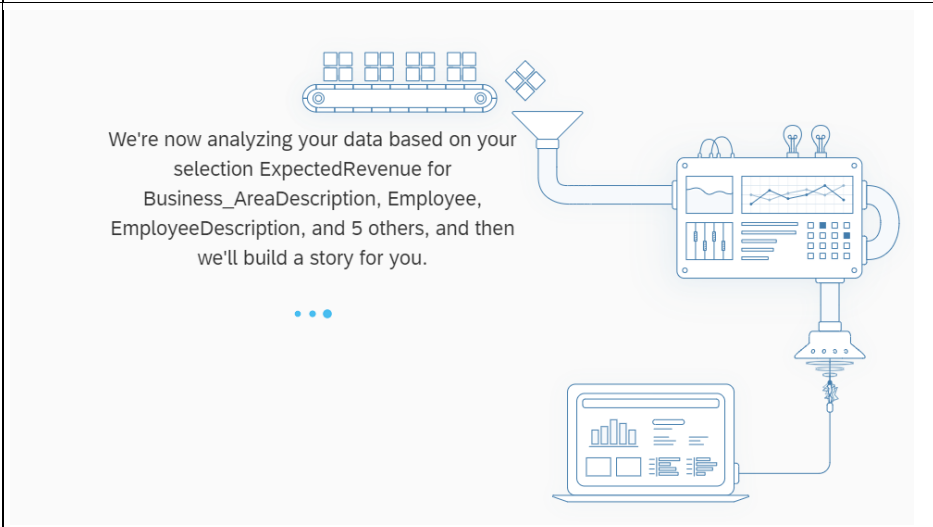
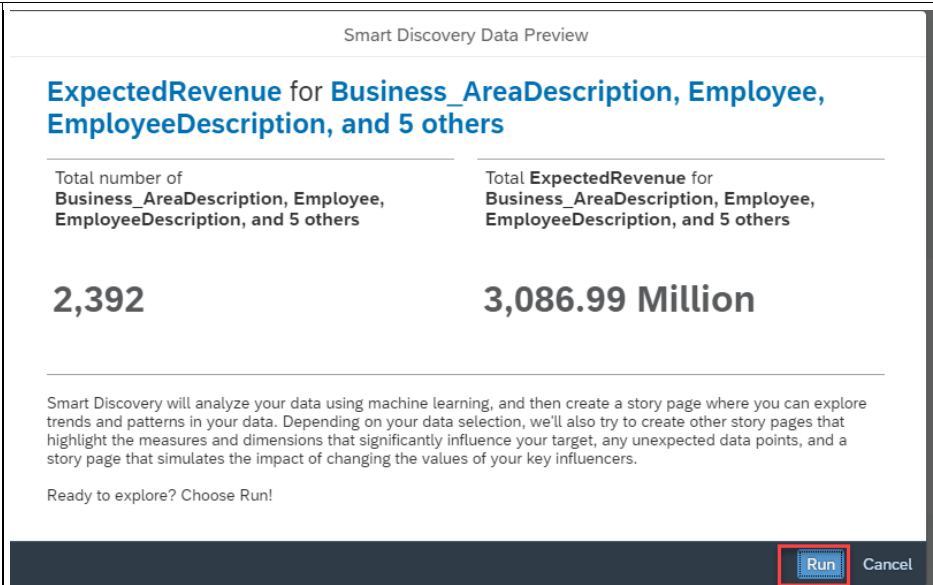
No Customer Trips, ExpectedRevenue

Dimensions (32)

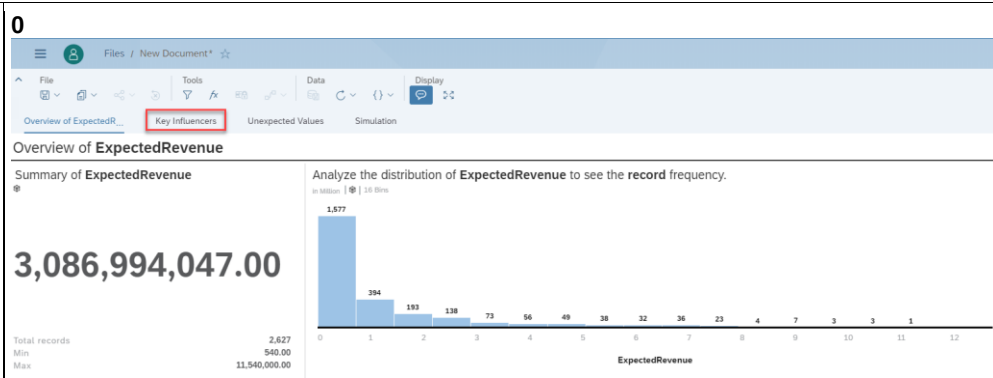
Business_AreaDescription, CategoryCategory, CategoryVersion, Cus...

Preview Run Cancel

Take a minute to look at the different charts. You can see the relationship between sales and business areas, the revenue by employee and the relationship between the number of customer trips and the revenue.

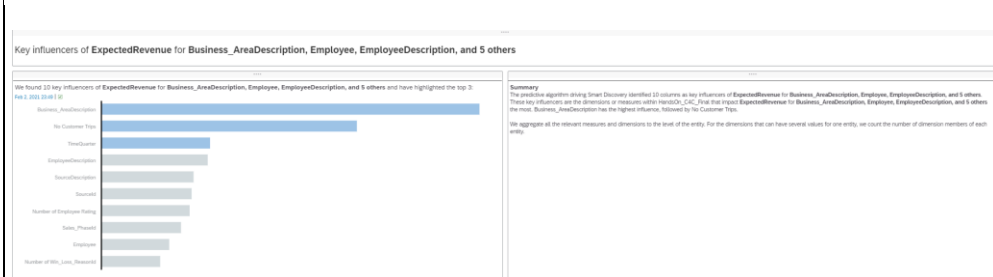


Click on the 'Key Influencers' page

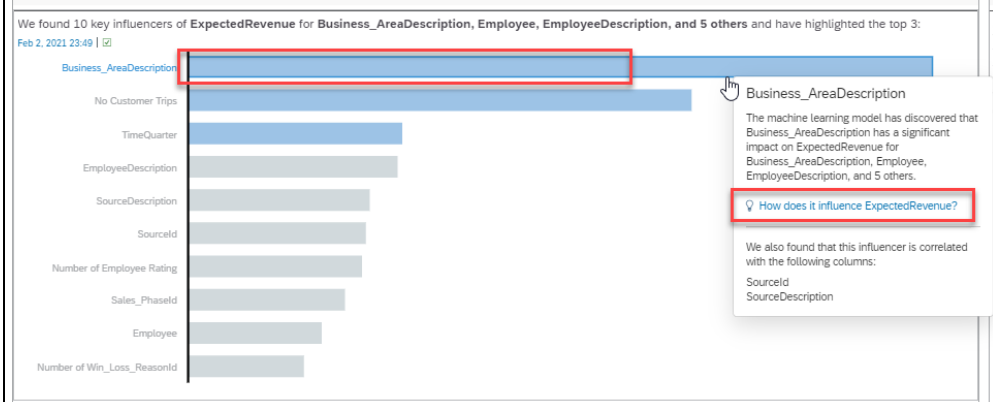


Now the result came back which shows that **Business_AreaDescription** is one of our top influencers.

The top bar chart shows the influence each dimension has on the result.



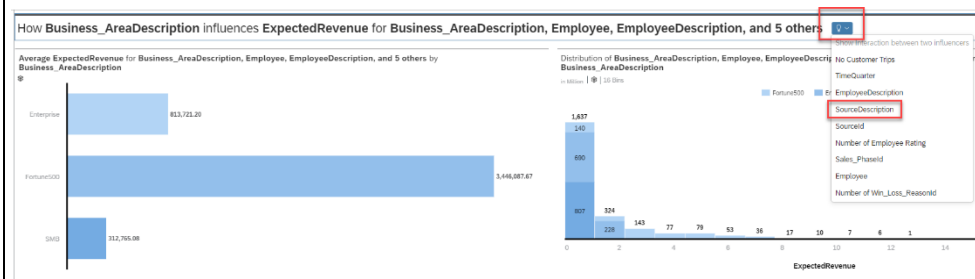
To see more information regarding the influence of **Business_AreaDescription**, Hover on the 'Business_AreaDescription' and click 'How does it influence ExpectedRevenue?'



This brings us to the chart below the first chart.

From this chart, you can see that the fortune 500 companies have strong influence on the expected revenue, and you can pair this influencer with another piece of information – "source" to discover more insight.

Click the lightbulb above the chart and select 'SourceDescription'

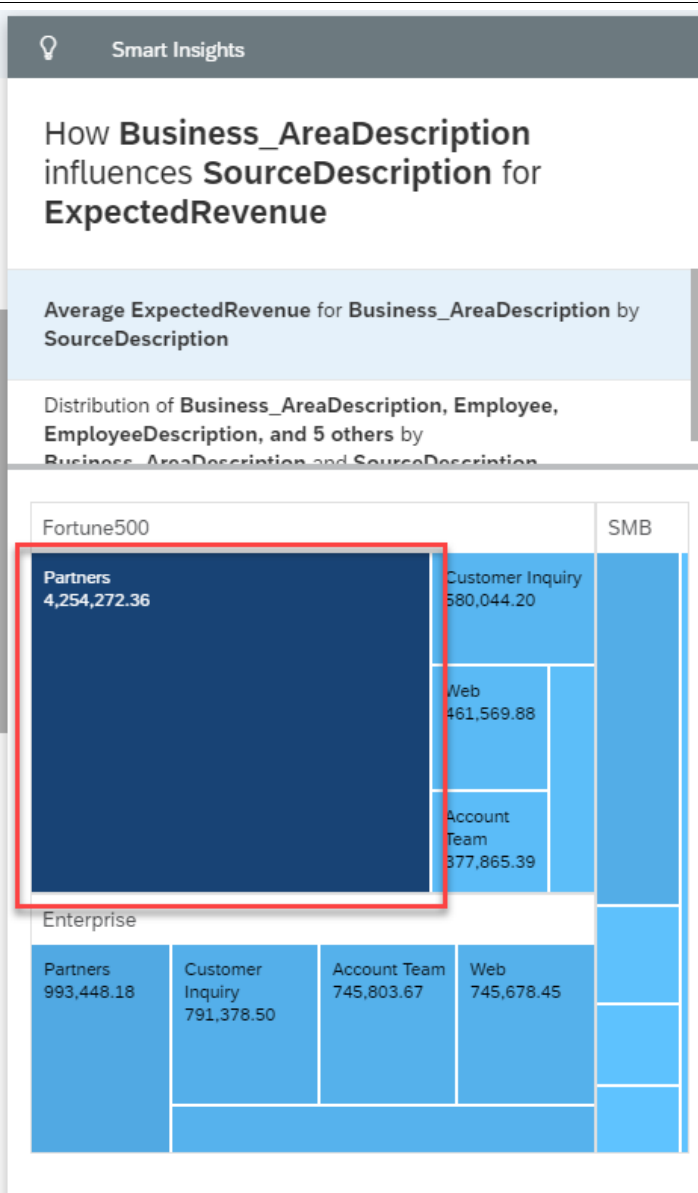


What this does is bring up another screen to the right hand side which shows the relationship between the business area and the source.

What is interesting is that **partners** provided most revenue in this area.

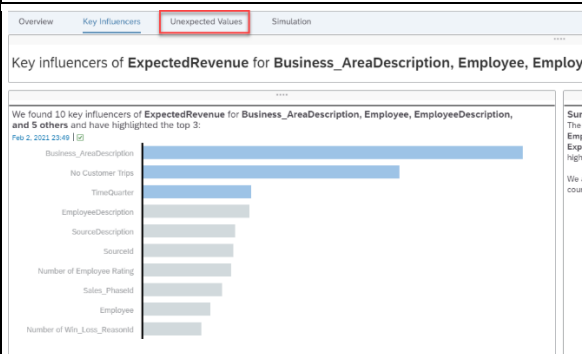
This insight indicates that you should further invest the relationship with your partners to work on the Fortune500 customers deals.

You should also re-evaluate and improve your collaborations with partners to work better on the smaller customers deals.



Back on the main screen –

Click on the 'Unexpected Values' page



Analytics Cloud can also show you unexpected values

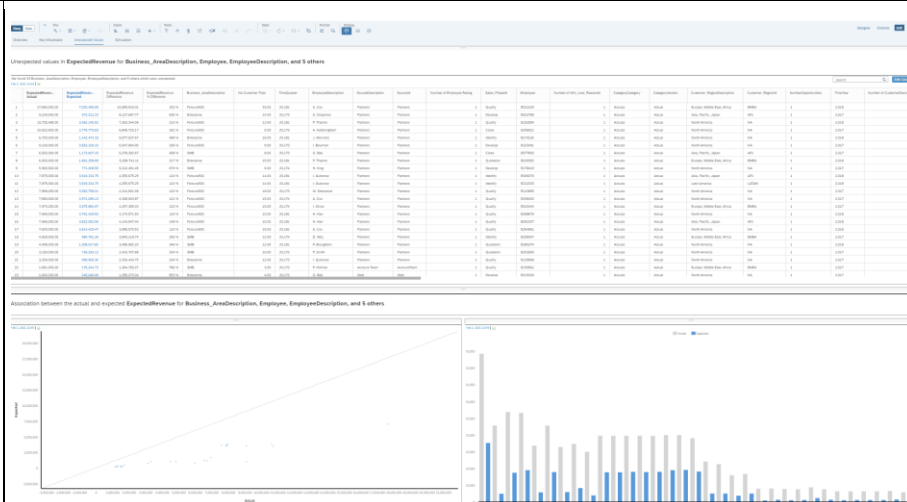
These values show you the deals that are not matched up with the predicted value.

This is based on the associated influencers, such as

What the employee rating is,

What the customer is purchasing,

what the customer region is, etc.



A smart way to leverage this is to look at some specific data points on the Scatter Chart below

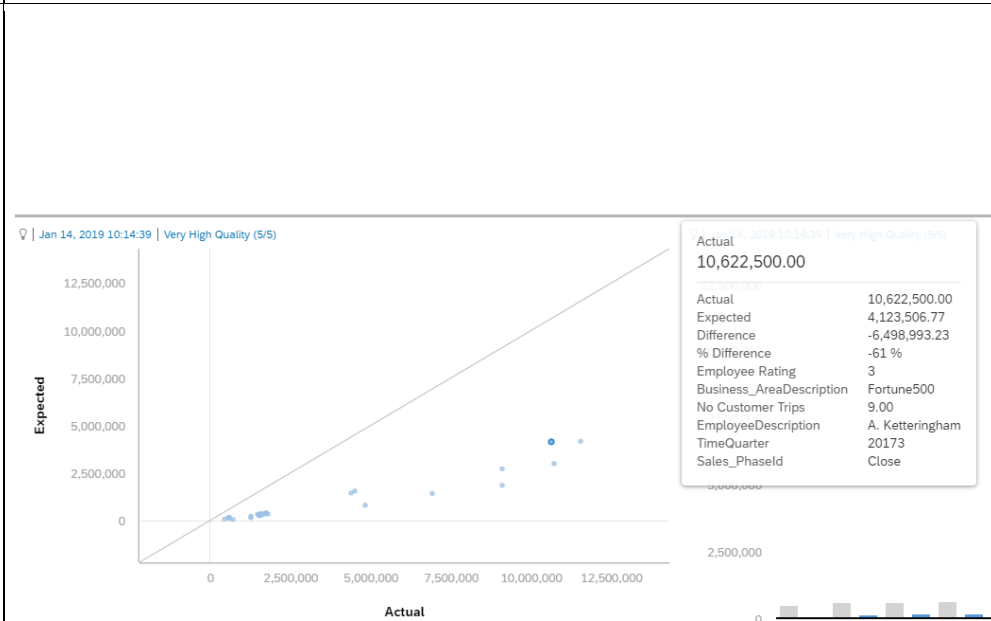
You can select a specific data point on the chart to have a more detailed view.

You can see the actual value is much higher than the predicted value.

You should follow up with the responsible AE to find out what they were doing differently that led to the success of this deal.

You could share these best practices among our sales team drive our business and lead to bigger success.

You might also want to leverage this information to see if there is an inexperienced rep in a very large deal who might need some assistance



Click the **Simulation** page

Overview Key Influencers Unexpected Values Simulation								
Unexpected values in ExpectedRevenue for Business_AreaDescription, Employee, EmployeeDescription, and 5 others								
We found 33 Business_AreaDescription, Employee, EmployeeDescription, and 5 others which were unexpected. Feb 2, 2021 23:49 92								
	ExpectedReven... Actual	ExpectedReven... Expected	ExpectedRevenue Difference	ExpectedRevenue % Difference	Business_AreaDescription	No Customer Trips	TimeQuarter	EmployeeDescription
1	17,680,000.00	7,020,456.99	10,659,543.01	152 %	Fortune500	33.00	20.181	A. Cox
2	9,100,000.00	972,312.23	8,127,687.77	836 %	Enterprise	14.00	20.173	A. Chapman
3	10,725,485.00	3,462,140.92	7,263,344.08	210 %	Fortune500	12.00	20.181	P. Thamer
4	10,622,500.00	3,776,779.83	6,845,720.17	181 %	Fortune500	9.00	20.173	A. Ketteringham
5	6,720,000.00	1,142,472.33	5,577,527.67	488 %	Enterprise	16.00	20.181	J. Morrison

You can also do simulation.

Simulation allows you to plug in new variables and based on that historical model, we will generate a predicted deal size.

Using the options under Influencers you can perform such a simulation.

Watch the initial value change as you change the values within the Influencers.

The screenshot displays a software interface for simulating business revenue. The top navigation bar includes 'Overview', 'Key Influencers', 'Unexpected Values', and 'Simulation'. The main heading reads: 'How my influencers have an impact on ExpectedRevenue for Business_AreaDescription, Employee, EmployeeDescription, and 5 others'.

Initial State (Top):

- Expected Revenue: 3,771,478.5
- Formula: $\text{Expected Revenue for Business_AreaDescription, Employee, EmployeeDescription, and 5 others} = 3,771,478.53$, positively influenced mainly by No Customer Trips (42.5) + Number of Employee Rating (3)
- Influencers: Business_AreaDescription (Enterprise), No Customer Trips (42.50), TimeQuarter (20172), EmployeeDescription (A. Chapman)
- Impact: Enterprise (Weakly Negative), No Customer Trips (Strongly Positive), TimeQuarter (Negative), EmployeeDescription (Weakly Negative)

Simulation Process (Middle):

A 'Welcome!' pop-up window explains the simulation view. Below it, a 'Learn more' button and a 'Get it' button (highlighted with a red box) are visible.

