Planview Daptiv Analytics



Chapter 15: Data Sets & Data Modules



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About the Training Manual

The intention of this training manual is to walk you through building your own **Data Sets** and **Data Modules** using **Analytics** in **Planview Daptiv**. Each section within this manual explains the context around the features in **Analytics**, how to use each feature functionally, and provides exercises so you can apply what you learn by creating or modifying your own **Data Sets** and **Data Modules**.

Recommended for

- Business Analysts who will use the Analytics tool in Planview Daptiv
- **Report Writers** with experience in other reporting applications

Prerequisites

Participants should know how to use a web browser and have basic computer skills. <u>It is</u> <u>imperative that participants be familiar with Planview Daptiv</u>. This manual is not designed for anyone who already has advanced report writing skills or *expertise* in Cognos.





15. Data Sets and Data Modules

Data Sets 85

Data Sets contain data that is extracted from a package or a Data Module.

Data Sets improve performance, security, and visibility of self-service analytics.

Data Sets are stored in *Team content* or *My content*. If the data in the Data Set changes, the change is reflected in the Data Module.

What is the difference between a Data Set and a Data Module?

Answer: a Data Set is not used to *model* data; rather it is a *container* that holds data. Data flows from the Data Model to the Data Set on an established refresh schedule. *The data in Data Sets is not live*. Reporting/querying against the Data Set is therefore much faster than reporting/querying directly against the Data Model – especially when consuming data via Dashboards and Explorations.

- You can create a Data Set that contains selected tables and rows from the Daptiv Data Model(s).
- A Data Set contains data stored as a single table in a column format.
- Once you have saved a Data Set, you can schedule regular *refreshes* of the data by creating a *schedule* in the properties of the Data Set.
- Define a Data Set by choosing one or more items (columns) from a package and apply filters to reduce the data results.
- Data Sets can be used to gather a customized collection of items that you use frequently.
- Data Sets can be members of a Data Module.





Data Modules 🔤

Data Modules are *containers* that describe data and rules for combining and shaping data to prepare it for analysis and visualization in Daptiv Analytics (i.e., "modeling").

While Data Sets contain data, Data Modules do not.

A user can quickly create a Data Module that includes data from one or more sources of different types.

The Data Module can be shared with other users, and used as a source to create reports, dashboards, stories, and explorations.

Data Modules:

- encourage and empower users to perform self-service analytics.
- *Self-service* means: not relying on IT or other gatekeepers to analyze data from multiple sources, using the same familiar, powerful, integrated platform as all other Business Intelligence activities.
- extend your analysis beyond traditional enterprise, or centrally managed sources of information.
- can be published and shared so a consistent logical model is available to all users.

Data Modules can be based on:

- existing Data Modules.
- pre-configured database connections (like Daptiv).
- Data Set extracts, or snapshots, from existing packages.
- live connections to existing Daptiv Data Models.



Planview Daptiv™

Your Folder Structure

Here is a recommended folder structure for you to create in Analytics. This structure accommodates the various types of Analytics entities:

Home Home	\leftarrow	$ \begin{tabular}{lllllllllllllllllllllllllllllllllll$
Q Search		Dashboards 9/1/2021 4:35 PM
My content		Data Modules 9/1/2021 4:35 PM
Team content		Data Sets 9/1/2021 4:32 PM
() Recent		External Data 9/1/2021 4:35 PM
		Reports 9/1/2021 4:35 PM
		Stories 9/1/2021 4:36 PM

This standardized structure provides ease of navigation. Furthermore, when you want to export and relocate any Analytics items, you can "package" entire folders as a unit.

Note: Although your custom folders and sub-folders are visible in <u>both</u> the Analytics portal <u>and</u> your Daptiv Reports tab, your Data Sets and Data Modules are <u>only</u> visible via the Analytics portal.





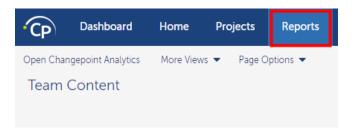
Exercise 1 (Folders): Create a Custom Folder Structure

Scenario:

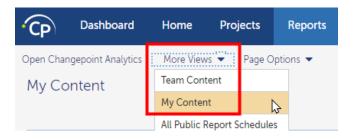
As a report writer on a team of report writers, it is important for you to organize your reporting content in a clear, accessible manner. This organizational structure will also facilitate the packaging of your report entities.

Task 1: Create new topical folder

1. Navigate to the **Reports** tab in Daptiv:

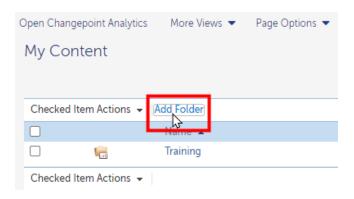


2. Navigate to More Views > My Content:



*You may choose to create your new **Folder** in any **Team Content or My Content** subfolder of your choice.

3. Click Add Folder to add a new Folder







4. Provide a Name and Description for the new folder:

My Cor	ntent	
New Folde	er	
Name	Time Compliance	
Description	This folder contains the Data Sets and Data Module for the Time Compliance reports and dashboards.	

5. Click Save and Close

Task 2: Create sub-folders to organize your reporting components

- 1. Click on your new Folder (Time Compliance) to navigate within it
- 2. Once again, click Add Folder to add a new Folder
- 3. Name your new Folder: Data Sets
- 4. Click Save and Close
- 5. Repeat Steps 2 through 4 to create the following additional new Folders:
 - Data Modules
 - External Data
 - Reports
 - Dashboards
 - Stories
- 6. Your finished folder structure should look like this in Daptiv:

Му Со	ontent T	me Compliance	
Checke	ed Item Actions	✓ Add Folder	
		Name 🔺	Actions
	6	Dashboards	
	6	Data Modules	
	i	Data Sets	▼
	i	External Data	▼
	i	Reports	▼
	i.	Stories	▼

Note, again: Although your custom folders and sub-folders are visible in <u>both</u> the Analytics portal <u>and</u> your Daptiv Reports tab, your Data Sets and Data Modules are <u>only</u> visible via the Analytics portal.





Exercise 2 (Data Sets): Create DATA SET : Time Compliance – User and Net Capacity

Scenario: Create a limited Data Set of basic User and Net Capacity information

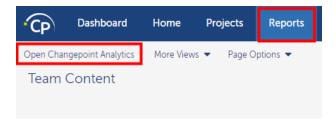
> Note: From within Analytics, clicking the + New icon does not show a Data Set option:

	Data module
31	Dashboard
0	Report
€	Story
+	New 🔈 💿

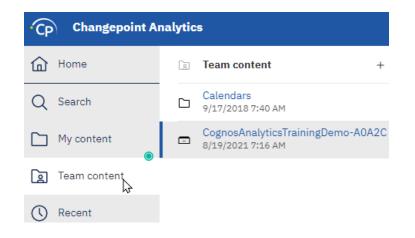
Data Sets can only be created from a Data source

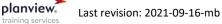
Task 1: Create a Data Set

1. Open Analytics:



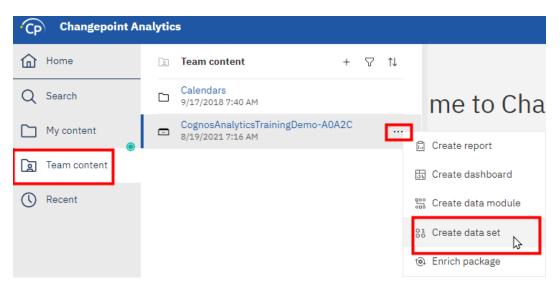
2. Click Team content in the left-side navigation column:







3. Click the More menu next to your Daptiv data package name, then click Create data set:



4. Your Analytics window should look like this now:

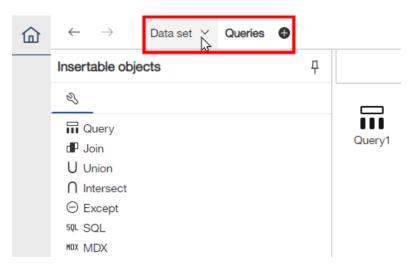
·CP	≝ ↔ <i>→</i>	New data set * 🗸 🗸		Å	¢	8	?
ඛ	← → Data set > Pages > Page1			Pa	age desig	n Y	:
	Insertable objects	Ţ					
	β						
	Q, Find						
	 ✓ See CognosAnalyticsTrainingDemo-A0A2C > ★ Presentation 	Add data here					
		Summarize detailed values, suppressing duplicates, for relational data set	ources				
		Row suppression					
+ •		Reset					





Task 2: Create 2 New Queries

1. Navigate to **Data set > Queries**:



 The default Query1 will be your Data Set's main table of data. Right-click Query1 and rename it to: User – Net Capacity

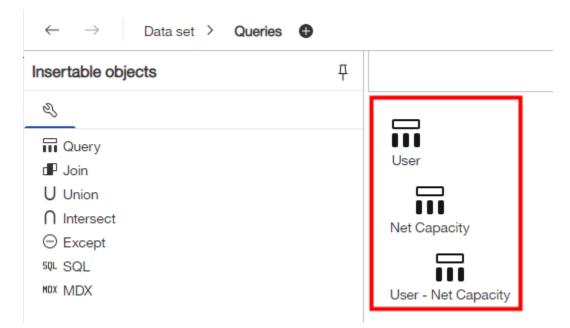
Data set 👌 Queries 🔮							
ojects	Т	%		[¢	~	Ū	₿
		Qu	ery1	_ Б	dit		
				⊑ÞR	enan	ne que	ery 🔓
				% с	ut		
				C C	ору		

- 3. Create two additional Queries with the following names:
 - User
 - Net Capacity



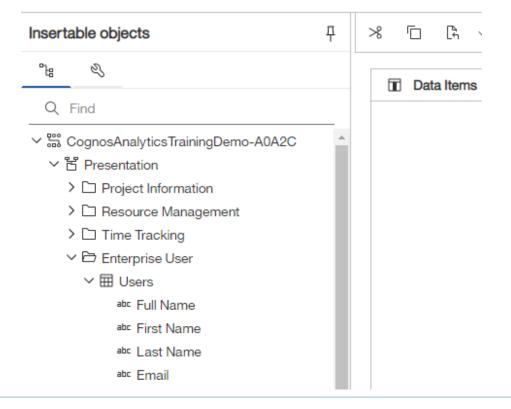


4. Click-and-drag to re-arrange your 3 Queries so they look like this:



Task 2: Add Data Items to User Query and include Filters

- 1. Double-click the User Query
- Using the Sources tab in the Insertable objects pane, navigate to: Presentation > Enterprise User > Users





- 3. From the **IDs** folder, drag over the following **Data items**:
 - DirectoryUserID
 - EnterpriseMemberID
 - OwnerID

Insertable objects	д	% D G ~ Ū 18
°¦a €}		Data Items
 Q Find → Oservey > □ Work Schedule > □ Nonworking Time Schedule > □ Login Information 	•	 DirectoryUserID EnterpriseMemberID OwnerID
 C Additional Address Information C Additional Address Information C DirectoryUserID abc OwnerID 		

- 4. From **Presentation > Enterprise User > Users**, drag over the following **Data items**:
 - Full Name
 - Resource Manager
 - Timesheets Required
 - Status
- 5. From your list of **Data Items** in the **Query**, click-and-drag **Timesheets Required** into the **Detail Filters** box:

Data Items	Detail Filters
DirectoryUserID	
T EnterpriseMemberID	
OwnerID	
🖬 Full Name	
Resource Manager	
Timesheets Required	
I Status	

6. In the Expression Definition box, append the following to [Timesheets Required]:

= 'Yes'





7. The finished Expression should be:

Detail filter expression - User	
Available Components:	Expression Definition: [Timesheets Required] = 'Yes'
> ≌ Presentation	Information:
°t: II II ∅ ∞ ↔	Tips Errors

- 8. Click OK to close the Detail filter expression dialog box
- 9. From your list of Data Items in the Query, click-and-drag Status into the Detail Filters box
- 10. In the Expression Definition, append the following to [Status]:

= 'Active'

- 11. Click **OK**
- 12. Your Detail Filters should look like this now:

% C C · D	
1 Data Items	√ Detail Filters
DirectoryUserID	√ [Timesheets Required] = 'Yes'
T EnterpriseMemberID	√ [Status] = 'Active'
D OwnerID	
🖬 Full Name	
T Resource Manager	
Timesheets Required	∑ Summary Filters
T Status	

• Note: remember to use the single-quote mark around **'Yes'** and **'Status'**. A doublequote mark will cause an error.





Task 4: Add Data Items to the Net Capacity Query and include Filter

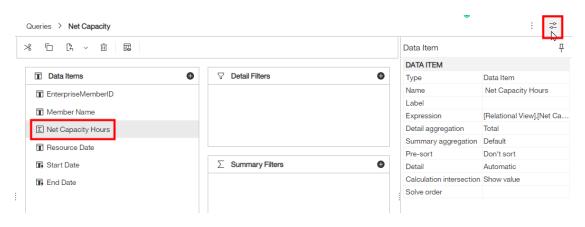
- 1. Navigate to **Data set > Queries** and double-click the *Net Capacity* Query
- 2. Using the Sources tab in the Insertable objects pane, navigate to: Presentation > Resource Management > Resource Allocations / Capacity > Resource Member and Type
- 3. From the IDs folder, drag over the following Data item:
 - EnterpriseMemberID

Insertable objects	% [1 l ^a ~ ū 17
Name Name Q Find ✓ Sime CognosAnalyticsTrainingDemo-A0A2C ✓ Sime Presentation > D Project Information ✓ Besource Management	 Data Items EnterpriseMemberID
 Resource Management Date Groups Requirements Resource Allocations / Capacity Allocations Allocation Filters Requirement Remaining Hours Resource Member and Type Rember Type Name Member Type Description Member Name Capacity and Availability Dis 	





- 4. From Presentation > Resource Management > Resource Allocations / Capacity > Resource Member and Type, add the following Data item:
 - Member Name
- 5. From Presentation > Resource Management > Resource Allocations / Capacity > Resource Member and Type > Capacity and Availability, add the following Data item:
 - Net Capacity Hours
- 6. With your Data Item Net Capacity Hours still selected, open the Properties pane:



 In Properties > DATA ITEM, set both Detail aggregation and Summary aggregation to: None

-		÷	ţ	
Data Item			Į	I
DATA ITEM				
Туре	Data Item			
Name	Net Capacity	y Hou	rs	
Label				
Expression	[Relational Vi	ew].[N	let Ca	
Detail aggregation	None			
Summary aggregation	None			~
Pre-sort	Don't sort			
Detail	Automatic			
Calculation intersection	Show value			
Solve order				





8. In the **Data Items** box, click the 🕒 icon to create a new custom Data Item:

\leftarrow \rightarrow Data set $>$ Queries $>$ Net (Capacity
Insertable objects	
°н ≤	🖬 Data Items 🕒
Q Find	EnterpriseMemberID
✓ 端 CognosAnalyticsTrainingDemo-A0A2C ✓ 웜 Presentation	Member Name
Project Information	S Net Capacity Hours
✓ ➡ Resource Management	
> 🖽 Resource Management Date Groups	5
> III Requirements	

- 9. In the Name section of the Data item expression box, change the name to: Resource Date
- 10. In the **Expression Definition** box, insert the following **Case Statement**:

CASE WHEN _day_of_week ([Relational View].[Resource Management Date Groups].[Resource Day],7) = 1

THEN [Relational View].[Resource Management Date Groups].[Resource Day]