Simulated State (Bottom):

- Expected Revenue: 3,529,686.44 (highlighted with a red box)
- Formula: $\text{Expected Revenue for Business_AreaDescription, Employee, EmployeeDescription, and 5 others} = 3,529,686.44$, positively influenced mainly by No Customer Trips (50.8) + Number of Employee Rating (3)
- Influencers: Business_AreaDescription (Enterprise), No Customer Trips (50.8), TimeQuarter (20172), Number of MaterialId (4), SourceId (AccountTeam)
- Impact: Enterprise (Weakly Negative), No Customer Trips (Strongly Positive), TimeQuarter (Negative), Number of MaterialId (Positive), SourceId (Weakly Negative)

The 'Simulation' tab is active, and the 'Simulate' button is visible at the bottom left.

Your company recently have opened an office and you know one of your sales associates (Williams) is working on a very large deal. The customer that Williams is working with is a Fortune500 customer and source of the deal is campaign. As you run the simulation, you can get a better understanding of what the expected revenue might be

On the right hand of the screen, you will see a 'simulation selection' area. From here, you can change the variables to make a different simulation

For **Business_Area Description** select **Fortune500**

For **SourceDescription** select **Campaign**

For **EmployeeDescription** select **B.Williams**

Click Simulate to see the effects of these Influencers changes.

Note the changes in values to the previous screenshot.

Overview

Key Influencers

Unexpected Values

Simulation

Expected ExpectedRevenue for Business_AreaDescription, Employee, EmployeeDescription, and 5 others

Mar 18, 2021 21:04 | 02

3,529,686.44

Expected ExpectedRevenue for Business_AreaDescription, Employee, EmployeeDescription, and 5 others is 3,529,686.44, positively influenced mainly by No Customer Trips [42.5] + Number of Employee Rating [3].

Change the influencer values below, and choose 'Simulate' to see the impact on ExpectedRevenue for Business_AreaDescription, Employee, EmployeeDescription, and 5 others:

Influencers

Business_AreaDescription

Fortune500

Impact

Weakly Negative

Strongly Positive

No Customer Trips

42.50

Impact

Strongly Positive

TimeQuarter

20172

Impact

Negative

Number of MaterialId

4

Impact

Positive

SourceId

AccountTeam

Impact

Weakly Negative

Number of Employee Rating

3

Impact

Strongly Positive

Number of Material_GroupDe...

4

Impact

Strongly Negative

EmployeeDescription

B. Williams

Impact

Weakly Negative

SourceDescription

Campaign

Impact

Weakly Negative

Sales_PhaseId

Close

Impact

Strongly Positive

Simulate

Expected ExpectedRevenue for Business_AreaDescription, Employee, EmployeeDescription, and 5 others

Mar 18, 2021 21:04 | 02

5,710,104.00

Expected ExpectedRevenue for Business_AreaDescription, Employee, EmployeeDescription, and 5 others is 5,710,104.00, positively influenced mainly by No Customer Trips [42.5] + Number of Employee Rating [3].

Change the influencer values below, and choose 'Simulate' to see the impact on ExpectedRevenue for Business_AreaDescription, Employee, EmployeeDescription, and 5 others:

Influencers

Business_AreaDescription

Fortune500

Impact

Strongly Positive

No Customer Trips

42.50

Impact

Strongly Positive

TimeQuarter

20172

Impact

Negative

Number of MaterialId

4

Impact

Positive

SourceId

AccountTeam

Impact

Weakly Negative

Number of Employee Rating

3

Impact

Strongly Positive

Number of Material_GroupDe...

4

Impact

Strongly Negative

EmployeeDescription

B. Williams

Impact

Weakly Negative

SourceDescription

Campaign

Impact

Weakly Negative

Sales_PhaseId

Close

Impact

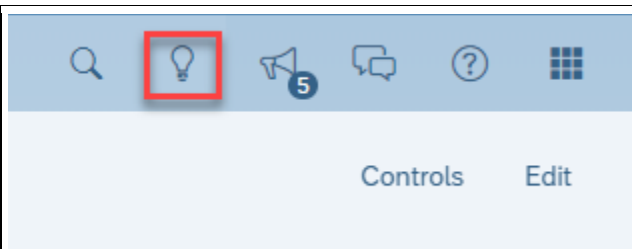
Strongly Positive

Simulate

EXERCISE 3 – SEARCH TO INSIGHT [10 MINUTES]

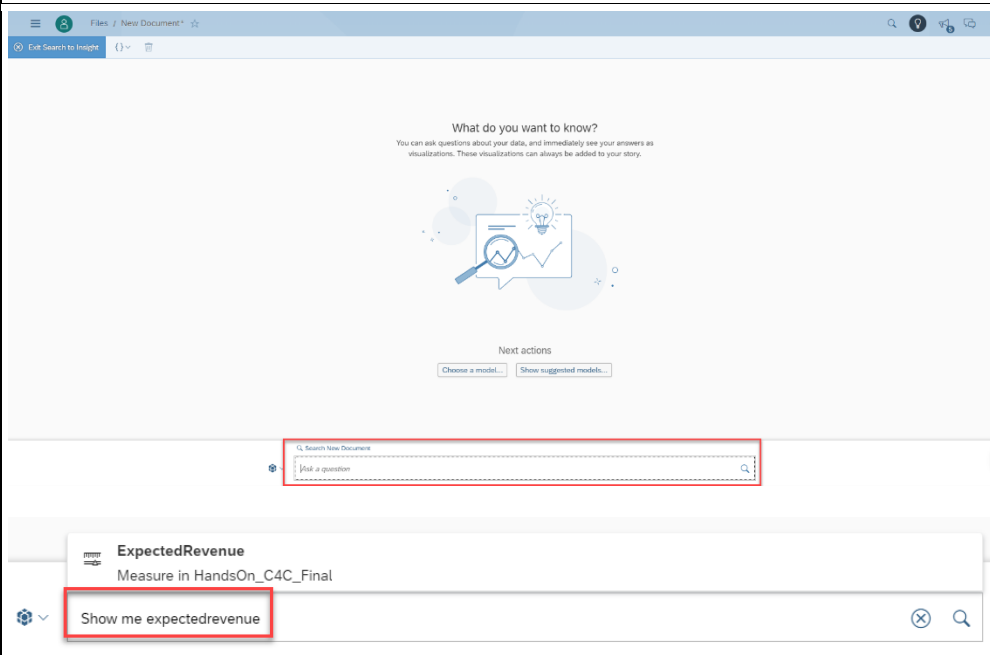
Search to Insight brings conversational artificial intelligence to SAP Analytics Cloud. Now, getting answers from your data is as simple as asking a question in natural language.

Let's first look at the easiest way to create a chart. We can use plain text search to create the report. On the top right of your screen, click the **Light Bulb icon**



You can now use plain text to search your dataset.

Enter 'Show me expectedrevenue'
Click enter



This now returns a KPI of the measure you selected.

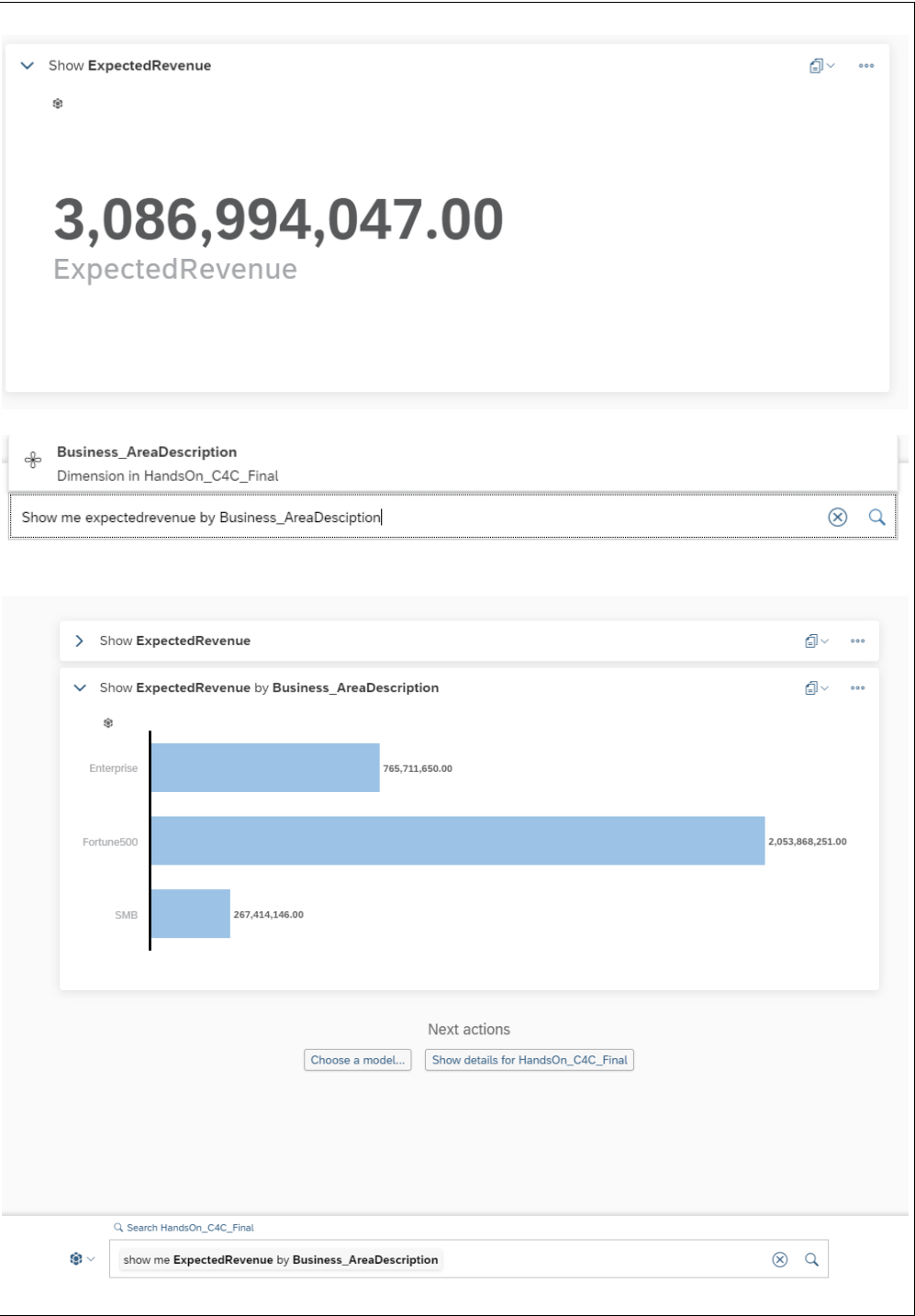
You can further refine this.

Enter:

‘show me ExpectedRevenue by Business_AreaDescription ‘

Click enter

A new KPI is returned.

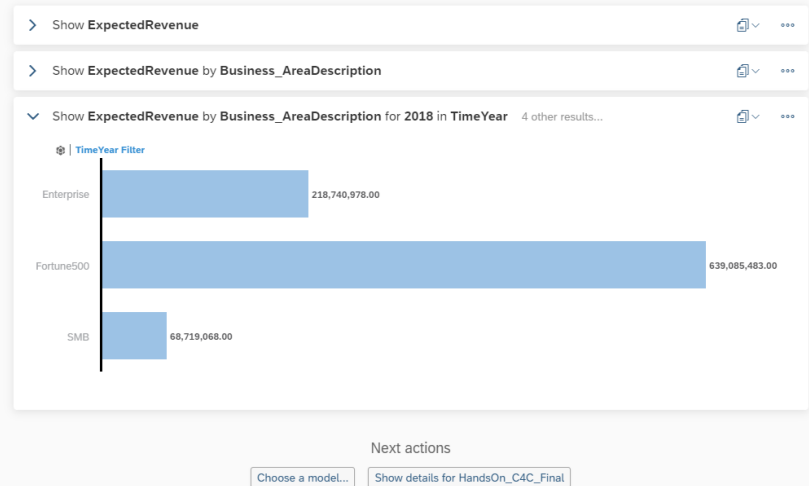


Add a filter on year by adding the year you want.

'show me ExpectedRevenue by Business_AreaDescription for 2018'

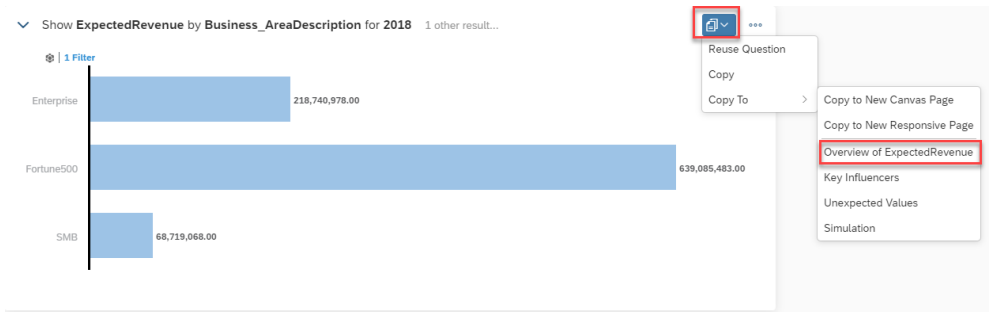
Click enter

A new KPI is returned

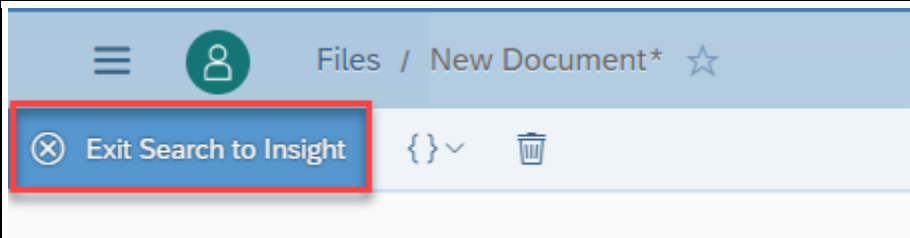


When you are happy with your chart, you can then add it to your story.

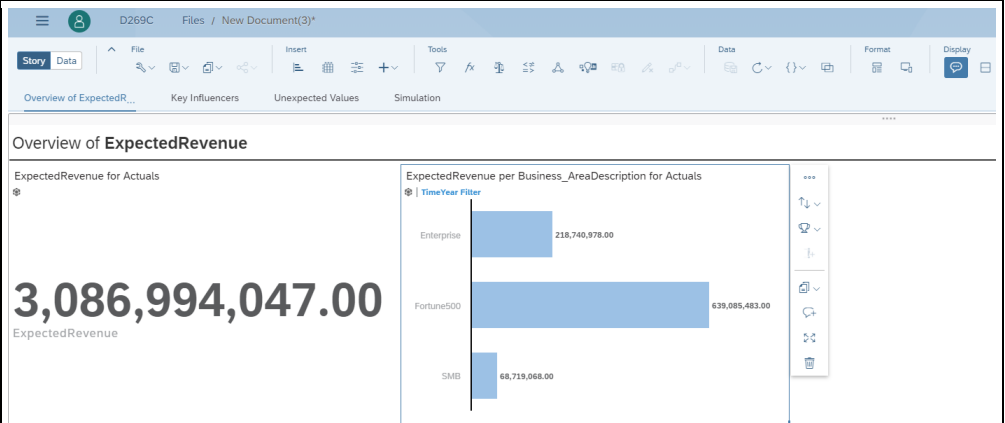
Click the Page Icon,
Then choose **'Copy to'**
Then choose an existing page:
'Overview of ExpectedRevenue'



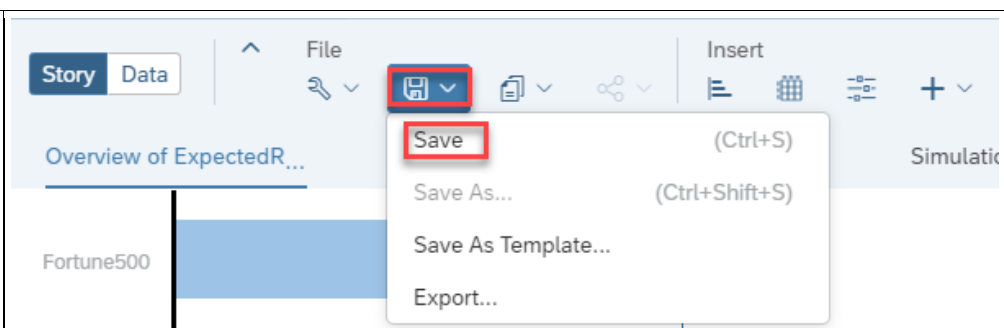
You can now close 'Search to Insight' by clicking on the top left



You have now built a chart using plain text



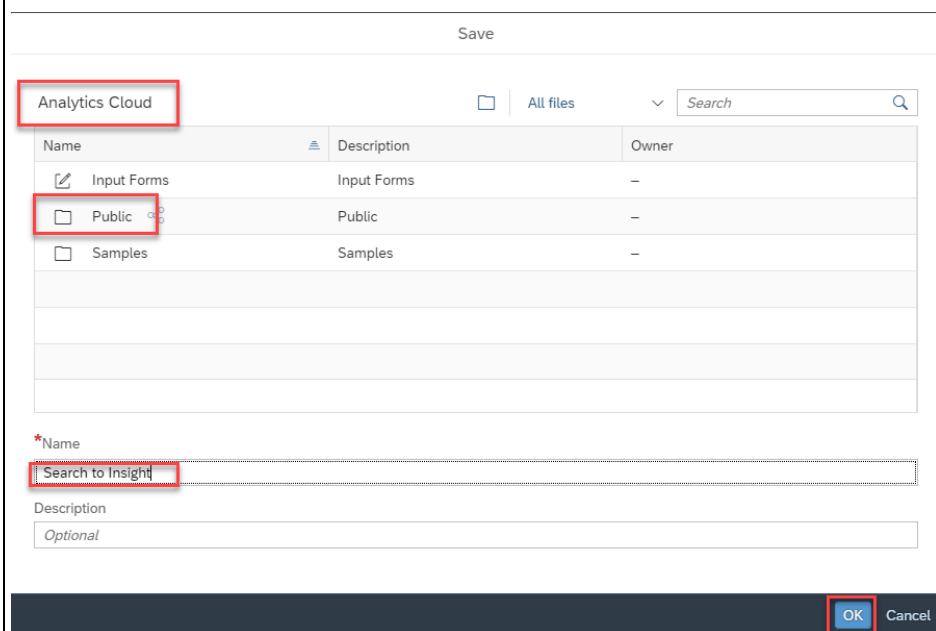
Save your report by clicking File > Save



This will default to your 'Analytics Cloud' folder, which is a private folder that you can use for prototyping and internal work.

Name the report 'Search to Insight' and click OK

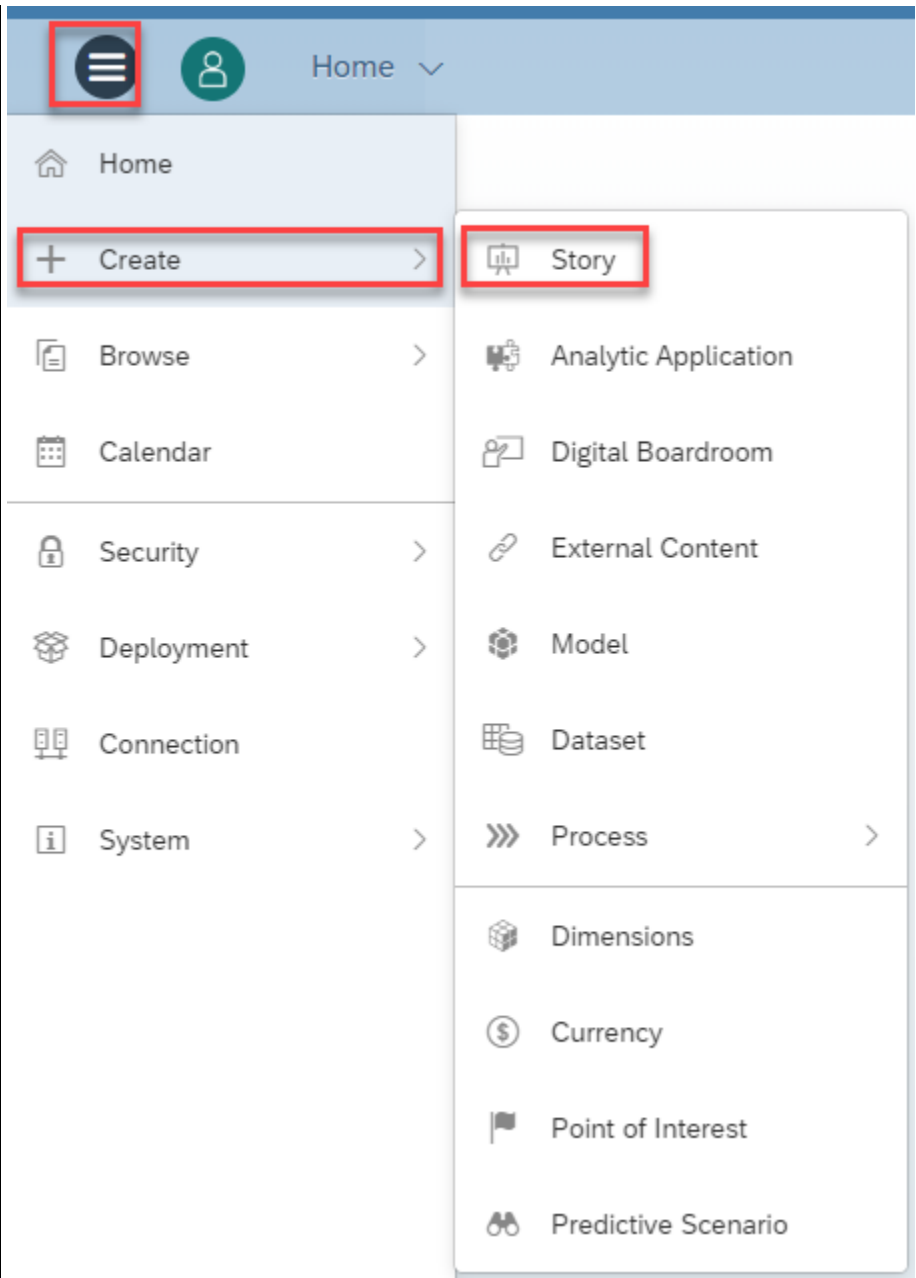
Note – Please don't save under Public Folder as this can be seen by all users of the SAC Tenant.



EXERCISE 4 – REPORT CREATION [45 MINUTES]

In this exercise, you will be using multiple data models to create an interactive report. Each model represents a different data source. We will be leveraging S4 finance data, SuccessFactors HR data and Concur Travel data in our report

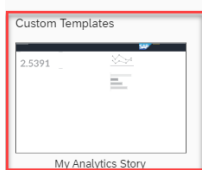
Create a new report
Click the top menu > Create > Story



The screenshot displays the SAP Analytics Cloud user interface. At the top, there is a blue header bar containing a hamburger menu icon (three horizontal lines) enclosed in a red box, a user profile icon, and the text 'Home' with a dropdown arrow. Below the header, the interface is divided into two main vertical panels. The left panel contains a list of navigation options: 'Home' (with a house icon), 'Create' (with a plus icon and a right arrow, highlighted with a red box), 'Browse' (with a folder icon and a right arrow), 'Calendar' (with a calendar icon), 'Security' (with a lock icon and a right arrow), 'Deployment' (with a box icon and a right arrow), 'Connection' (with a server rack icon), and 'System' (with an information icon and a right arrow). The right panel displays a list of report types: 'Story' (with a bar chart icon, highlighted with a red box), 'Analytic Application' (with a puzzle piece icon), 'Digital Boardroom' (with a screen icon), 'External Content' (with a link icon), 'Model' (with a gear icon), 'Dataset' (with a database icon), 'Process' (with a flowchart icon and a right arrow), 'Dimensions' (with a cube icon), 'Currency' (with a dollar sign icon), 'Point of Interest' (with a flag icon), and 'Predictive Scenario' (with a magnifying glass icon).

You will use a Template. The template provides you with an initial layout and color theme. You will use the **'My Analytics Story'** layout to jump start your story

Choose how you'd like to start your story.



SAP Analytics Templates



Boardroom



Presentation - Responsive



Report

[See more...](#)



Access & Explore Data

Bring in data from CSV, Excel, and other datasources to explore and create visualizations.



Run a Smart Discovery

Explore your data using machine learning algorithms to discover key influencers, unexpected values and more.



Add a Responsive Page

Create flexible dashboards that can be presented on any device or screen size.



Add a Canvas Page

Create pixel perfect reports or presentations.



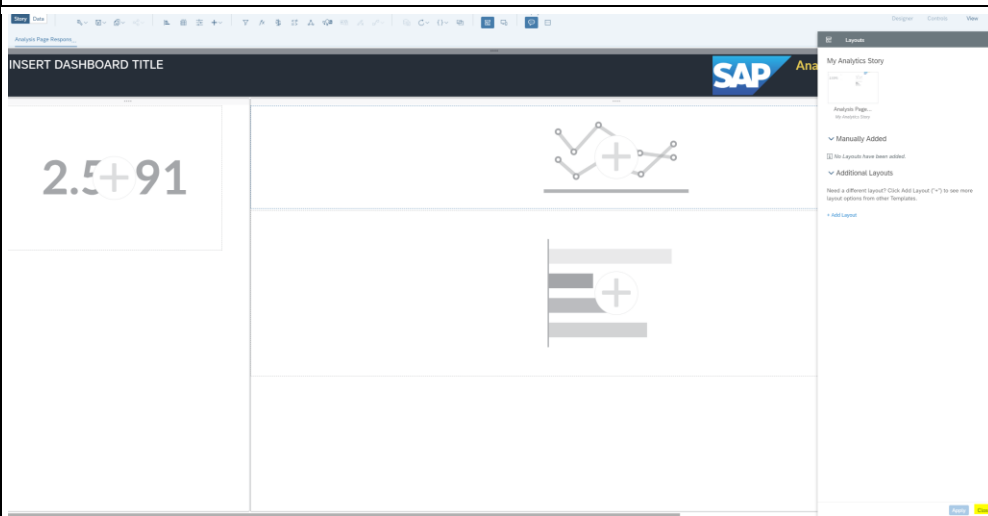
Add a Grid Page

A traditional spreadsheet page giving you the full look of your

Later on, You can also save your own reports as templates for reuse. This way, you can define a corporate template for consistent formatting and color schemes. These show up under 'Manual Templates'

You can also download new templates from the 'additional templates' link

You can **Close** the layouts pane.



The design we are using is a responsive design. What this means is that the design will shift and change for different devices, such as phones and tablets.

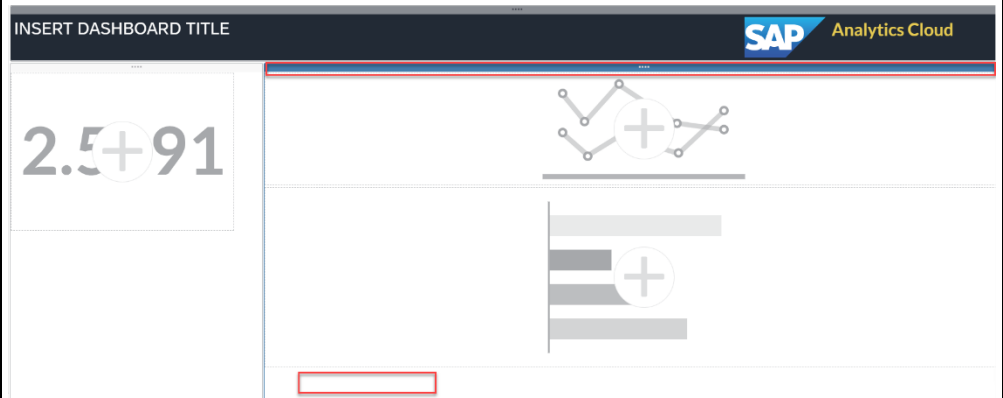
The responsive design has different lanes to allow the report designer to guide the tool as to how to reflow the story.

As our first step, we will add a new map to the story.

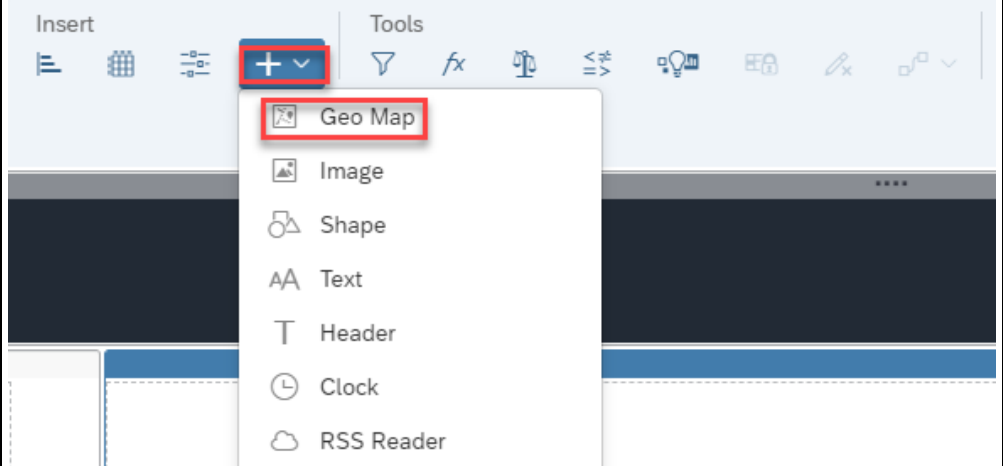
One catch here is that the tool will put that geo map in whatever lane has context. By default this is the top lane. So, first, click on empty white space in the big bottom right lane. This gives that lane the current context and tells the tool we are working with that lane.

You'll know this has worked because **the top bar of the lane is now blue**

In the screenshot, the rightmost lane has context and the other lanes do not.

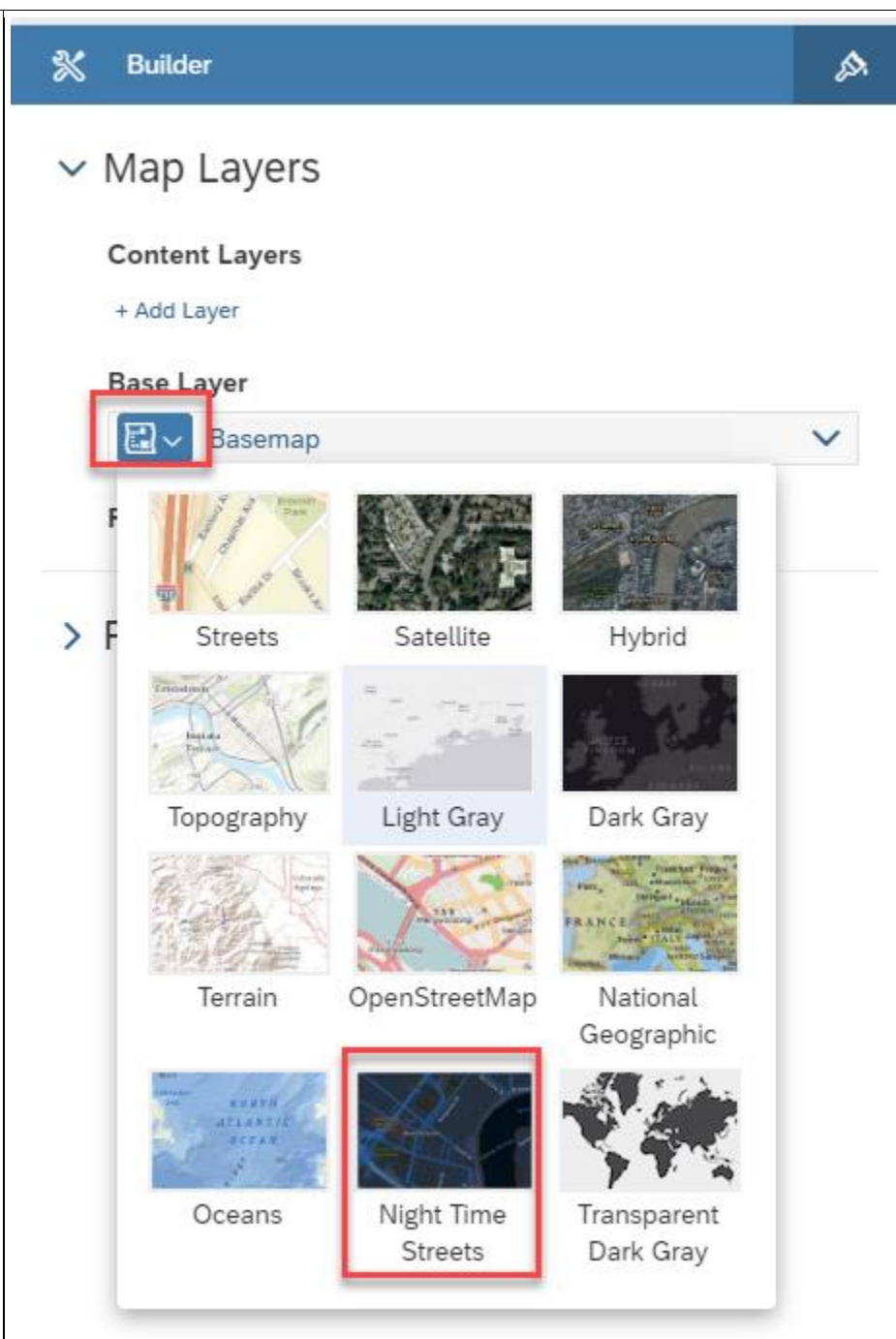


Add a map control by clicking on the + under 'insert' and selecting **Geo map**

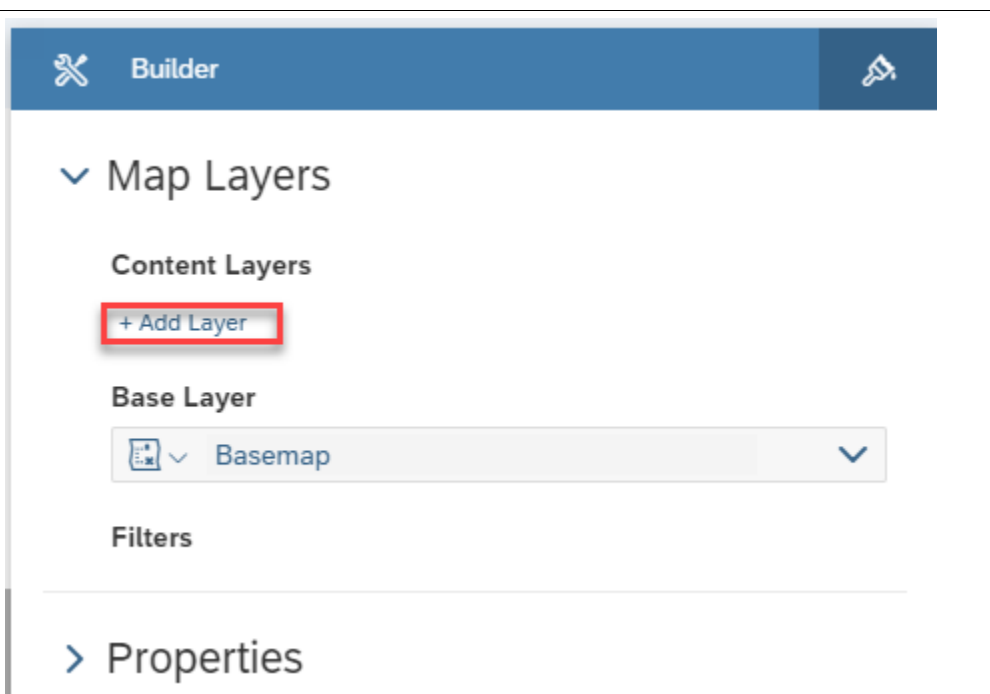


SAP Analytics Cloud provides native ESRI integration without requiring additional licensing. There are several map themes to match your desired level of detail and design.