ELSE

_add_days([Relational View].[Resource Management Date Groups].[Resource Day], -(_day_of_week ([Relational View].[Resource Management Date Groups].[Resource Day],7)-1))

END





11. The result:

vailable Components:		
		Expression Definition:
 ✓ Sin CognosAnalyticsTr > E[*] Presentation 	ainingDemo-A0A2C	CASE WHEN _day_of_week ([Relational View].[Resource Management Date Groups].[Resource Day],7) = 1 THEN [Relational View].[Resource Management Date Groups].[Resource Day] ELSE _add_days([Relational View].[Resource Management Date Groups].[Resource Day -(_day_of_week ([Relational View].[Resource Management Date Groups].[Resource Day],7)-1)) END
		③ Information: No errors.
°ta 🔟 🖬	(j) 🕅 🖸	Tips Errors

12. Click **OK**

• Note: The CASE statement above ensures that *Sunday* is used when *Resource Date* is joined with *Start Date* from another Query. This CASE statement is not needed if, in fact, your Daptiv environment's **Timesheet Period Starts On** value is already set to *Sunday*:

Daptiv Admin > Enterprise Settings > Timesheet Properties:

Admin	Y Home	Enterprise Se	ettings	User Settin	gs Use	rs	Resource	es	Workspaces
		l Properties verties Time				heet	Propertie ot Notific	es	License Inforn on Settings
1.7	Fimesh	ieet Perio	d Setti	ngs					
		٦	lime l	Period	OB		kly onthly thly		
	Ti	me Peric	od Sta	rts On	Sun	day	~		





13. In the upper right corner of the window, click the \Rightarrow icon to open **Properties**:

	 જ	¢	8	?
			: 8	
			•	
∑ Summary Filters			0	

- 14. Be sure that Resource Date is selected in the Data Items list
- 15. In the **Properties** for *Resource Date*, set both **Detail aggregation** and **Summary aggregation** to *None*:

Data Item	꾸
DATA ITEM	
Туре	Data Item
Name	Resource Date
Label	
Expression	CASE WHEN _day_of_we
Detail aggregation	None
Detail aggregation Summary aggregation	None v
00 0	
Summary aggregation	None ~
Summary aggregation Pre-sort	None v Don't sort Automatic





- 16. In the **Data Items** box, click the 🔮 icon to create a new custom Data Item
- 17. Change the Data Item **Name** to: *End Date*
- 18. Insert the following Case Statement in the Expression Definition:

CASE WHEN _day_of_week (current_date,6) = 7

THEN (current_date)

ELSE

_add_days(current_date, -_day_of_week (current_date,6))

END

Data item expression - Data Item1

Available Components:	Ø Ξ Ξ % Π
 ✓ [™] CognosAnalyticsTrainingDemo-A0A2C ▶ 풉 Presentation 	Expression Definition: CASE WHEN _day_of_week (current_date,6) = 7 THEN (current_date) ELSE _add_days(current_date,day_of_week (current_date,6)) END
	 Information: current_date Returns a date value representing the current date of the computing that the database software runs on. Example: current_date Result: 2003-03-04
°t: 🖬 🖬 🕅 🔤	Tips Errors

19. Click **OK**

• Note: This CASE statement ensures that *Saturday* is used as the End Date.



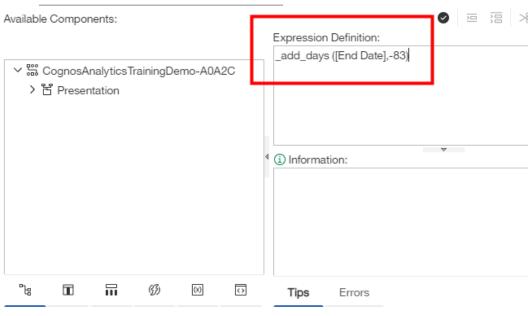


- 20. In the **Data Items** box, click the 🚭 icon to create a new custom Data Item
- 21. Change the Data Item Name to: Start Date
- 22. Insert the following Expression Definition:

_add_days ([End Date],-83)

Data item expression - Start Date





OK

23. Click **OK**

• Note: This statement establishes Start Date as 83 days prior to End Date.





24. In the **Details Filters** box, click the 🚭 icon

>8
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□

I
Data Items
I

I
Data Items
I

I
EnterpriseMemberID

I
Member Name

I
Net Capacity Hours

I
Resource Date

I
Start Date

I
End Date

I
Summary Filters

25. In the Expression Definition box, add the following:

extract(year, [Resource Date]) between extract(year, _add_years(current_date, -4)) and extract(year, current_date)

Available Components:	Expression Definition: extract(year, [Resource Date]) between extract(year, _add_years(current_date, -4)) and extract(year, current_date)
	 Information: add_years (date_expression, integer_expression) Adds "integer_expression" years to "date_expression". If the "date_expression" is February 29 and resulting year is non leap year, then the resulting day is set to February 28. In all other cases the returned value has the same day and month as "date_expression".
<u>°ta</u> D III ∅ ∅ ⊙	Tips Errors

Detail filter expression - Net Capacity

26. Click **OK**

• Note: This filter ensures that only the previous 4 years' resource data is included.



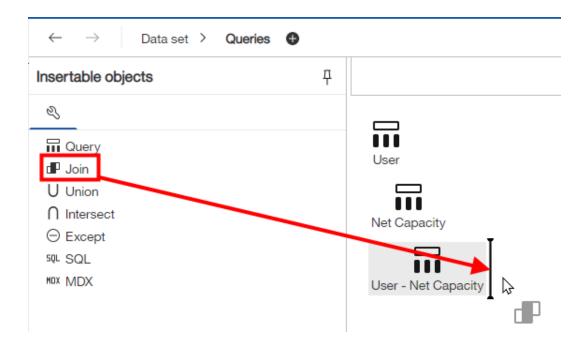


Task 5: Add a Join to the User – Net Capacity Query

1. Navigate to **Data set > Queries**:

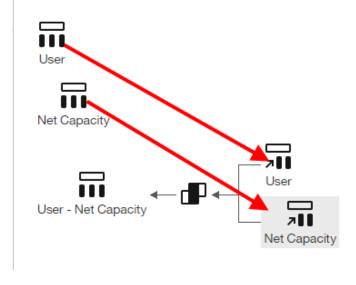
ඛ	$\leftarrow \rightarrow$	Data set >	Queries	Ð						
	Insertable obj	ects			꾸	>%		[4	~	Ū
	Z						_			
	Query					Us				
	D Join					US	er			
	U Union									
	∩ Intersect					No	t Capa	city		
	⊖ Except					INE	і Сара	City		
	sqL SQL									
	MOX MDX					Us	er - Ne		acity	

2. From **Insertable objects > Toolbox**, click to select a **Join**, and drag it to the right side of the *User – Net Capacity* Query:



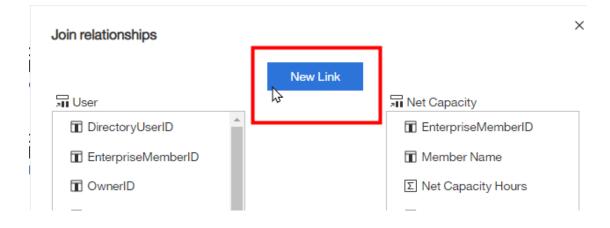


- 3. Into the first of the 2 empty Join sources, click-and-drag the User Query
- 4. Into the second of the 2 empty Join sources, click-and-drag the Net Capacity Query



5. Double-click the Join 🔶 🗗 🔶 icon

6. In the Join relationships dialog box, click the New Link button:



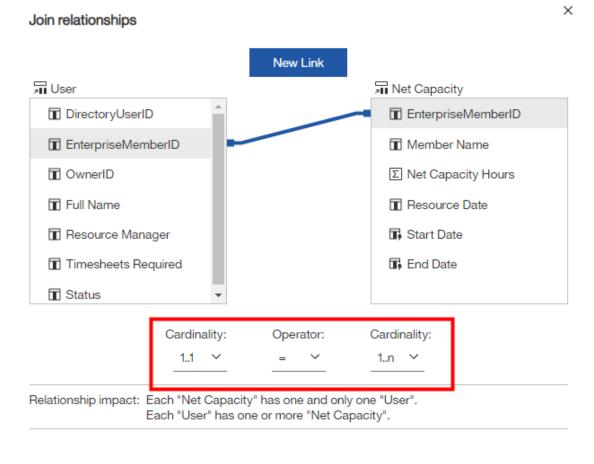
7. Establish the connection between *EnterpriseMemberID* and *EnterpriseMemberID*:







8. Set the Cardinality values:



Convert to expression		ОК		Cancel
-----------------------	--	----	--	--------

9. Click OK





Task 6: Add Data Items to the User – Net Capacity Query

- 1. Double-click the *User Net Capacity* Query
- 2. From Insertable objects > Source, drag over the following Data Items:
 - EnterpriseMemberID
 - Full Name
 - Net Capacity Hours
 - Resource Date

← → Data set > Queries > User - N	let Capacity
Insertable objects	% D C v ū 10
	Data Items
 ✓ I Join ✓ I User I DirectoryUserID I EnterpriseMemberID 	 EnterpriseMemberID Full Name Net Capacity Hours
 OwnerID Full Name Resource Manager 	🖬 Resource Date
 Timesheets Required Status Net Capacity 	
 EnterpriseMemberID Member Name Net Capacity Hours Resource Date Start Date 	
🖬 End Date	



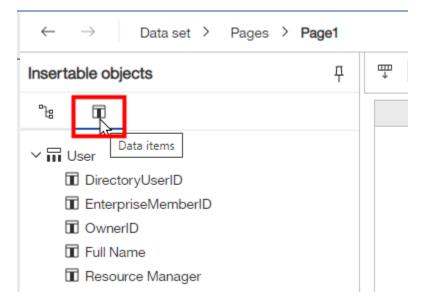


Task 7: Add the Data Items from the Main Query to Page1

1. Navigate to **Data set > Pages > Page1**:

← → Data set > Pages > Page1

2. In the Insertable objects pane, click the Data Items tab:







3. Click the main Query and drag it to Page1:

nsert	table objects	무	Ť
₽18		L	
~ 🖬	User		
1	DirectoryUserID		
[EnterpriseMemberID		
1	🖬 OwnerID		
l	🖬 Full Name		
l	🖬 Resource Manager		
l	Timesheets Required		
1	🖬 Status		
✓ III	Net Capacity		
	EnterpriseMemberID		
	🔟 Member Name		
[Σ Net Capacity Hours		
	Resource Date		
	🕠 Start Date		
	🖬 End Date		
	User - Net Caparity		
	EnterpriseMemberID		
	T Full Name		
	Σ Net Capacity Hours		
1	Resource Date		

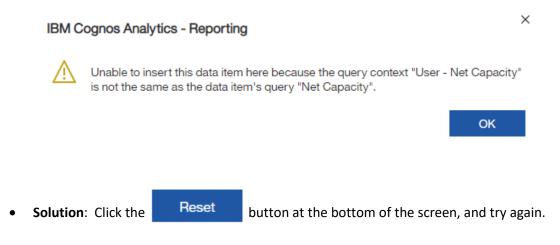




4. The table on Page1 should look like this:

sertable objects	무	т. т			
Դ։ 🗊		EnterpriseMemberID	Full Name	Net Capacity Hours	Resource Date
		<enterprisememberid></enterprisememberid>	<full name=""></full>	<net capacity="" hours=""></net>	<resource date=""></resource>
/ 🖬 User		<enterprisememberid></enterprisememberid>	<full name=""></full>	<net capacity="" hours=""></net>	<resource date=""></resource>
DirectoryUserID		<enterprisememberid></enterprisememberid>	<full name=""></full>	<net capacity="" hours=""></net>	<resource date=""></resource>
 EnterpriseMemberID OwnerID 					
E Gwnerid Full Name					
Resource Manager					
Timesheets Required					
Status					
T Net Capacity					
EnterpriseMemberID					
I Member Name					
Σ Net Capacity Hours					
Resource Date					
🖬 Start Date					
🕞 End Date					
User - Net Capacity					
EnterpriseMemberID					
🔟 Full Name					
Net Capacity Hours					
Resource Date					
	-				
		Summarize detaile	d values, suppre	essing duplicates, for relat	ional data sources
		Row suppression			

• Note: If you encountered the following error:







Task 8: Save the Data Set

1. Click the floppy disk 🔛 icon in the upper left corner of the window:

CP	₽ ↔ →	
ඛ	← Save Data set > Pages > Page1	
	Insertable objects	um ↓
	∿: □	EnterpriseMemberID
	✓ 🖬 User	<enterprisememberid></enterprisememberid>
	 DirectoryUserID 	<enterprisememberid></enterprisememberid>
		<enterprisememberid></enterprisememberid>
	OwnerID	
	Full Name	
	Resource Manager	

- 2. Choose Save
- 3. Navigate to **My content > Time Compliance > Data Sets**:

4. Provide the following name:

DATA SET – Time Compliance – User and Net Capacity

5. Click Save



Task 9: Preview the data in the Data Set

1. Remaining on Page1, change from Page design view to Page preview:

⇔		DATA SET – Time Complia	nce – User and	Net Capacity * 🗸 🗸		 ~°°	¢	2	?
Data set > Page	s > Page1					Pa	ıge desiç	gn 🏠	÷
cts	꾸						0	design	
		EnterpriseMemberID	Full Name	Net Capacity Hours	Resource Date	-	Page	preview	
		<enterprisememberid></enterprisememberid>	<full name=""></full>	<net capacity="" hours=""></net>	<resource date=""></resource>				
vUserID		<enterprisememberid></enterprisememberid>	<full name=""></full>	<net capacity="" hours=""></net>	<resource date=""></resource>				
seMemberID) ne		<enterprisememberid></enterprisememberid>	<full name=""></full>	<net capacity="" hours=""></net>	<resource date=""></resource>				

2. A <u>subset</u> of the data in your **Data Set** will appear in the table:

				Page p	oreview 🗡
	Ť				
	EnterpriseMemberID	Full Name	Net Capacity Hours	Resource Date	
	{10880432-29D4-45A6-BCDC-0AB7C7667A4F}	Alison Tatlock	40.00	12/31/17	
	{10880432-29D4-45A6-BCDC-0AB7C7667A4F}	Alison Tatlock	40.00	1/7/18	
	{10880432-29D4-45A6-BCDC-0AB7C7667A4F}	Alison Tatlock	40.00	1/14/18	
	{10880432-29D4-45A6-BCDC-0AB7C7667A4F}	Alison Tatlock	40.00	1/21/18	
	{10880432-29D4-45A6-BCDC-0AB7C7667A4F}	Alison Tatlock	40.00	1/28/18	
	{10880432-29D4-45A6-BCDC-0AB7C7667A4F}	Alison Tatlock	40.00	2/4/18	
	{10880432-29D4-45A6-BCDC-0AB7C7667A4F}	Alison Tatlock	40.00	2/11/18	
	{10880432-29D4-45A6-BCDC-0AB7C7667A4F}	Alison Tatlock	40.00	2/18/18	
	{10880432-29D4-45A6-BCDC-0AB7C7667A4F}	Alison Tatlock	40.00	2/25/18	
	{10880432-29D4-45A6-BCDC-0AB7C7667A4F}	Alison Tatlock	40.00	3/4/18	
	{10880432-29D4-45A6-BCDC-0AB7C7667A4F}	Alison Tatlock	40.00	3/11/18	
	{10880432-29D4-45A6-BCDC-0AB7C7667A4F}	Alison Tatlock	40.00	3/18/18	
i	{10880432-29D4-45A6-BCDC-0AB7C7667A4F}	Alison Tatlock	40.00	3/25/18	
	{10880432-29D4-45A6-BCDC-0AB7C7667A4F}	Alison Tatlock	40.00	4/1/18	
	{10880432-29D4-45A6-BCDC-0AB7C7667A4F}	Alison Tatlock	40.00	4/8/18	
	{10880432-29D4-45A6-BCDC-0AB7C7667A4F}	Alison Tatlock	40.00	4/15/18	
	{10880432-29D4-45A6-BCDC-0AB7C7667A4F}	Alison Tatlock	40.00	4/22/18	
	{10880432-29D4-45A6-BCDC-0AB7C7667A4F}	Alison Tatlock	40.00	4/29/18	
	{10880432-29D4-45A6-BCDC-0AB7C7667A4F}	Alison Tatlock	40.00	5/6/18	
	{10880432-29D4-45A6-BCDC-0AB7C7667A4F}	Alison Tatlock	40.00	5/13/18	
	{10880432-29D4-45A6-BCDC-0AB7C7667A4F}	Alison Tatlock	40.00	5/20/18	
	{10880432-29D4-45A6-BCDC-0AB7C7667A4F}	Alison Tatlock	40.00	5/27/18	