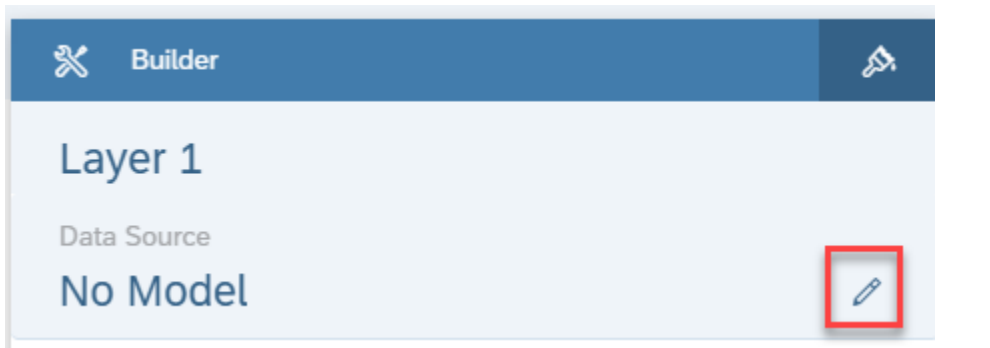
Under '**Base Layer**' change the map look to **Night Time Streets**



Under '**Content Layers**' click + **Add Layer**

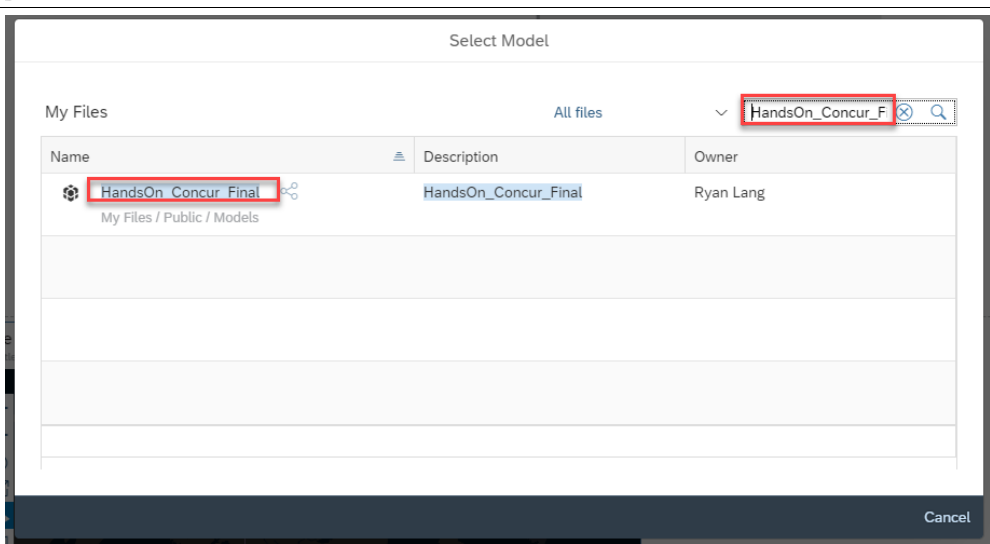


First set the model for your first layer. Click the **Pencil** next to **No Model**



Find the model '**HandsOn_Concur_Final**'. You can search by keyword in the 'name' field
Click on HandsOn_Concur_Final to select it.

Note that the optional modelling exercise at the end of this book has you create this model. If you did that, you could use your own Concur model here.



Change the **Layer Type** to '**Flow Layer**'

Layer Type

 Bubble Layer

 Point of Interest Layer

 Heat Map Layer

 Choropleth / Drill Layer

 Feature Layer

 **Flow Layer**

Set the measures and dimensions as follows:

Origin Location = OriginLocation

Destination Location = DestLocation

Origin Location

Search

DestLocation

OriginLocation

Destination Location

Search

DestLocation

OriginLocation

Flow Color = Count

Flow Color

+ Add Measure

Flow Color

Search

✓ CALCULATIONS

+ Click to Create a New Calculation

✓ MEASURES

Carbon_Footprint

Count

LAT_Dest

LAT_Origin

LONG_Dest

LONG_Origin

Flow Size = Carbon Footprint

Flow Size

+ Add Measure

Flow Size

Search

✓ CALCULATIONS

+ Click to Create a New Calculation

✓ MEASURES

Carbon_Footprint

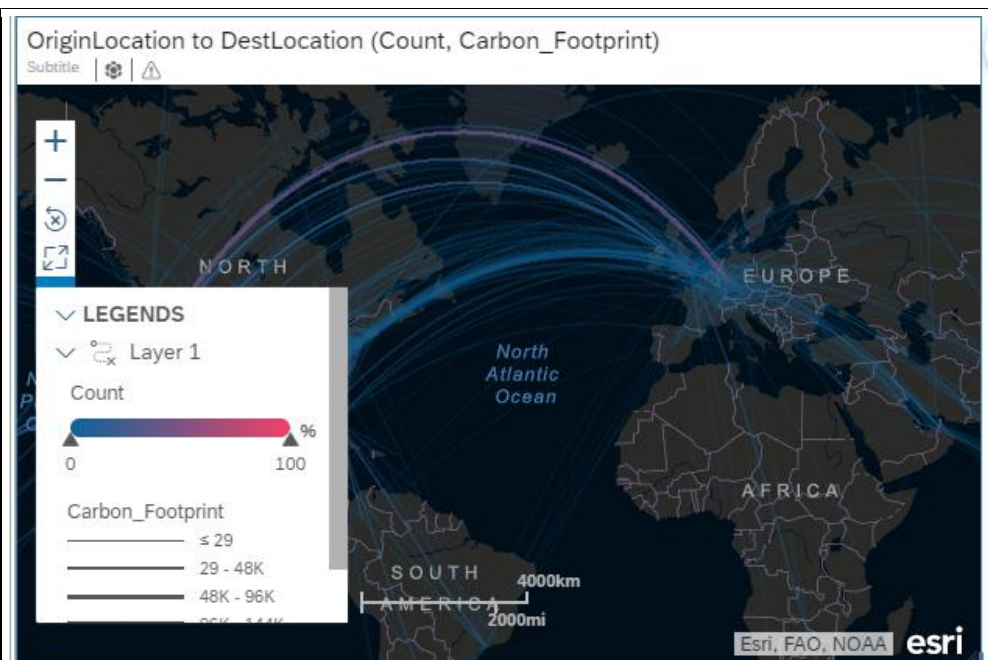
Count

LAT_Dest

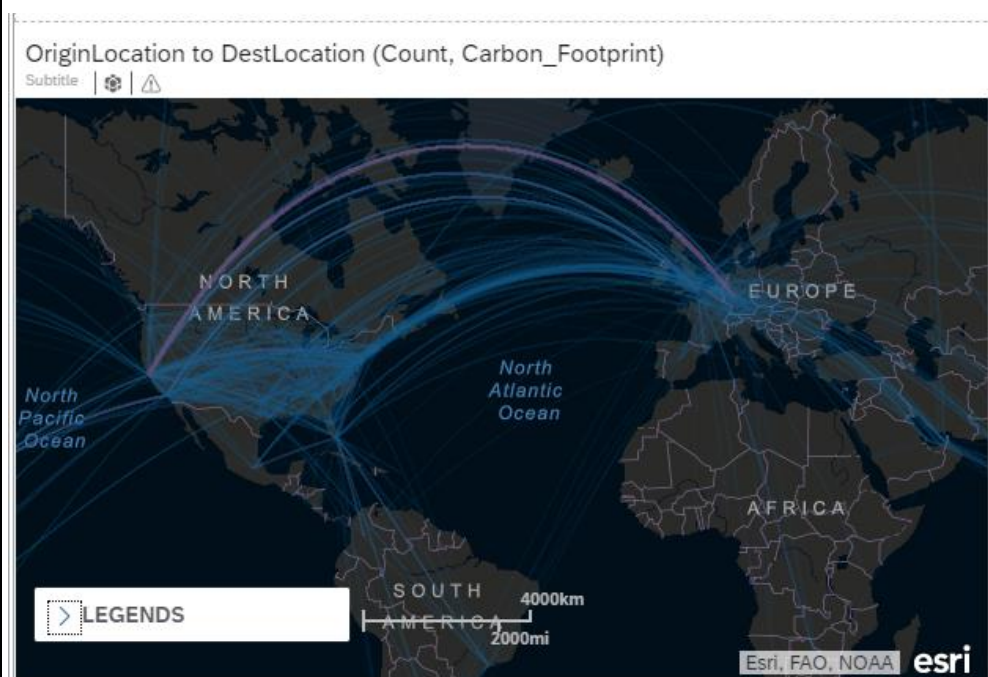
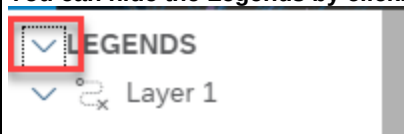
LAT_Origin

Your chart should look like this.

The chart shows that SFO to Frankfurt is one of our most common flights



You can hide the Legends by clicking on the dropdown arrow beside LEGENDS:

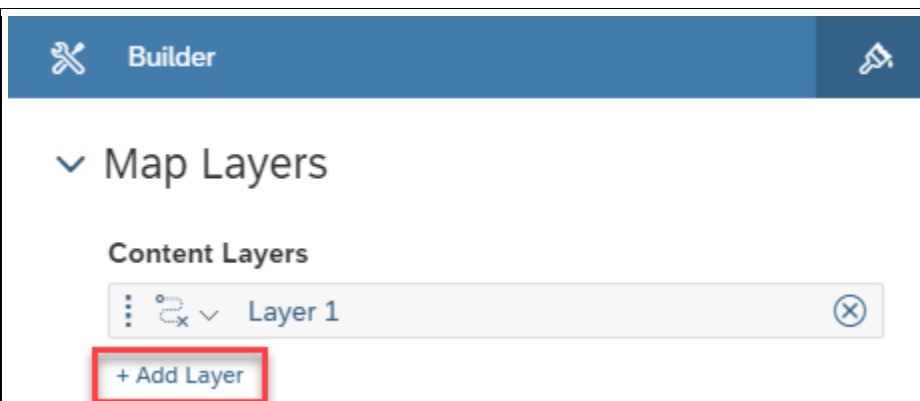


Click **OK** on the bottom of your Layer 1 Design Tab

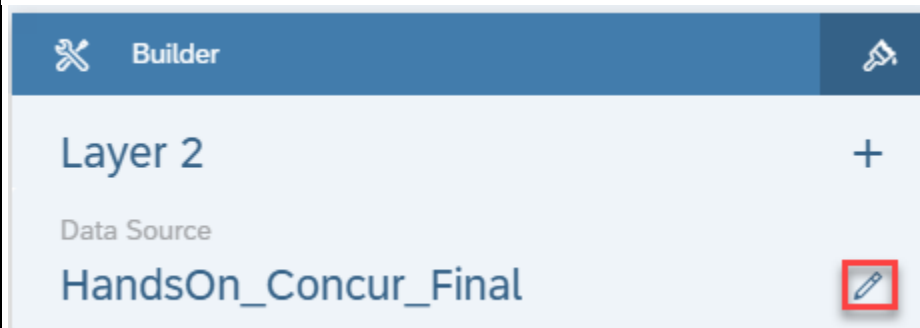
The follow screen is returned

Add a second Layer to your Map. Layers can be diferent views form the same dataset or completely different data sets.

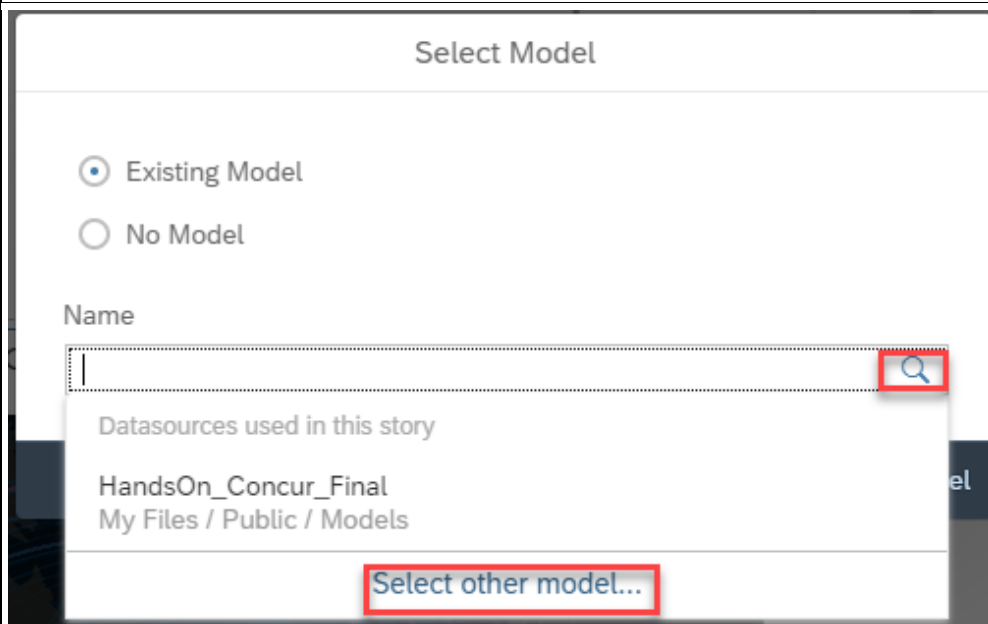
Click '+ Add Layer'



For this layer we are going to change the datasource. Analytics Cloud defaults to your last used dataset, but we can override this. Click the **Pencil** icon next to your dataset



Click 'select other model'

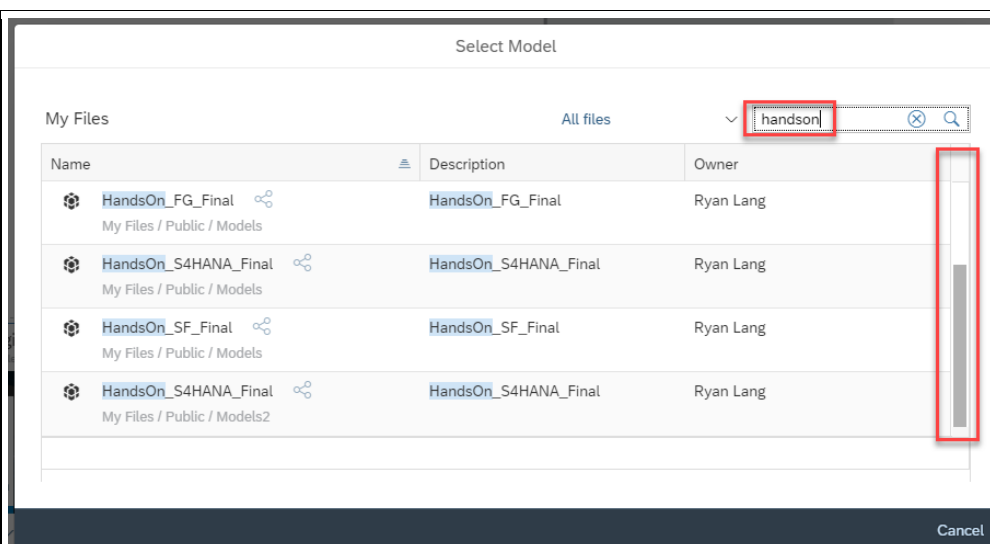


Search for '**handson**' and find the **HandsOn_SF_Final** model, which has been created ahead of time for you.

This model contains HR data about our full time employees, such as where they work.

You may need to use the scroll down to find this model.

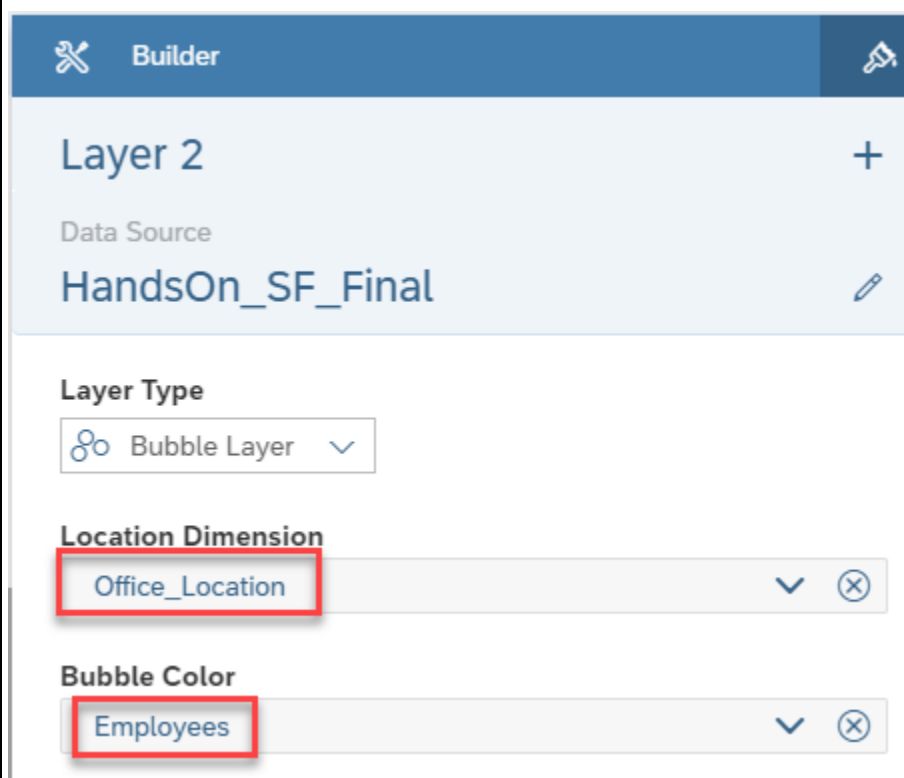
Once you have found it, click on it to Select it.



Set the measures and dimension as described here:

Location Dimension = Office_Location

Bubble Color = Employees



To change the Color Palette – Click on the dropdown menu option for Bubble Color -

Set the **Palette** to dark to light **continuous** gradient, then click the



icon to switch the gradient.

This will show largers offices as darker spots on the map.

Click 'OK'

Bubble Color

Employees



Bubble Color

Employees

Palette:

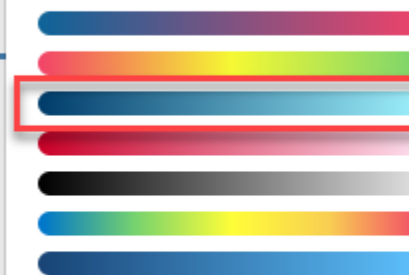


Opacity

Continuous

80%

Ranges:



Sequential

Diverging

Bubble Size



You can set the color theme for this map by clicking on the **paint** icon on the far right of the screen.

Designer

Controls

View



Builder



Map Layers

Content Layers

Layer 2



Layer 1



+ Add Layer

Base Layer

Basemap



Under Control Styling select '**Dark**' as the Theme

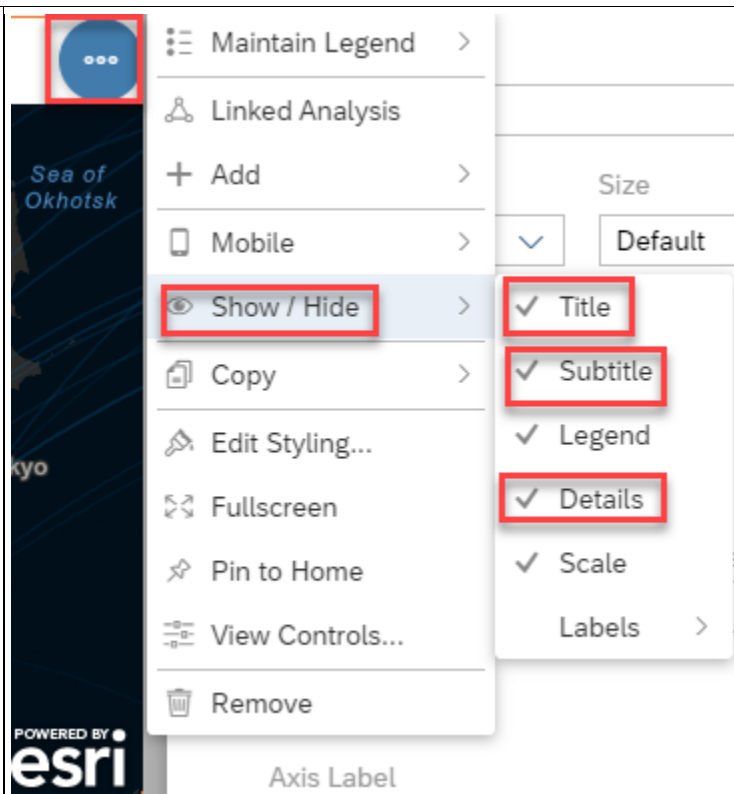
The image shows a software interface for styling a 'Geo Map' widget. At the top, there are tabs for 'Designer', 'Controls', and 'View'. Below these is a 'Styling' tab with a paintbrush icon. The main area is titled 'Show Styling Options For Geo Map'. It contains two expandable sections: 'Widget' and 'Control Styling'. Under 'Widget', there is a 'Background Color' dropdown with a color selection icon and a 'Border' dropdown currently set to 'No Border'. Under 'Control Styling', there is a 'Theme' section with two radio buttons: 'Light' (which is selected) and 'Dark' (which is highlighted with a red rectangular box). Below the theme section is an 'Opacity' slider ranging from 10 to 100, with the current value set to 100%.

Resize the map to fill the width of the right lane.

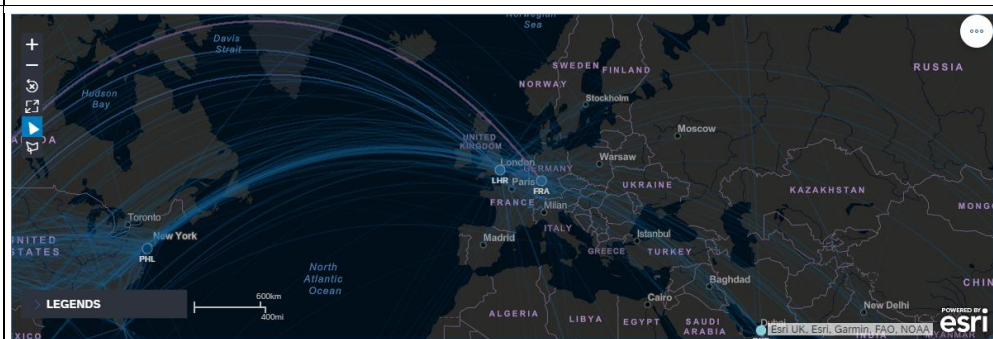
You resize just like in windows, move your mouse to the bottom right of the chart (the mouse will change to two arrows) then click and drag

Click on the More Actions Icon –
Click on Show/Hide –
Deselect the following:

Title
Subtitle
Details



Your Geo-Map should look like this.



Next we will look at how to create some KPI charts.

Click the large + icon on your KPI tiles which are located on the top left of your Story Page.

Ensure that your data source for this KPI is the Concur dataset. If it is not, change it using the Pencil Icon.

You will see that the story highlights models you are already using, so you should not need to search for your model

Select **HandsOn_Concur_Final** and click **OK**

The screenshot shows the Tableau Story Page interface. At the top, there is a header bar with the text "INSERT DASHBOARD TITLE" and the Tableau logo. Below the header, there are two KPI tiles. The first tile on the left displays the value "2.5 + 91" and has a red box around a large "+" icon. The second tile on the right displays a bar chart and also has a red box around a large "+" icon. Below the KPI tiles, there is a section titled "Data Source" with the text "HandsOn_SF_Final" and a red box around a pencil icon. Below this, there is a section titled "Select Model" with a search bar and a list of data sources. The list includes "HandsOn_Concur_Final" and "HandsOn_SF_Final", both with the path "My Files / Public / Models". The "HandsOn_Concur_Final" entry is highlighted with a red box. At the bottom of the "Select Model" section, there is a link that says "Select other model..."

Go to the **Primary Values**

Click '**+ Add Measure**'

Select '**Carbon_Footprint**' from the dropdown list.

You may have to click outside the dropdown to close the dropdown selection.

Data Source
HandsOn_Concur_Final
[+ Add Linked Models](#)

▼ Chart Structure

Comparison


Trend


Distribution


Correlation


Indicator


More


Measures

Primary Values

[+ Add Measure](#)

Measures

Primary Values

Search

▼

▼ CALCULATIONS

[+ Create Calculation...](#)

▼ MEASURES

☒ Carbon_Footprint

☐ Count

☐ LAT_Dest

☐ LAT-Origin

☐ LONG_Dest

You will see our chart has been updated with the values Carbon_Footprint. The value display is very large so lets work on some additional formatting for this KPI chart. Click on the formatting button	
Click on the formatting button	

Scroll down to the see 'Number Format' section.

Change
Scale to Million

Scale format to 'k, m, bn'

Play around a bit and format the number how you would like.

Font

Text Selection

All Text

Font: Default

Size: Default

Color:

Style

B *I* U $\frac{T}{T}$

Number Format

Measure Selection

All

Scale

Million

Scale Format

k, m, bn

Data Label

☒ Show Currency and Unit

☒ Show Scale

On the Chart itself – Click on the More Actions Icon '...'

Click on **Show/Hide**

Remove the **Chart Title** by deselecting it.

in m

4.35 m

Carbon_Footprint

More Actions Icon '...'

- Linked Analysis
- Compare To
- Add Smart Insights
- Add
- Mobile
- Show/Hide**
- Collapse Title
- Copy
- Export
- Edit Styling...
- Fullscreen
- Pin to Home
- View Controls...
- Remove

Chart Title

- ☒ Subtitle
- Chart Details
- ☒ Primary Values
- ☒ Primary Value Labels
- ☒ Secondary Values
- ☒ Secondary Value Labels
- Footer

Your chart should now look like this.

in m

4.35 m

Carbon_Footprint

Self Guided Step:

Using the steps you used to create your another KPI.

Create a Travel Spend KPI below the first KPI

Select the first KPI chart.
Click on More Actions '...'

Click on **Copy – Duplicate**

This will then copy the chart below the first chart.

Key details:

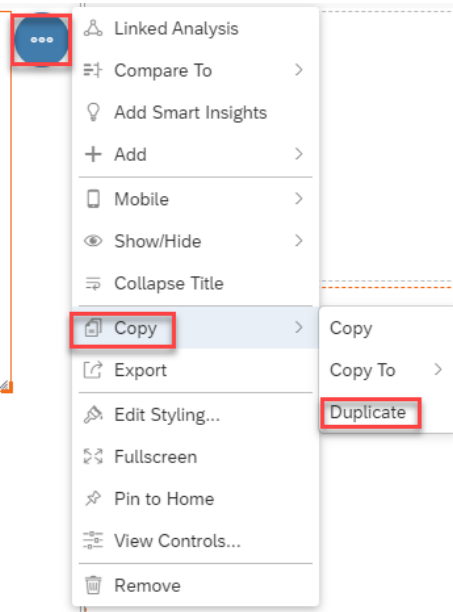
You can duplicate the existing KPI using the duplicate button

The Ticket_Amount field is what you need to aggregate
Set the scale to millions

in m

4.35 m

Carbon_Footprint



This will then copy the chart below the first chart.

in m

4.35 m

Carbon_Footprint

in m

4.35 m

Carbon_Footprint

Ensure the second chart is selected.

On the designer Tab – Click on **+Add Measure** under **Measure-Primary Values**

Deselect **Carbon_FootPrint** and select **Ticket_Amount**

Click on the **Styling** Section.

Scroll to the **Number Format** section and Set the scale to **Millions**

Measures

Primary Values

⋮ Carbon_Footprint ⊗

+ Add Measure

Measures

Primary Values

⋮ Carbon_Footprint ⊗

Search

- ☐ LAT_Dest
- ☐ LAT_Origin
- ☐ LONG_Dest
- ☐ LONG_Origin
- ☐ Lost_over_Low_Fare_Amount
- ☐ Mileage
- ☒ Ticket_Amount

Builder

Data Source

HandsOn_Concur_Final

+ Add Linked Models

Number Format

Measure Selection

All

Scale

Million

Scale Format

k, m, bn

Your report should now look like this

4.35 m

Carbon_Footprint

Unit

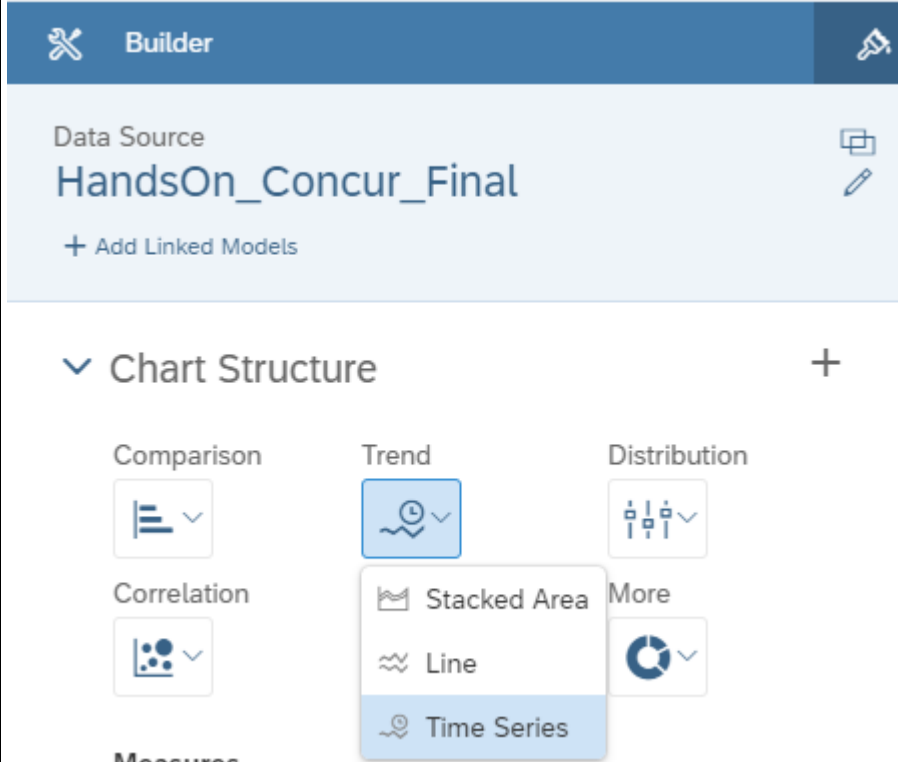
6.95 m

Ticket_Amount



EXERCISE 5 – BLENDING AND LINKED ANALYSIS [20 MINUTES]

We have now spent a significant amount of time building stories on a single data source. This next step takes us into using multiple data sources, blending between those data sources to establish the relationship between them and setting up interactivity rules in the Story. Once this is defined, you'll have a more dynamic and useful Story.

We're going to fill in the template a bit now Click on the big Plus on the line chart template	
Ensure you are using your Concur dataset. Change it if it is not. Change the Chart type to a time series chart.	

Under Measures – Click on ‘**+Add Measure**’

Using the Drop Down –
Select **Ticket_Amount**

Under **Time** to Select ‘**Travel Date**’

Click outside the selection box to
return to the Builder Screen again.

Measures

ⓘ At least 1 Measure required

+ Add Measure

Measures

ⓘ At least 1 Measure required

Search

- ☐ Count
- ☐ LAT_Dest
- ☐ LAT_Origin
- ☐ LONG_Dest
- ☐ LONG_Origin
- ☐ Lost_over_Low_Fare_Amount
- ☐ Mileage
- ☒ **Ticket_Amount**

Time

ⓘ At least 1 Dimension required

+ Add Dimension

Time

ⓘ At least 1 Dimension required

Search

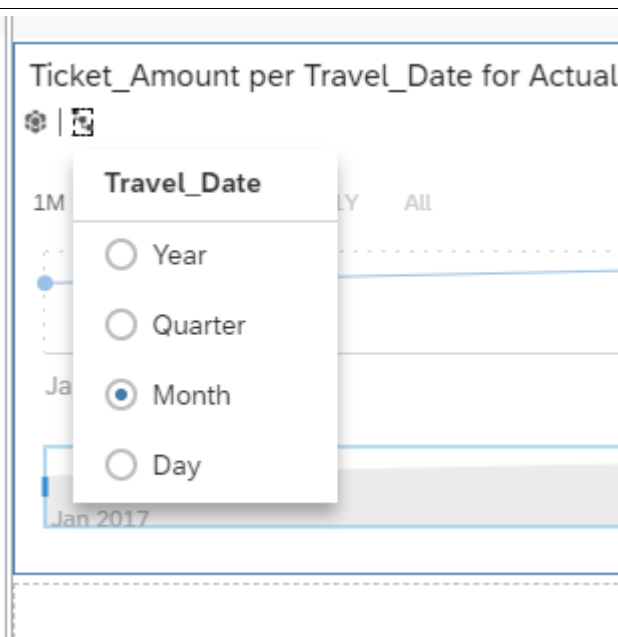
Travel_Date

Expand List...

You can now see ticket spend by time in the Time Series Chart.

You can change the roll up by clicking the hierarchy icon in the chart details and selecting a new roll up.

Change the roll up to **Month**



You can also add a predictive forecast to your time series chart by clicking the '**add forecast**' button on your chart

Click the More Actions icon on the top right of the Chart '...'

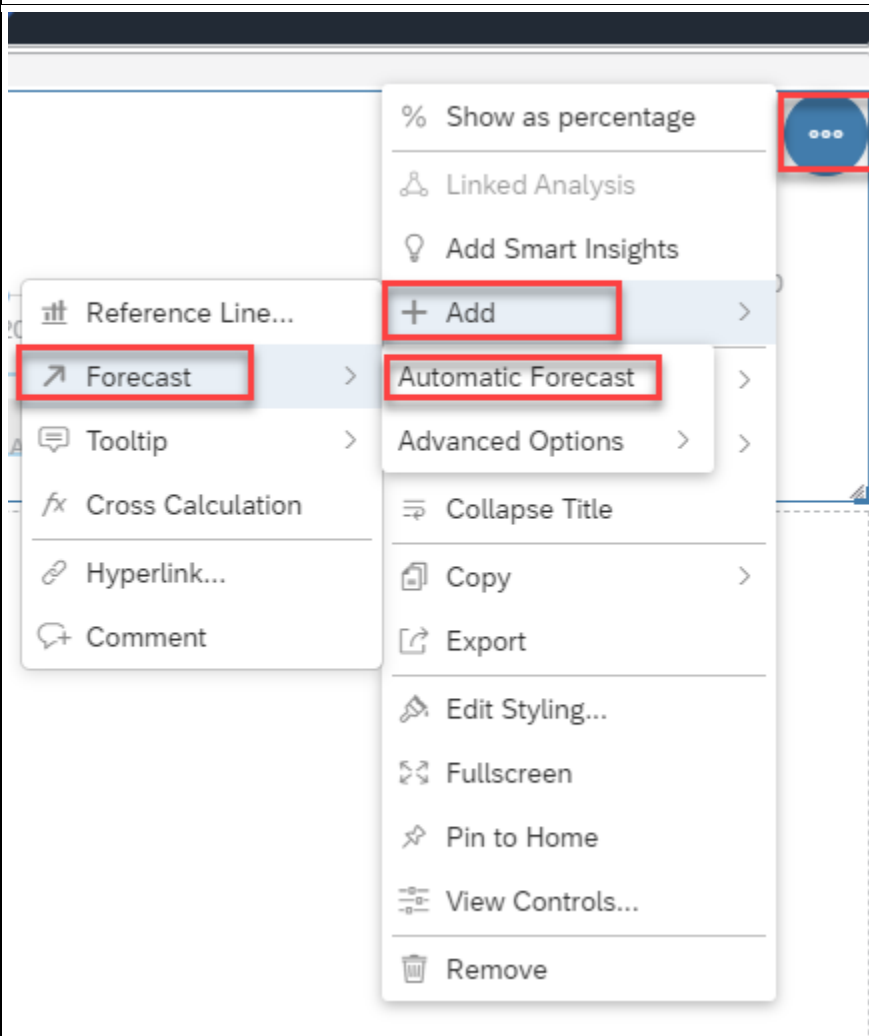
Hover over '+ Add'

Hover Over '**Forecast**'

Select '**Automatic Forecast**'

This forecast performs statistical line fitting to your dataset and then projects values into the future, assuming they keep the same trend.