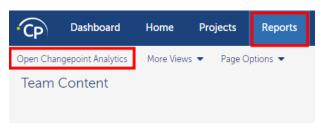
ŝ



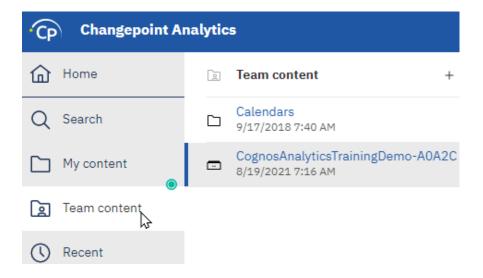
Exercise 3 (Data Sets): Create a Data Set named DATA SET : Time Compliance – User and Timesheet

Task 1: Create a Data Set

3. Open Analytics:



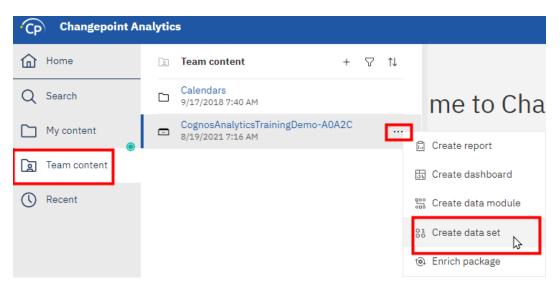
4. Click Team content in the left-side navigation column:







5. Click the More menu next to your Daptiv data package name, then click Create data set:



6. Your Analytics window should look like this now:

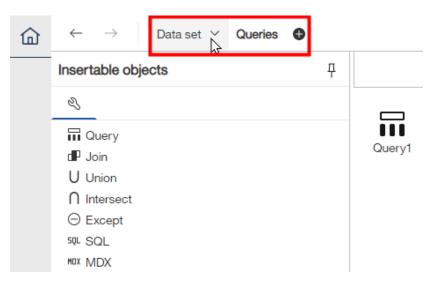
·CP			New data set * ∨		Å	¢	8	?
ඛ	\leftarrow \rightarrow Data set $>$ Pages $>$ Pag	e1		_	Pa	ige desig	gn 🗸	:
	Insertable objects	Ψ	Ţ					
	°lg							
	Q Find							
	CognosAnalyticsTrainingDemo-A0A2C							
	> 뿝 Presentation		Add data here					
			Summarize detailed values, suppressing duplicates, for relational data source	es				
			Row suppression					
+ 🔍			Reset					



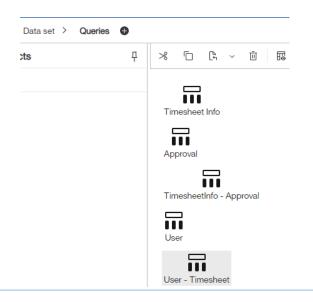


Task 2: Create 4 New Queries

1. Navigate to **Data set > Queries**:



- The default Query1 will be your Data Set's main table of data. Rename Query1 to: User Timesheet
- 3. Create four additional Queries with the following names:
 - Timesheet Info
 - Approval
 - TimesheetInfo Approval
 - User
- 4. Click-and-drag to re-arrange your 5 Queries so they look like this:

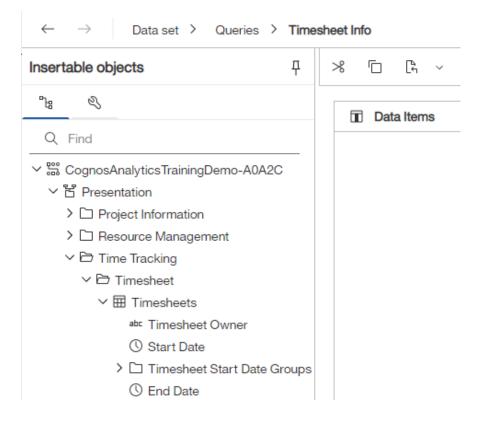






Task 2: Add Data Items to *Timesheet Info* Query and include Filter

- 1. Double-click the *Timesheet Info* Query
- 2. Using the **Sources tab** in the **Insertable objects** pane, navigate to: **Presentation > Time Tracking > Timesheet > Timesheets**



3. Drag over the following **Data items**:

- Timesheet Owner
- Timesheet Period
- Timesheet Status
- Approval Status
- Start Date
- End Date





4. Double-click your **Start Date** item and rename it to: *Timesheet Start Date*

Data Items		Detail F
Timesheet Owner		
Timesheet Period		
Timesheet Status		
Approval Status	Data item expression - Start Date	
Start Date		
End Date	Name: Timesheet Start Date	
	Available Components:	Expression Definition:
	 ✓ Sin CognosAnalyticsTrainingDemo-A0A2C >	[Relational View].[Timesheets].[Start Date]
		Information:

- 5. Click OK
- 6. Double-click your End Date item and rename it to: *Timesheet End Date*

Data Items		Deta
Timesheet Owner		
Timesheet Period		
Timesheet Status		
Approval Status	Data item expression - End Date	
Timesheet Start Date		
T End Date	Name: Timesheet End Date	
	Available Components:	Expression Definition:
	 ✓ ^{poo}_{min} CognosAnalyticsTrainingDemo-A0A2C > ^{boo} Presentation 	[Relational View].[Timesheets].[End Date]

7. Click OK



- 8. Using the **Sources tab** in the **Insertable objects** pane, navigate to: **Presentation > Time Tracking > Timesheet > Timesheets > IDs**, and add the following to your Query:
 - TimesheetID
 - OwnerID
- 9. Using the Sources tab in the Insertable objects pane, navigate to: Presentation > Time Tracking > Timesheet > Timesheets > Timesheet Owner Information, and add the following to your Query:
 - Department Name
- 10. Using the **Sources tab** in the **Insertable objects** pane, navigate to: **Presentation > Time Tracking > Timesheet > Task Work Entries**, and add the following to your Query:
 - Hours Worked
- 11. In the **Data Items box**, click the 🜒 icon to add a new custom Data Item
- 12. Rename the new Data Item: End Date
- 13. In the **Expression Definition** box, insert the following:

CASE WHEN _day_of_week (current_date,6) = 7

THEN (current_date)

ELSE

_add_days(current_date, -_day_of_week (current_date,6))

END





Data item expression - Data Item1

Name: End Date	
Available Components:	Expression Definition: CASE WHEN _day_of_week (current_date,6) = 7 TUEN (current_date, 6) = 7
 ✓ 器 CognosAnalyticsTrainingDemo-A0A2C > 皆 Presentation 	THEN (current_date) ELSE _add_days(current_date,day_of_week (current_date,6)) END
	Information:

14. Click OK

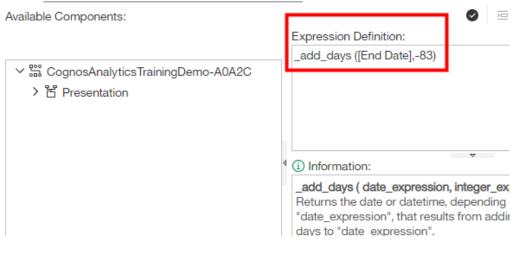
- 15. In the **Data Items box**, click the 🔀 icon to add a new custom Data Item
- 16. Rename the new Data Item: Start Date

17. In the **Expression Definition** box, insert the following:

_add_days ([End Date],-83)

Data item expression - Data Item1

Start Date Name:



18. Click OK



19. Your current list of Data Items should look similar to this:

Data Items	0
Timesheet Owner	
Timesheet Period	
Timesheet Status	
Approval Status	
Timesheet Start Date	
Timesheet End Date	
TimesheetID	
I OwnerID	
🖬 Department Name	
Σ Hours Worked	
🕞 Start Date	

- 20. In the **Detail Filters box**, click the 🚭 icon to add a new custom Filter
- 21. In the **Expression Definition** box, insert the following:

extract(year, [Timesheet Start Date]) between extract(year, _add_years(current_date, -4))
and extract(year, current_date)

22. The finished **Expression Definition** should be:

Detail filter expression - Timesheet Info	
Available Components:	
 ✓ [™] CognosAnalyticsTrainingDemo-A0A2C > [™] Presentation 	Expression Definition: extract(year, [Timesheet Start Date]) between extract(year, _add_years(current_date, -4)) and extract(year, current_date)

23. Click **OK** to close the **Detail filter expression** dialog box





Task 4: Add Data Items to the Approval Query and include Filter

- 1. Navigate to **Data set > Queries** and double-click the *Approval* Query
- Using the Sources tab in the Insertable objects pane, navigate to: Presentation > Approvals > Request
- 3. Drag over the following **Data items**:
 - Type
 - Overall Status
- 2. From the IDs folder, drag over the following Data item:
 - ItemID
- 4. Click-and-drag your *Type* Data Item into the **Detail Filters** box
- 5. In the **Detail filter expression** dialog box, append: = 'Timesheet'

Detail filter expression - Approval

Available Components:		
	Expression Definition:	
CognosAnalyticsTrainingDemo-A0A2C	[Type] = 'Timesheet'	
> 뚭 Presentation		

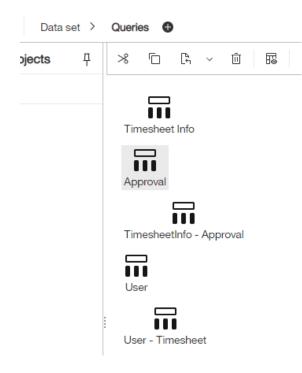
6. Click OK



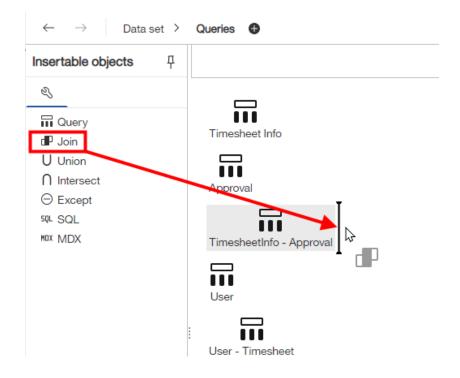


Task 5: Add a Join to the *TimesheetInfo – Approval* Query

1. Navigate to **Data set > Queries**:



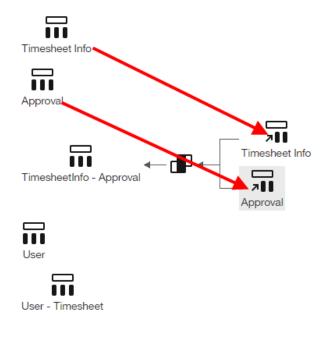
2. From **Insertable objects > Toolbox**, click to select a **Join**, and drag it to the right side of the *TimesheetInfo - Approval* Query:





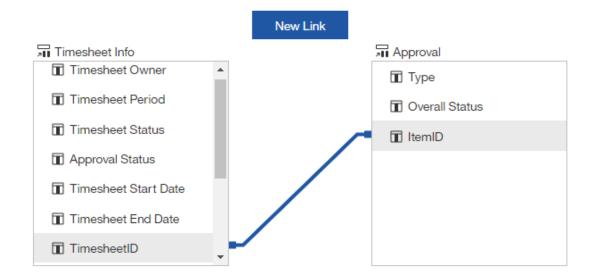


- 3. Into the first of the 2 empty Join sources, click-and-drag the Timesheet Info Query
- 4. Into the second of the 2 empty Join sources, click-and-drag the Approval Query



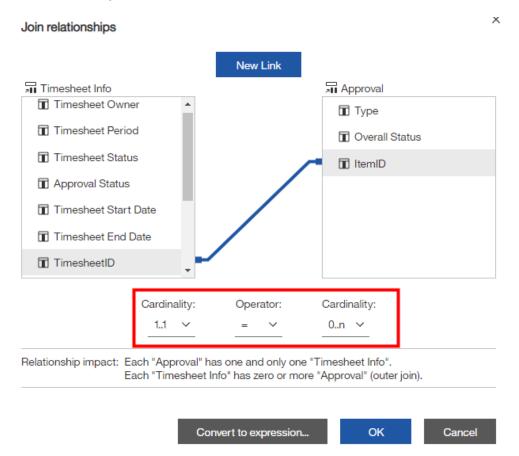
5. Double-click the Join 🔶 🔽 🔶 icon

- 6. In the Join relationships dialog box, click the New Link button
- 7. Establish the connection between *TimesheetID* and *ItemID*:





8. Set the Cardinality values:



- 9. Click OK
- 10. Double-click the *TimesheetInfo Approval* Query
- 11. From Insertable objects > Source, drag over the following items from the joined Timesheet Info:
 - Timesheet Owner
 - Timesheet Status
 - Timesheet Start Date
 - Timesheet End Date
 - OwnerID
 - Department Name
 - Hours Worked





12. From **Insertable objects > Source**, drag over the following items from the joined **Approval**:

• Overall Status

13. Your list of **Data Items** should look like this now:

nsertable objects	₽ ≫ ⊡ ╚, ∽ ⊡
	Data Items
/ 🗗 Join	
✓	Timesheet Owner
Timesheet Owner	🗊 Department Name
Timesheet Period	🖬 OwnerID
Timesheet Status	_
Approval Status	Overall Status
Timesheet Start Date	Σ Hours Worked
Timesheet End Date	Timesheet Start Date
TimesheetID	
OwnerID	Timesheet End Date
Department Name	🗊 Timesheet Status
Σ Hours Worked	•
🖬 Start Date	
🖬 End Date	
✓	
🖬 Туре	
Overall Status	





Task 6: Add Data Items to the User Query and include Filters

- 1. Navigate to **Data set > Queries** and double-click the *User* Query
- Using the Sources tab in the Insertable objects pane, navigate to: Presentation > Enterprise User > Users
- 3. Drag over the following Data items:
 - Organization
 - Full Name
 - Resource Manager
 - Timesheets Required
 - Status
- 3. From the **IDs** folder, drag over the following **Data item**:
 - DirectoryUserID
 - EnterpriseMemberID
 - OwnerID
- 4. Click-and-drag your Timesheets Required Data Item into the Detail Filters box
- 5. In the **Detail filter expression** dialog box, append: = 'Yes'

Detail filter expression - User



- 6. Click OK
- 7. Click-and-drag your *Status* Data Item into the **Detail Filters** box