It will display a dotted line through your dataset which is the overall trend line



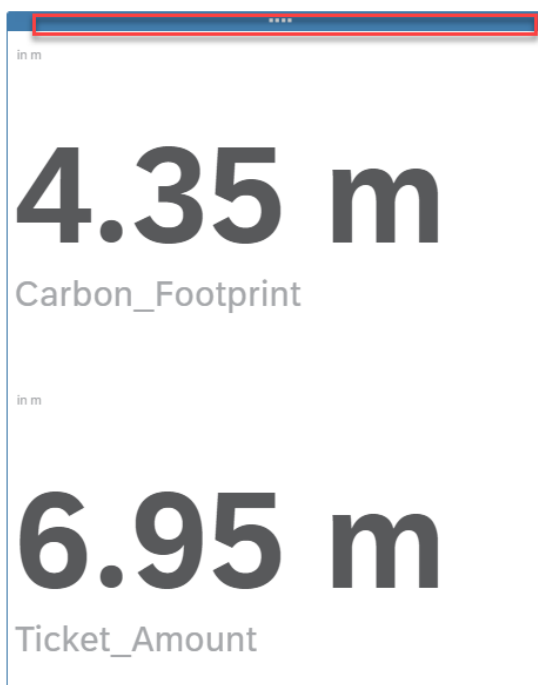
Your chart should look something like this.

Note: Depending on the size of your chart you might not see significant peaks and troughs with respect to your Line Chart – Once you resize the chart by dragging it on the bottom right corner of the chart you will see ups and downs of the data set.



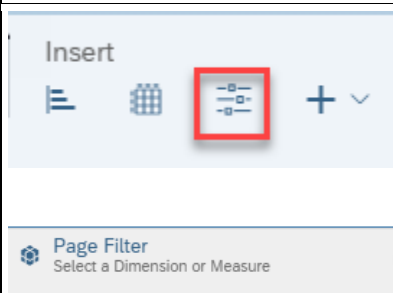
Now, we will add a checkbox selector to the dashboard.

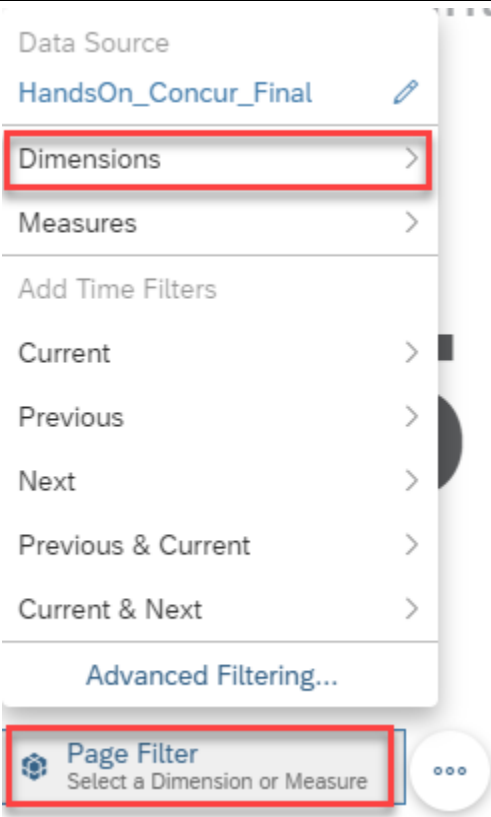
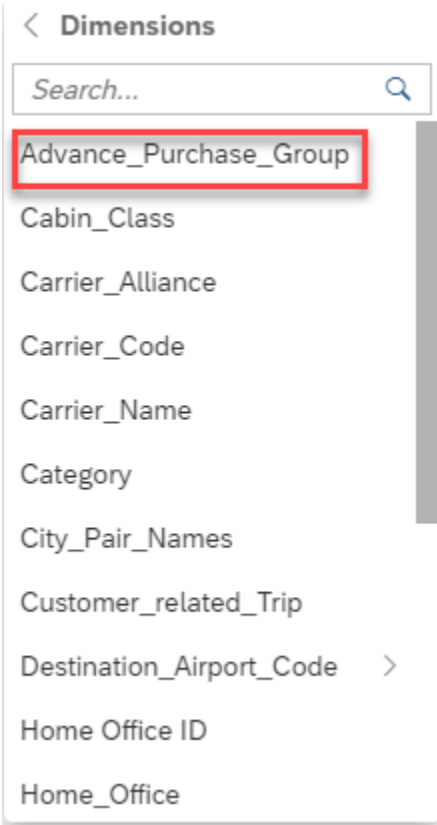
We will First **Click** in the lane with your KPIs. This tells the tool we want to work in this lane. Once you have selected the Lane you will see a blue highlight to indicate that the lane is selected correctly.



Next we will add an input control. Click in Input Control in the Insert section of our Menu

The filter will appear below the already existing KPI charts.



Click on the Filter Select Dimensions	 Data Source HandsOn_Concur_Final Dimensions Measures Add Time Filters Current Previous Next Previous & Current Current & Next Advanced Filtering... Page Filter Select a Dimension or Measure
Select 'Advance Purchase Group'	 < Dimensions Search... Advance_Purchase_Group Cabin_Class Carrier_Alliance Carrier_Code Carrier_Name Category City_Pair_Names Customer_related_Trip Destination_Airport_Code Home Office ID Home_Office

Select '**All members**'

Click on '**OK**'

NOTE:

The checkboxes you select appear in the order you select them. So, if you want the order to be 0-1 days, 2-6 days, 7-13, etc, click each in your desired order, rather than clicking 'all members'

Set Filters for Advance_Purchase_Group

Available Members

Show unbooked members ☐

Exclude selected members ☐

☒ All Members

☒ 0-1 days

☒ 14-20 days

☒ 2-6 days

☒ 7-13 days

☒ >20 days

Selected Members

All Members

[Clear Selection](#)

Settings for Users

☒ Allow viewers to modify selections

Multiple Selection

OK Cancel

Initially the Filter does not show all of the Filter Values so we need to adjust the size of the filter.

Stretch the filter, just like the other controls, to show all values on the report.

Advance_Purchase_G... (All)

Advance_Purchase_Group

☒ All

☒ 0-1 days

☒ 2-6 days

☒ 7-13 days

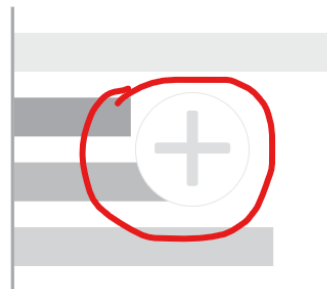
☒ 14-20 days

☒ >20 days

For your final chart you will perform some data blending. Blending allows us to display values from two or more separate datasources.

Here you are going to combine our full time employee data with your contractor data. These datasets are stored in completely different systems but we can combine them in the analytics cloud system

Find your last chart template (below the line chart)
Click the large '+'



Change the datasource to
'HandsOn_SF_Final'

Click on the pencil icon and select
'HandsOn_SF_Final' from the
dropdown options.

Click **'OK'**

Builder

Data Source
HandsOn_Concur_Final
+ Add Linked Models

Select Model

Name

Datasources used in this story

- HandsOn_Concur_Final
My Files / Public / Models
- HandsOn_SF_Final**
My Files / Public / Models

Select other model...

Under Measures –
Click '+ Add Measure'

Select '**Employees**'
from the dropdown list

Click outside the Dropdown list to
return to the builder Tab.

Chart Structure



Comparison



Trend



Distribution



Correlation



Indicator



More



Chart Orientation

Horizontal



Measures

+ Add Measure

Dimensions

+ Add Dimension

Measures

Search



✓ CALCULATIONS

+ Create Calculation...

✓ MEASURES

☐ Age

☒ Employees

☐ Lat

☐ Long

Under Dimensions click
'+Add Dimension'

From the dropdown list select
dimension is **'Org ID'**

Dimensions

+ Add Dimension

Dimensions

Search

- ☐ Manager
- > ☐ OfficeLocation
- ☒ **Org ID**
- ☐ Parent
- ☐ Region

Under Filters click **'+ Add Filters'**

From the dropdown list select
'Current Employment Status'

Color

Measures

Member

Show As

Pattern

Color

Employees

+ Add Dimension/Measure



Filters

Category (1)

Actual

+ Add Filters

Filters

Category (1)

Actual

Search

Category

Current Employment Status

Effective End Date

Effective Start Date (Member)

Effective Start Date (Range)

Event

Set only '**Active**' employees to be counted

Click on '**OK**' to set the Filter

Set Filters for Current Employment Status

Available Members

Show unbooked members ☐

Exclude selected members ☐

☒ **Active**

☐ *Terminated*

Selected Members

Active

[Clear Selection](#)

Settings for Users

☒ Allow viewers to modify selections

☐ Allow viewers to delete filter

☐ Hide in Controls Panel

Multiple Selection

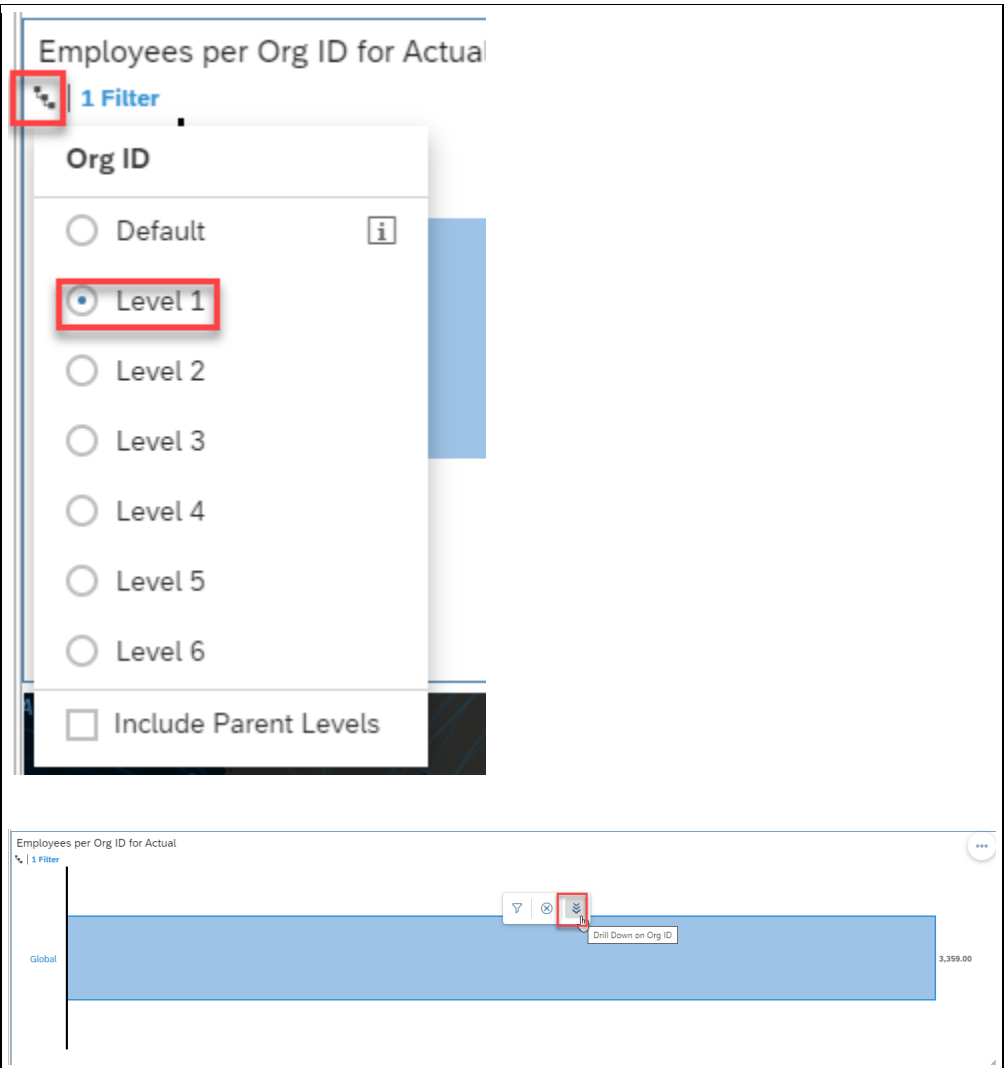
OK Cancel

Your chart should now look like this.



The Org contains a hierarchy. Click on the hierarchy icon and change the Level 1 to any level you want to display.

Click on the chart and select the **'Drill Down'** icon.



Now, we will the report by number of employees. We will sort them from Highest to Lowest.

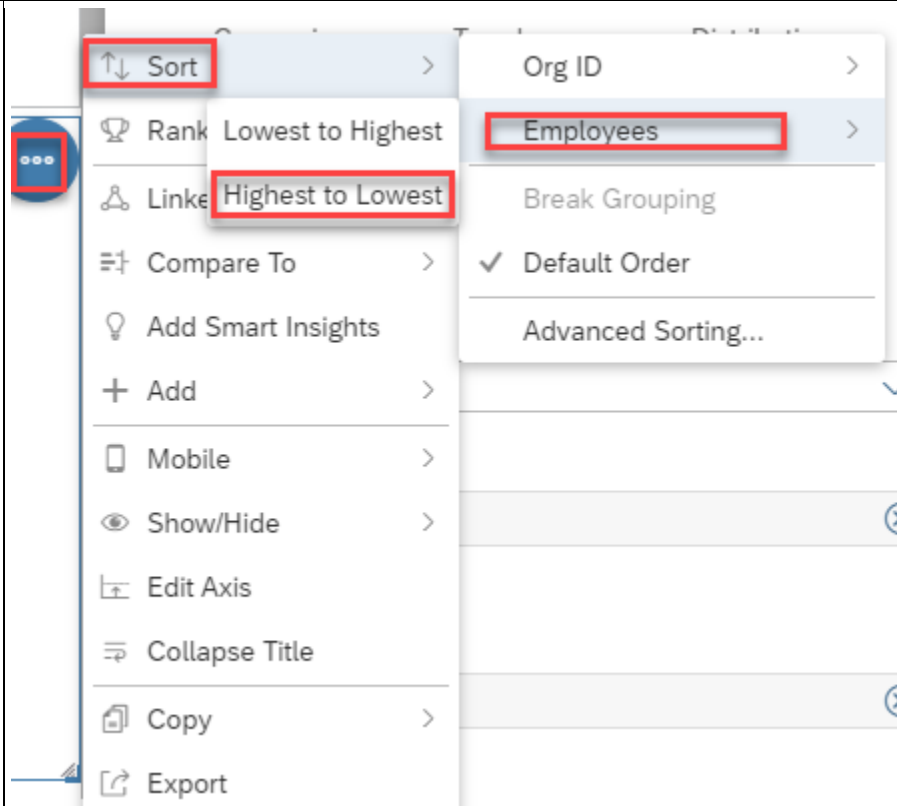
Click on the more actions icon '...'

Click on **'Sort'**

Click **'Employees'**

Click **'Highest to Lowest'**

We will sort them from Highest to Lowest.

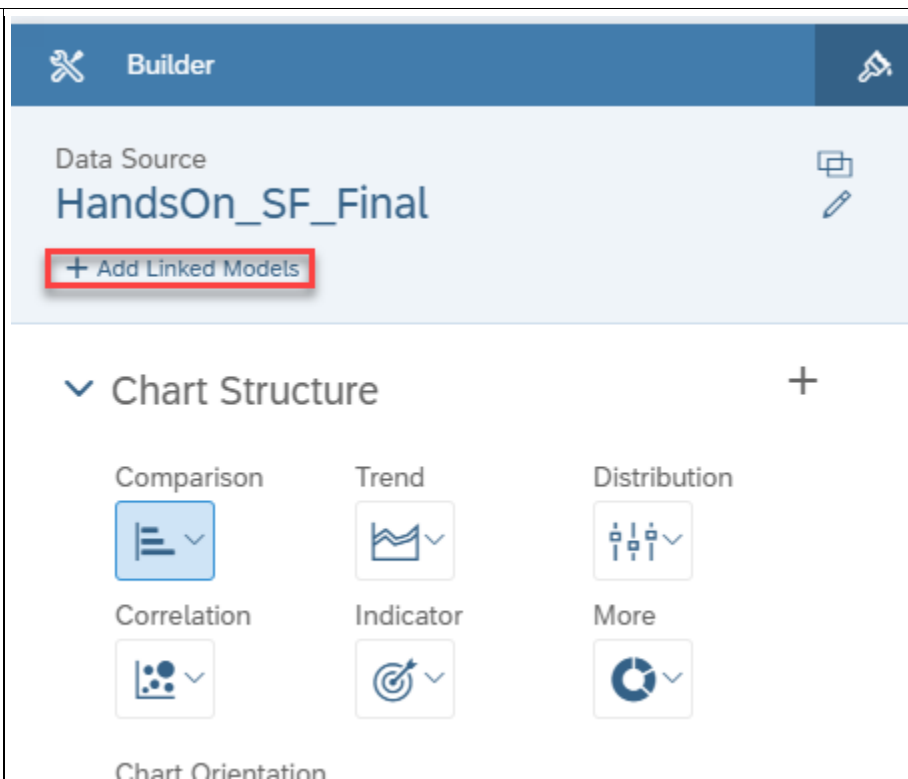


Your Chart should look like this -



Now we will add a second dataset to the chart

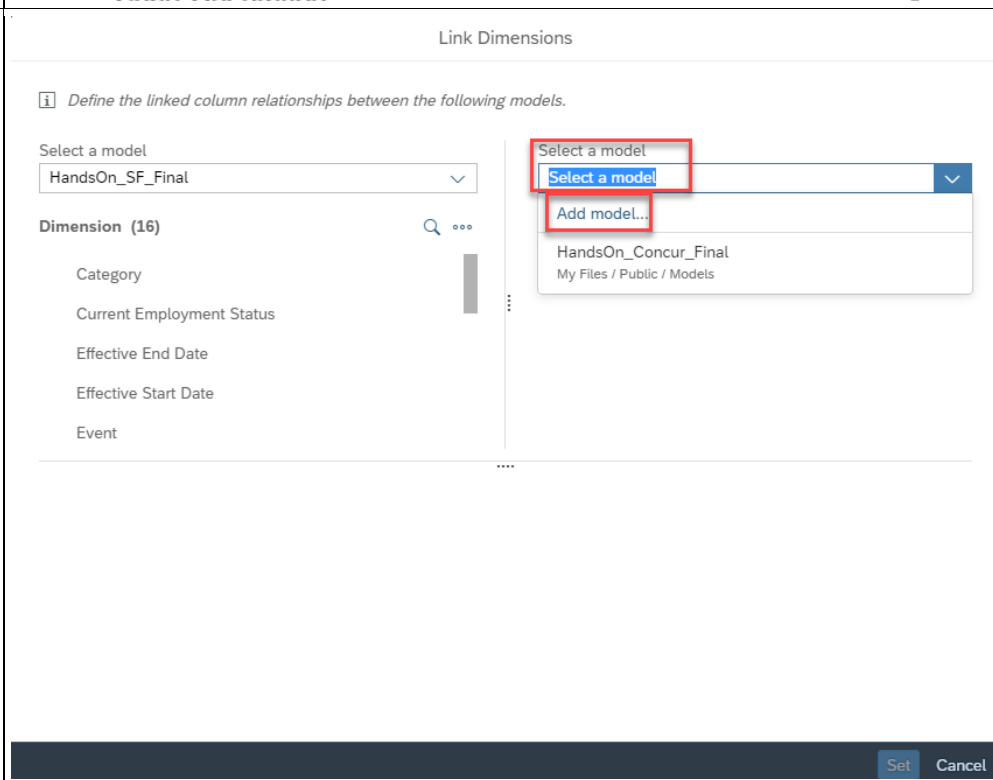
Click on **'+ add Linked Models'**



This brings up an interface where you define how the two datasets are related. You must first add a new model to the Story.

On the right hand side, click **'Select a Model'**

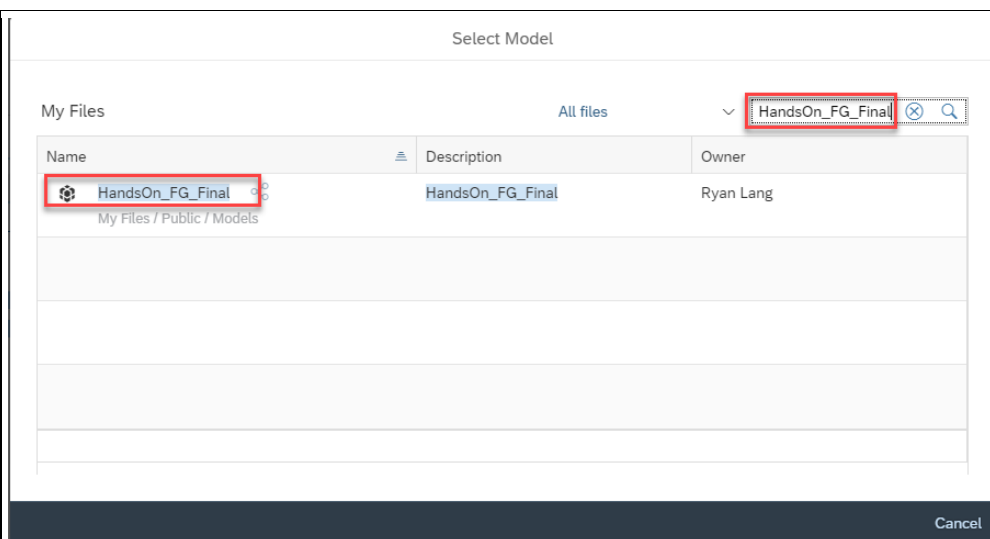
then **'Add Model'**



Search for 'handsOn' and find **HandsOn_FG_Final**

Click on it from the popups.

This is a dataset from SAP Fieldglass which contains our contractor's information



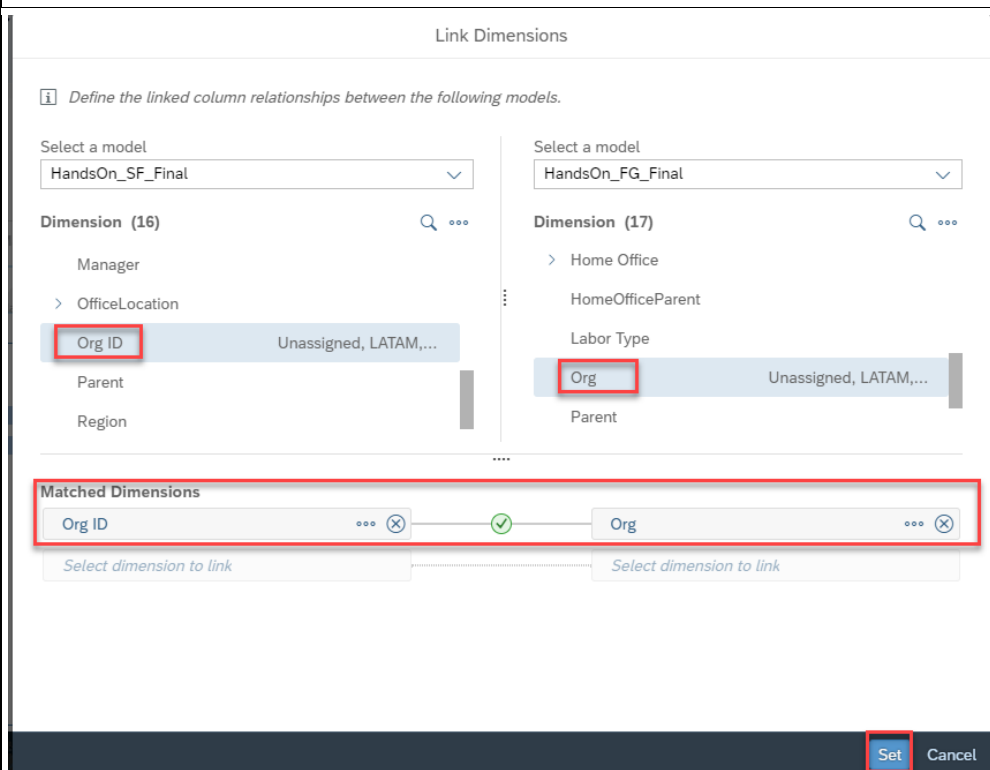
The common dimension between these two datasets are

Org ID and Org

Scroll down on each side to find the relevant dimension.

You can hover over these fields to get a data preview. By previewing the data, you can determine if the dimensions are compatible.

Once you have selected both – Click **'Set'**



Now click 'add measure'

You now see both data sets available in the single chart

Click **HandsOn_FG_Final**

Data Source

- HandsOn_SF_Final
- HandsOn_FG_Final

+ Add Linked Models

Chart Structure

Comparison Trend Distribution

Correlation Indicator More

Chart Orientation

Horizontal

Measures

- Employees

+ Add Measure

Dimensions

- Org ID

+ Add Dimension

Measures

- Employees

Search

- HandsOn_SF_Final
- HandsOn_FG_Final

Click **Contractors**

Measures

Employees •

Search

< HandsOn_FG_Final

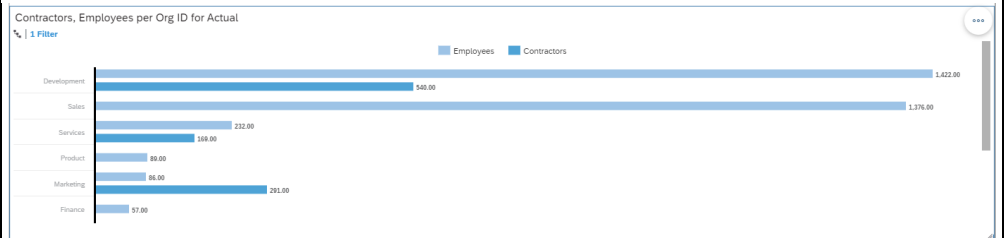
☐ Amount

☐ Assignment_Length

☒ Contractors

☐ Estimated_Hours

Your returned chart should look like this -



Change the **chart type** to 'Stacked bar'

Data Source

• HandsOn_SF_Final

HandsOn_FG_Final

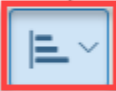
+ Add Linked Models

Chart Structure

Comparison

Trend

Distribution



Bar/Column

Combination Column & Line

Combination Stacked Column & Line

Stacked Bar/Column

Waterfall

You need to ensure you are only looking at active contractors to get a realistic count.

At the bottom of your chart designer;

Click '+ add filters'

Select 'HandsOn_FG_Final

Color

Measures ^

Member	Pattern	Color
Employees	 ▼	 ▼
Contractors	 ▼	 ▼

+ Add Dimension

 ↔

Filters

 **Category (1)** •
Actual

 **Category (1)**
Actual

 **Current Employment Status (1)** • ⊗
Active

+ Add Filters

Search

▼

- HandsOn_SF_Final
My Files / Public / Models
-  HandsOn_FG_Final
My Files / Public / Models

Scroll down and Select
'Employment_Status'

MEASURES

Employees •

Contractors

+ Add Measure

DIMENSIONS

Search

< HandsOn_FG_Final

Agency

Budget_on-track

Category

Category

Cell Contract Type

Contractor Category

Contrator Name

Employment_Status

End_Date

▶ Home

HomeOfficeParent

Labor Type

Org

Parent

Rating

Start_Date (Member)

Start_Date (Range)

Employment_Status (Employment_Status)

Select '**Active**'
Click '**OK**'

Set Filters for Employment_Status

Available Members

Show unbooked members ☐

Exclude selected members ☐

☒ **Active**

☐ Inactive

Selected Members

Active

[Clear Selection](#)

Settings for Users

☒ Allow viewers to modify selections

☐ Allow viewers to delete filter

☐ Hide in Controls Panel

Multiple Selection

OK Cancel

Now you can set up some user interactivity for the Story. First, we want to define any links between our different datasets. Although these datasets come from many different sources, they share common dimensions.

We can define these common dimensions by clicking the **Link Dimensions** button.

This takes us to the same interface we saw earlier.

File Insert Tools Data



You will see the link you defined earlier.
Click '**+ Add model link**'

Link Dimensions

Add a new model link or edit an existing model link.

HandsOn_SF_Final

Org ID

HandsOn_FG_Final

Org

[+ Add Model Link](#)

Done

Select **HandsOn_SF_Final** on the left side and **HandsOn_Concur_Final** on the right.

The models are linked by **OfficeLocation** And **Home_Office**

Click **Set**

Link Dimensions

Define the linked column relationships between the following models.

Select a model

Select a model

Add model...

HandsOn_Concur_Final
My Files / Public / Models

HandsOn_SF_Final
My Files / Public / Models

HandsOn_FG_Final
My Files / Public / Models

Link Dimensions

Define the linked column relationships between the following models.

Select a model

HandsOn_SF_Final

Dimension (16)

Category

Current Employment Status

Effective End Date

Effective Start Date

Event

Select a model

Select a model

Add model...

HandsOn_Concur_Final
My Files / Public / Models

HandsOn_FG_Final
My Files / Public / Models

Link Dimensions

Define the linked column relationships between the following models.

Select a model

HandsOn_SF_Final

Dimension (16)

Job Level

Job Title

Manager

> OfficeLocation Unassigned, BLR, D...

Org ID

Select a model

HandsOn_Concur_Final

Dimension (19)

Destination_Airport_Code

Home Office ID

Home_Office Loading samples...

ID

International_Domestic

Matched Dimensions

OfficeLocation ... X

Home_Office ... X

Select dimension to link

Select dimension to link

Set Back

Your links should now look like this:
Click **Done**

Link Dimensions

Add a new model link or edit an existing model link.

HandsOn_SF_Final

Org ID

HandsOn_FG_Final

Org

HandsOn_SF_Final

OfficeLocation

HandsOn_Concur_Final

Home_Office

+ Add Model Link

Done

Now we can define some user level interactivity for the story. We want the story to dynamically filter depending on what a user clicks on

To access this, click on the More Actions icon '...' on your chart and select **Linked Analysis**

...

Sort

Rank

Linked Analysis

Add Smart Insights

Add

Mobile

Show/Hide

Edit Axis

Collapse Title

Copy

Export

Edit Styling...

Through this interface you can define how a story reacts when a user clicks on something.

Select

'Only selected widgets'

This allows you to set what chart is going to update. There may be charts you want to exclude, such as a global KPI.

Click 'Filter on datapoint Selection'

This tells the story to filter out every object in the list when a user clicks one of the bars in your chart.

If you disable that, then you have to click on the bar and then actually click the filter icon. Depending on how you want people to use the story, this might be a better workflow.

Click '**Select All**' under Select widgets to connect to widget

Click **Apply**

Linked Analysis

Showing settings for:
Contractors, Employees per Org ID for A...

Interactions apply to:

- ☐ Only this Widget
- ☐ All widgets in the Story
- ☐ All widgets on this Page
- ☒ Only selected widgets

Settings:

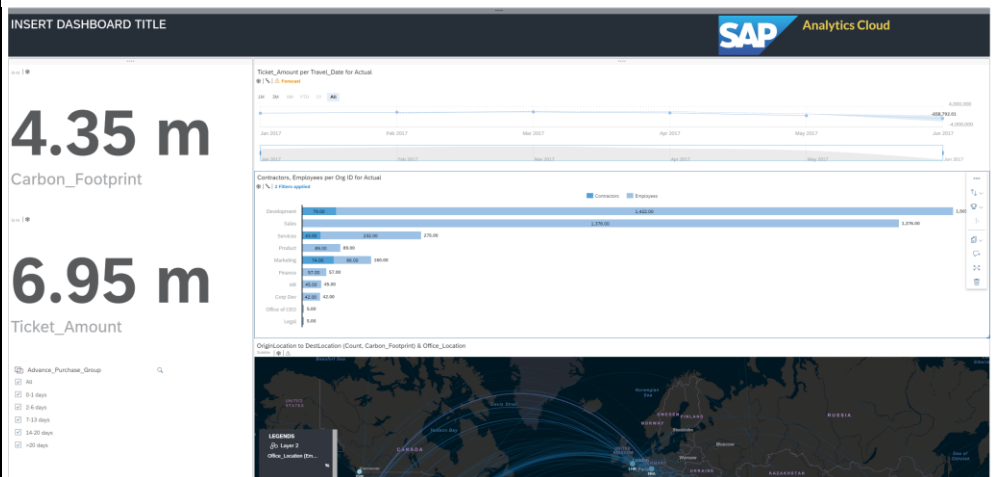
- ☒ Automatically connect newly created widgets
- ☒ Filter on data point selection

Select widgets to connect to widget:

- ☒ Select All
- ☒ 22 Carbon_Footprint for Actual
- ☒ Ticket_Amount per Travel_Date for Actual
- ☒ OriginLocation to DestLocation (Carbon_Footprint, Count)

Now, if you select the 'development' bar in your chart, the other charts should update and show their respective metrics filtered for only that part of the organization. Test it out

Without any selection your Dashboard should look like this -



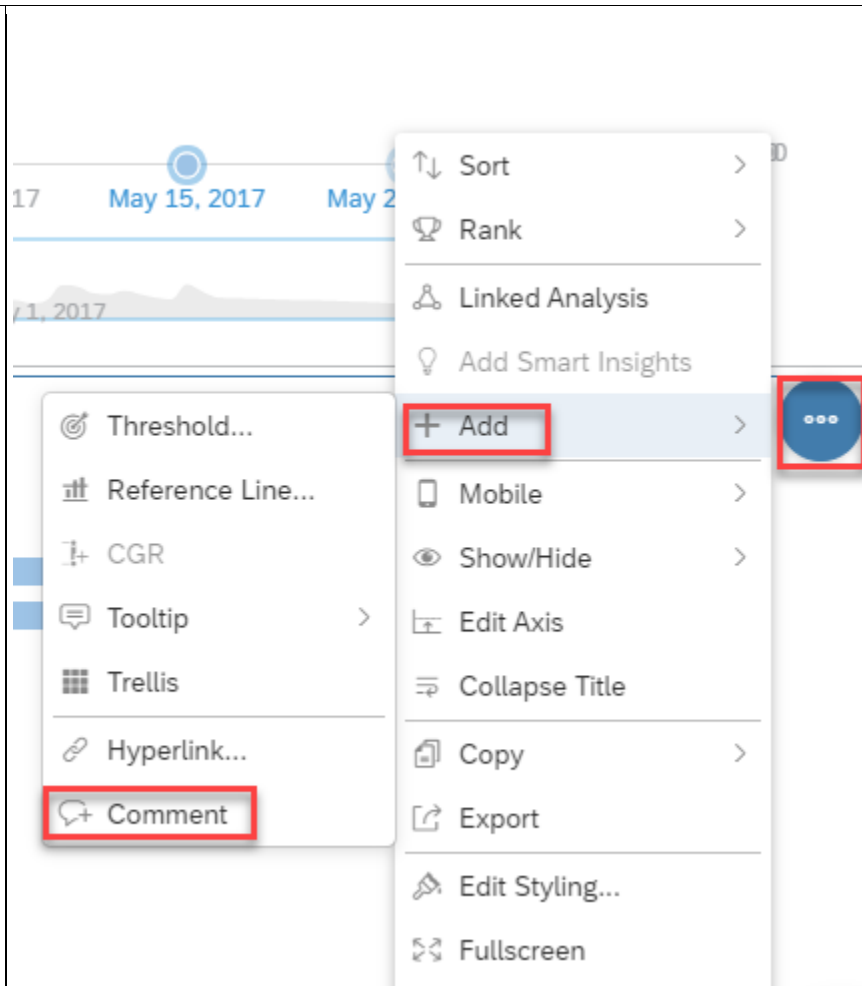
EXERCISE 6 – ADDITIONAL REPORTING FEATURES [15 MINUTES]

In this exercise you will see how easy it is to enhance your reporting with collaboration, save the report as a template for reuse or preview the report for viewing on different devices.

Analytics Cloud allows you to place comments directly on your charts. This enables you to provide context which isn't clearly described by the data.

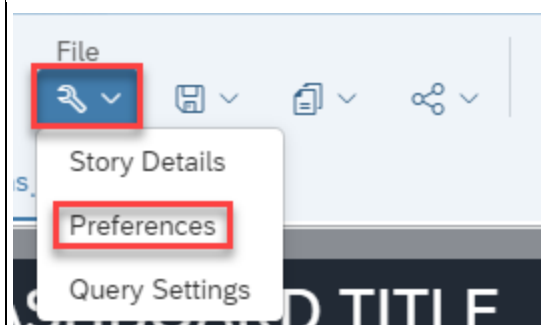
Click on any chart
Hover over **'add'**
Click **'comment'**
Type your comment

You will see a bubble on the chart indicating there are comments. You can also reply to the comment and create a threaded discussion



You can also make global changes to the theme of the story. This allows you to quickly define a consistent color scheme and style for the story.