8. In the **Detail filter expression** dialog box, append: = 'Active'

Detail filter expression - User



9. Click OK

10. Your Data Items and Detail Filters for your User Query should look like this now:

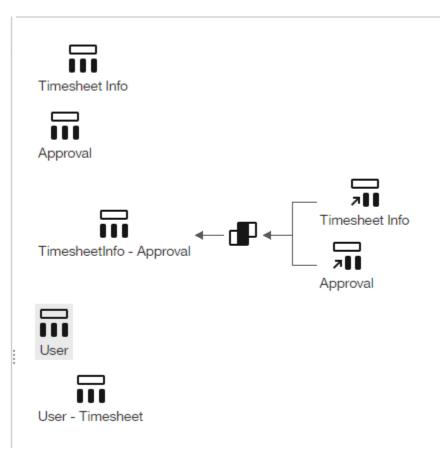
Data set > Queries > User	
% C C C V Ū II	
	1
Data Items	Detail Filters
Organization	⑦ [Timesheets Required] = 'Yes'
T Full Name	√ [Status] = 'Active'
Resource Manager	
Timesheets Required	
T Status	
DirectoryUserID	∑ Summary Filters
T EnterpriseMemberID	
CwnerlD	



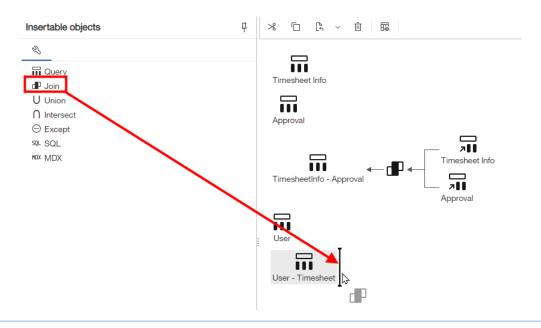


Task 7: Add a Join to the User – Timesheet Query

1. Navigate to **Data set > Queries**:

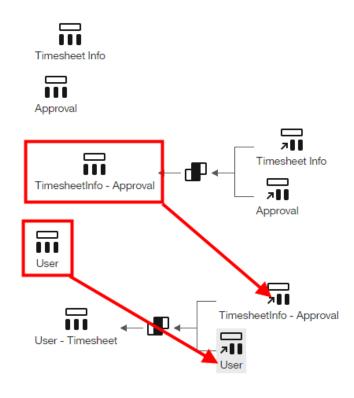


2. From **Insertable objects > Toolbox**, click to select a **Join**, and drag it to the right side of the *User - Timesheet* Query:

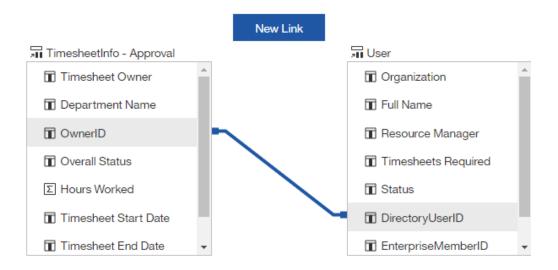




- 3. Into the first of the 2 empty Join sources, click-and-drag the TimesheetInfo Approval Query
- 4. Into the second of the 2 empty Join sources, click-and-drag the User Query



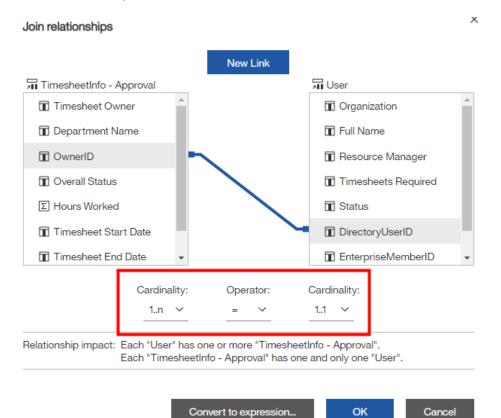
- 5. Double-click the Join 🔶 🗗 🔶 icon
- 6. In the Join relationships dialog box, click the New Link button
- 7. Establish the connection between *OwnerID* and *DirectoryUserID*:







8. Set the Cardinality values:



9. Click OK

Task 8: Add Data Items to the User – Timesheet Query

- 1. Double-click the User Timesheet Query
- 2. From **Insertable objects > Source**, drag over the following **Data Items** from the joined *TimesheetInfo Approval*:
 - Department Name
 - Overall Status
 - Hours Worked
 - Timesheet Start Date
 - Timesheet End Date
 - Timesheet Status





- 3. From **Insertable objects > Source**, drag over the following **Data Items** from the joined *User*:
 - Organization
 - Full Name
 - Resource Manager
 - EnterpriseMemberID

\leftarrow \rightarrow Data set $ ightarrow$ Que	eries > User - Timesheet	
Insertable objects	% 	
	T Data Items	e
∽ d∎ Join		
✓	Resource Manager	
Timesheet Owner	Organization	
Department Name	Department Name	
OwnerID		
Overall Status	Overall Status	
Σ Hours Worked	Σ Hours Worked	
Timesheet Start Date	Timesheet Start Date	
Timesheet End Date	III Timesheet Start Date	
Timesheet Status	Timesheet End Date	
∽ 🖬 User	Timesheet Status	
Organization		
Tull Name	EnterpriseMemberID	
Resource Manager	🖬 Full Name	
Timesheets Required		
I Status		
DirectoryUserID		
EnterpriseMemberID		
OwnerID		

- 4. Remaining on the User Timesheet Query, click the 💿 icon in the **Data Items** to create a new custom Data Item
- 5. Change the Name of the new item to: Unsubmitted Count
- 6. For the Expression Definition, insert:

WHEN 'Unsubmitted'

THEN 1

ELSE 0

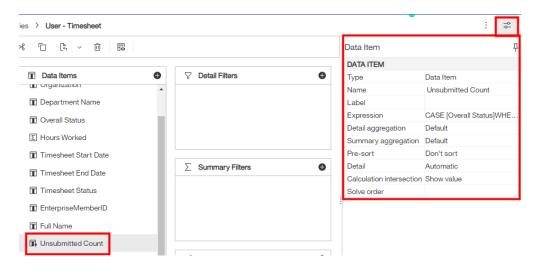
END



Name: Unsubmitted Count		
Available Components:		Ø
 Join TimesheetInfo - Approval Timesheet Owner Department Name OwnerID 	 Expression Definition: CASE [Overall Status] WHEN 'Unsubmitted' THEN 1 ELSE 0 END 	
 Overall Status Hours Worked Timeshout Otent Data 	⁴ ③ Information:	▽

7. Click OK

8. With your Unsubmitted Count Data Item still selected, open the Properties pane:



- 9. In Properties pane > DATA ITEM, set Detail aggregation value to: Total
- 10. Ensure that the Summary aggregation value is set to: Default

Data Item	ę	L
DATA ITEM		
Туре	Data Item	
Name	Unsubmitted Count	
Label		
Expression	CASE [Overall Status]WHE	
Detail aggregation	Total	~
Summary aggregation	Default	
Pre-sort	Don't sort	
	Dontiont	
Detail	Automatic	
Detail Calculation intersection	Automatic	
	Automatic	





- 11. Once again, click the 🚭 icon in the **Data Items** to create a new custom Data Item
- 12. Change the **Name** of the new item to: *Pending Count*
- 13. For the Expression Definition, insert:

WHEN 'Pending'

THEN 1

ELSE 0

Δ

END

Name: Pending Count

wailable Components:	©
 Join TimesheetInfo - Approval Timesheet Owner Department Name OwnerID Overall Status 	Expression Definition: CASE [Overall Status] WHEN 'Pending' THEN 1 ELSE 0 END
	4 m + c - · · · · · · · · · · · · · · · · · ·