Click the **Wrench** icon,
then
click **Preferences**



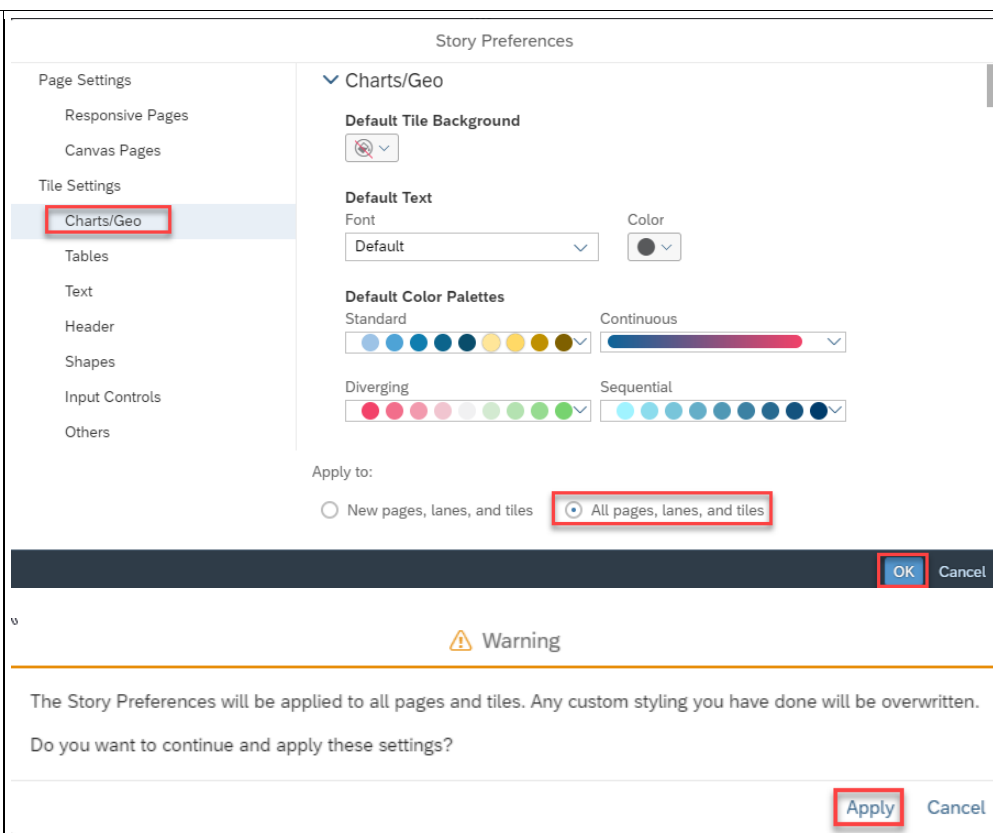
Find the **Charts/Geo** section and change the standard Chart Color Palette

You can also define custom pallets here

Ensure that '**All pages lanes and tiles**' is selected. This applies your changes to everything, even if it has already been created.

Click **OK**

For the following Warning Popup - Click **Apply**



Now that you have spent your time designing a color theme and a layout that you like, you can now save this as a template.

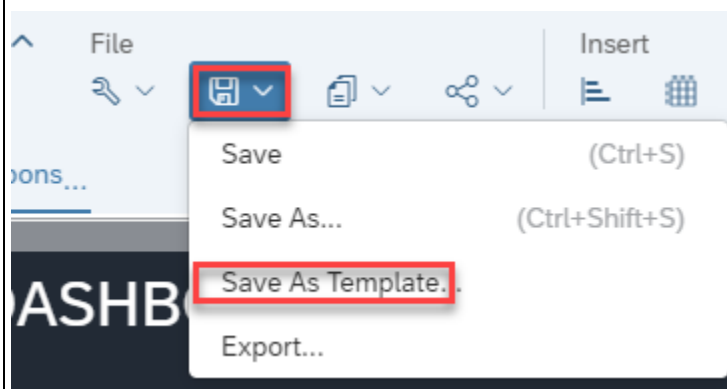
When you do this, you can get a jump start on your next report.

Click **Save**

Click **Save as Template**

Note Save as File gives you options to export the story to PDF

Please note – Save under **Analytics Cloud** Folder as before. Do not save under **Public** Folder. This keeps the template available to you in your private area.

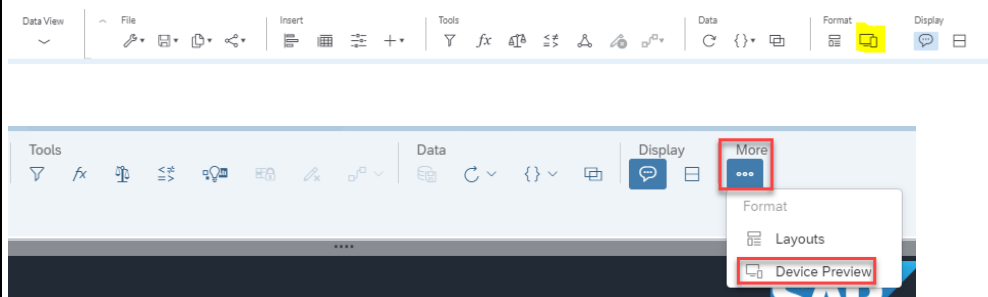


Analytics cloud supports mobile devices. You can search the Apple store for SAP Analytics cloud to download the app.

You can also preview how your story will look on a mobile device by **clicking the Device Preview** button

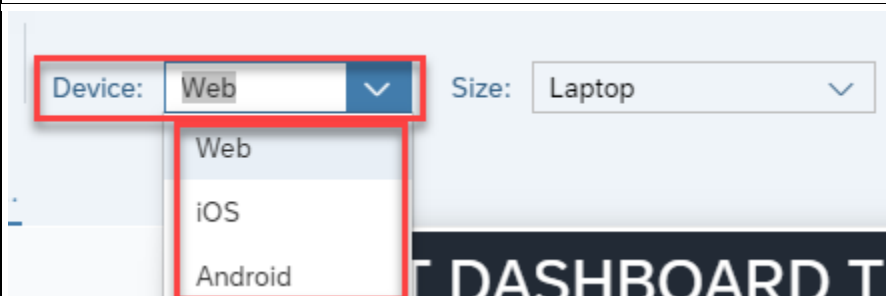
NOTE

Depending on your screen resolution, you may need to open the '...' under the 'More' menu to see the device preview

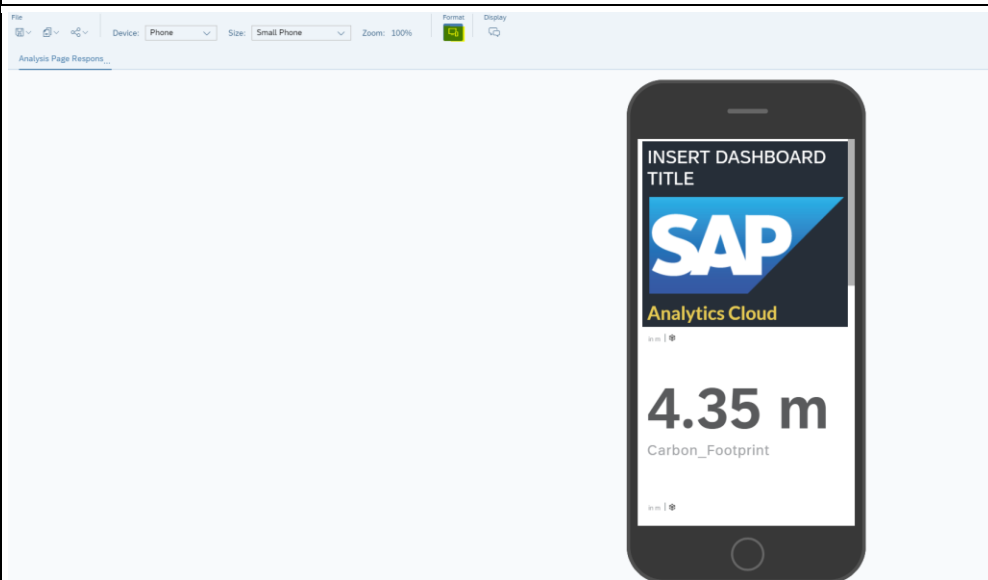


From here you can choose a variety of devices and screen sizes. The responsive layout automatically reflores the report to fit your device.

This interface gives you the ability to define specific formatting settings for different devices, so you can account for slight formatting changes for phones and tablets.



When you are done, press the Device Preview button again close the device preview



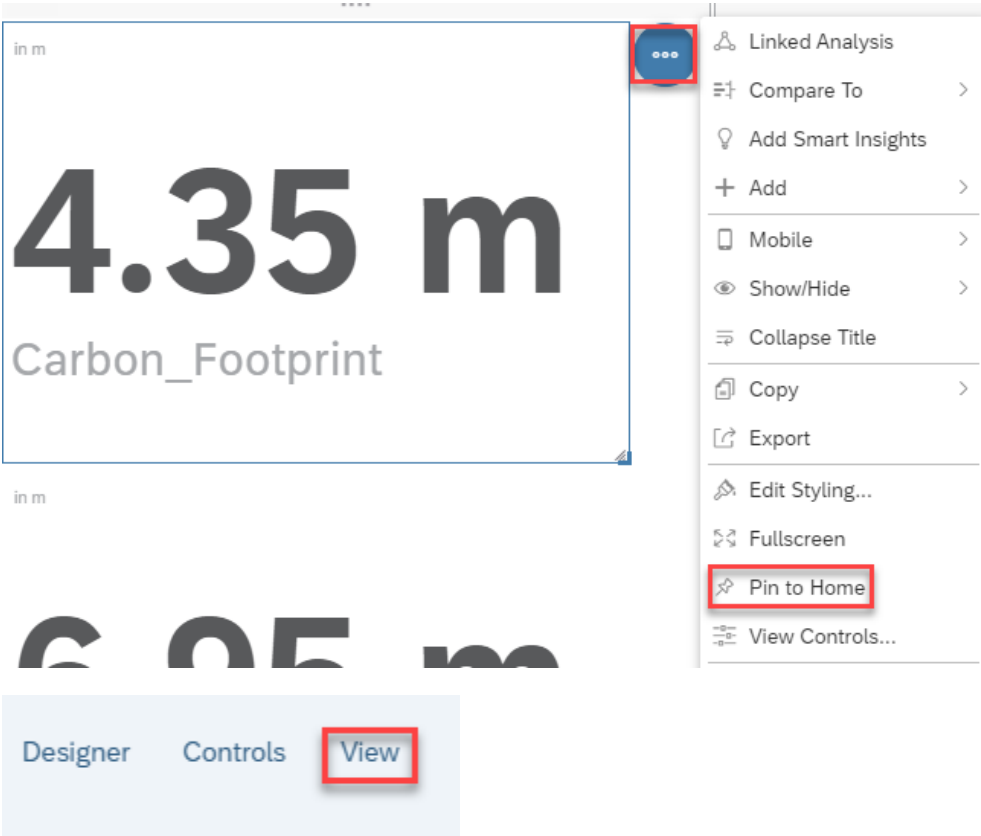
If you have certain metrics that you want to monitor over time, Analytics cloud allows you to pin important charts to your home page.

Hover over your chart of choice and find the **Pin to Home** icon.

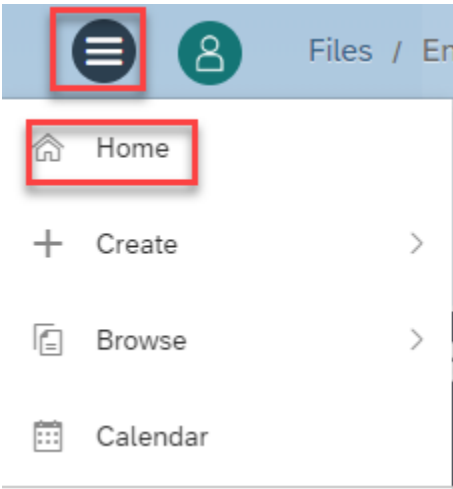
In this case we have selected the Carbon_Footprint KPI chart.

Note: If you arent seeing the pin, exit 'edit' mode by clicking on the word 'view' in the top right

It will now switch to view mode and you will see the pin option.

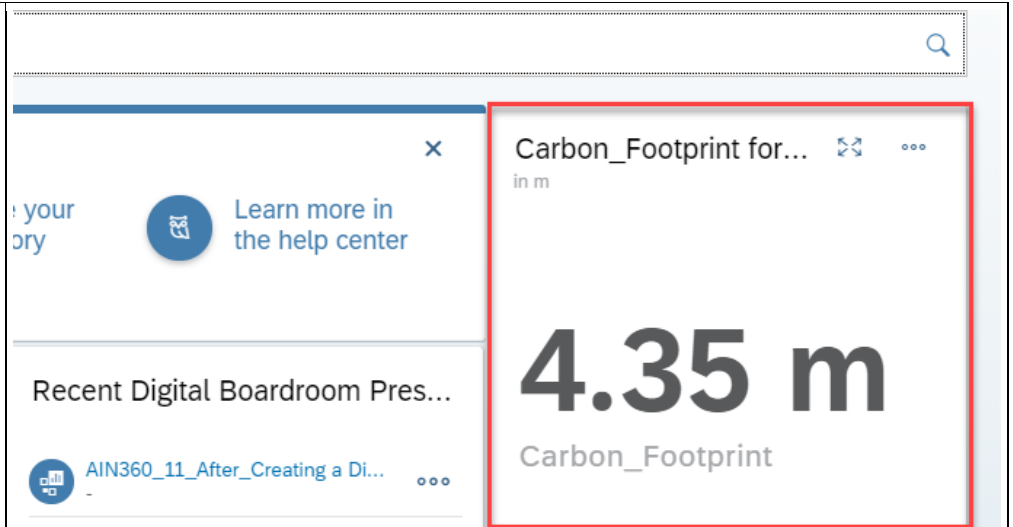


Now **click the top left menu** and select **home**



You will now see your tile on your home page.

You can also grab and drag these tiles around on the home page

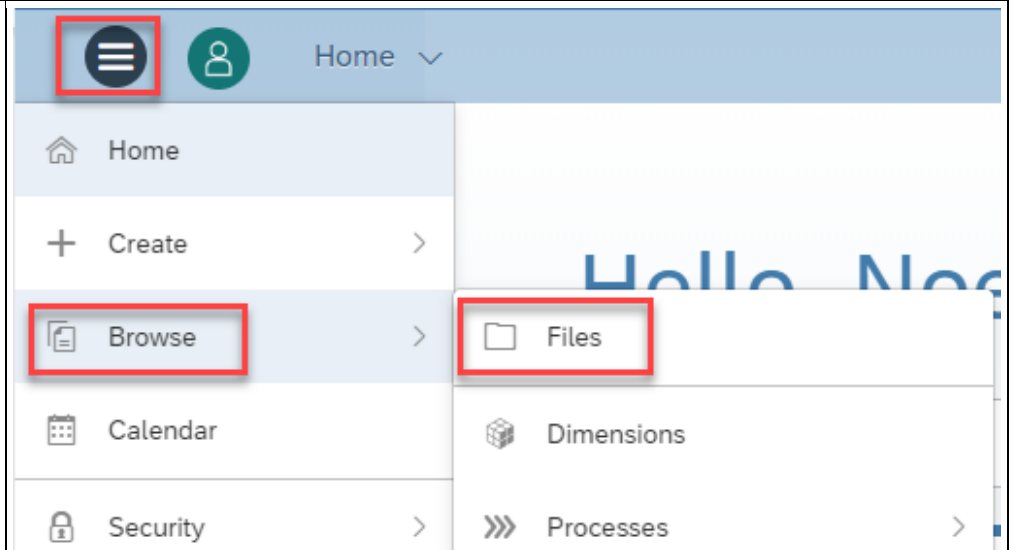


Finally, we can share these reports with other users.

Click the **Top left menu**

Click **Browse**

Click **Files**



Click the **check box** next to your story

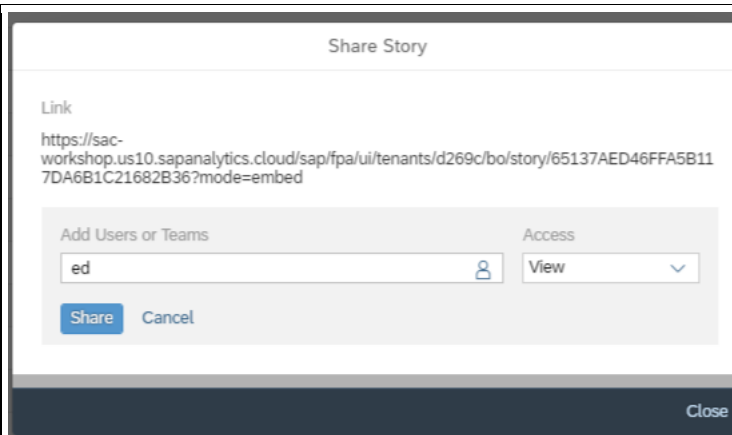
Click **Share**

(If Share is greyed out, you need to first select the story you want to share)

	Created on	Changed by
☐	Oct 29, 2018 13:51	-
☐	Oct 29, 2018 13:51	-
☐	Feb 1, 2019 8:32	-
☐	Sep 4, 2019 9:23	testy

You select who to share it with based on their user names. Try searching for some of the users who are in the workshop with you.

Click **'Send'**



Share Story

Link

<https://sac-workshop.us10.sapanalytics.cloud/sap/fpa/ui/tenants/d269c/bo/story/65137AED46FFA5B117DA6B1C21682B36?mode=embed>

Add Users or Teams

ed 

Access

View 

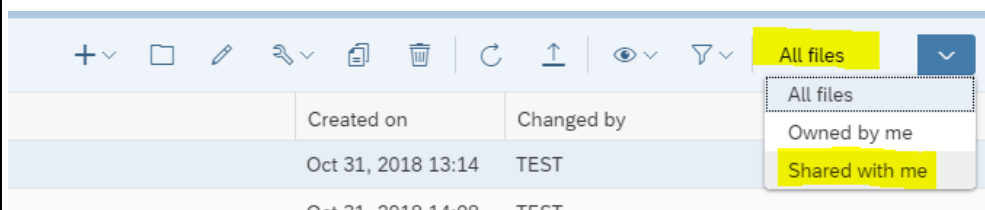
Share Cancel

Close

When you share a story with someone, an email is sent to them for notification.

Stories that are shared with you show up in your main view, but if you have a lot of stories you can filter these out by clicking the drop top at the top right of the screen and selecting 'shared with me'

If there are a lot of stories, you may need to **sort by 'Changed On'** to find the latest stories



          All files 		
Created on	Changed by	
Oct 31, 2018 13:14	TEST	
Oct 31, 2018 14:08	TEST	