14. Click **OK**

- 15. In **Properties pane > DATA ITEM**, set **Detail aggregation** value to: **Total**
- 16. Ensure that the Summary aggregation value is set to: Default





- 17. Once again, click the 🚭 icon in the **Data Items** to create a new custom Data Item
- 18. Change the **Name** of the new item to: *Approved Count*
- 19. For the Expression Definition, insert:

WHEN 'Approved'

THEN 1

ELSE 0

END

Name: Approved Count

Available Components:

✓ n₽ Join	Expression Definition:	
✓	CASE [Overall Status] WHEN 'Approved'	
Timesheet Owner	THEN 1	
Department Name	ELSE 0 END	
T OwnerID	LIND	
Overall Status		~
Σ Hours Worked	Information:	Ť

20. Click **OK**

- 21. In Properties pane > DATA ITEM, set Detail aggregation value to: Total
- 22. Ensure that the Summary aggregation value is set to: Default



0



- 23. Once again, click the 🔮 icon in the **Data Items** to create a new custom Data Item
- 24. Change the **Name** of the new item to: *Declined Count*
- 25. For the Expression Definition, insert:

WHEN 'Declined'

THEN 1

ELSE 0

END

Name: Declined Count





26. Click OK

- 27. In Properties pane > DATA ITEM, set Detail aggregation value to: Total
- 28. Ensure that the Summary aggregation value is set to: Default





- 29. Once again, click the 🜒 icon in the **Data Items** to create a new custom Data Item
- 30. Change the Name of the new item to: Number of Timesheets
- 31. For the Expression Definition, insert:

[Pending Count]+[Approved Count]+[Declined Count]+[Unsubmitted Count]

Name: Number of Timesheets	
Available Components:	
∨ d∎ Join	Expression Definition:
✓	[Pending Count]+[Approved Count]+[Declined Count]+[Unsubmitted Count]
Timesheet Owner	counj
🗊 Department Name	
OwnerID	
Overall Status	~

32. Click OK

- 33. In Properties pane > DATA ITEM, set Detail aggregation value to: Total
- 34. Ensure that the Summary aggregation value is set to: Default
- 35. Once again, click the 🔮 icon in the **Data Items** to create a new custom Data Item
- 36. Change the Name of the new item to: Open Count
- 37. For the Expression Definition, insert:

CASE	[Times	heet	Status]
------	--------	------	---------

WHEN 'Open'

THEN 1

ELSE 0

END

Name:	Open Count
-------	------------

Available Components:

∨ r∎ Join	Expression Definition:	
 ✓ III TimesheetInfo - Approval III Timesheet Owner 	CASE [Timesheet Status] WHEN 'Open' THEN 1 ELSE 0	
 Department Name OwnerID Overall Status 	END	

38. Click OK



39. In Properties pane > DATA ITEM, set Detail aggregation value to: Total

40. Ensure that the Summary aggregation value is set to: Default

41. Your finished list of Data Items for your Main Query should look like this now:

\leftarrow \rightarrow Data set $>$ Queries $>$	User - Timesheet
Insertable objects	% D & v ū 10
<u> </u>	Data Items
 ✓ III Join ✓ III TimesheetInfo - Approval III Timesheet Owner III Department Name III OwnerID III Overall Status III Hours Worked III Timesheet Start Date III Timesheet End Date III Timesheet Status ✓ III User 	 Data Items Resource Manager Organization Department Name Overall Status Hours Worked Timesheet Start Date Timesheet End Date
 Organization Full Name Resource Manager Timesheets Required Status DirectoryUserID EnterpriseMemberID OwnerID 	 Timesheet Status EnterpriseMemberID Full Name Unsubmitted Count Pending Count Approved Count Declined Count Open Count Number of Timesheets





Task 9: Add the Data Items from the Main Query to Page1

1. Navigate to **Data set > Pages > Page1**:

← → Data set > Pages > Page1

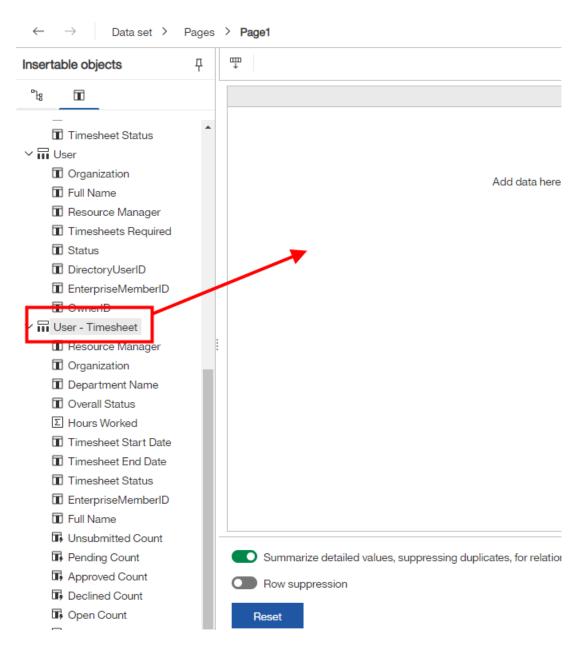
2. In the **Insertable objects** pane, click the **Data Items** tab:

\leftarrow	\rightarrow	Data set >	Pages	> Page1
Inser	table ob	iects	Ŧ	
°la	Ī			
~ 11	Timeshe	et Info	^	
	Times	sheet Owner		
	Times	heet Period		
	Times	heet Status		





3. Click the main Query and drag it to Page1:

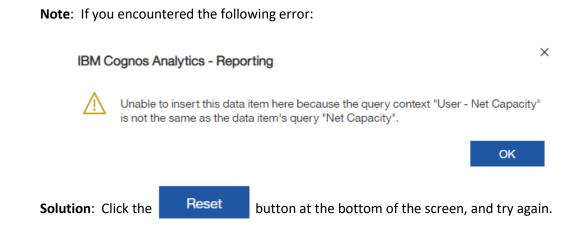


4. The **table** on *Page1* should look like this:

nsertable objects																
°s <u>00</u> s'	Resource Manager	Organization	Department Name	Overall Status	Hours Worked	Timesheet Start Date	Timesheet End Date	Timesheet Status	EnterpriseMemberID	Full Name	Unsubmitted Count	Pending Count	Approved Count	Declined Count	Open Count	Number of Timesheets
Timesheet End Date	<resource Manager></resource 	«Organization»	<department Name></department 	<overall Status></overall 	<hours Worked></hours 	<timesheet Start Date></timesheet 	<timesheet End Date></timesheet 	<timesheet Status></timesheet 	<enterprisememberid></enterprisememberid>	<full Name></full 	<unsubmitted Count></unsubmitted 	<pending Count></pending 	<approved Count></approved 	<declined Count></declined 	<open Count></open 	<number o<br="">Timesheets:</number>
User	<resource Manager></resource 	<organization></organization>	<department Name></department 	<overall Status></overall 	<hours Worked></hours 	<timesheet Start Date></timesheet 	<timesheet End Date></timesheet 	<timesheet Status></timesheet 	<enterprisememberid></enterprisememberid>	<full Name></full 	<unsubmitted Count></unsubmitted 	<pending Count></pending 	<approved Count></approved 	<declined Count></declined 	<open Count></open 	<number o<br="">Timesheets:</number>
Full Name Resource Manager	<resource Manager></resource 	<organization></organization>	<department Name></department 	<overall Status></overall 	<hours Worked></hours 	<timesheet Start Date></timesheet 	<timesheet End Date></timesheet 	<timesheet Status></timesheet 	<enterprisememberid></enterprisememberid>	<full Name></full 	<unsubmitted Count></unsubmitted 	<pending Count></pending 	<approved Count></approved 	<declined Count></declined 	<open Count></open 	<number of<br="">Timesheets:</number>
Timesheets Required																
T Status																
DirectoryUserID																
EnterpriseMemberID																
OwnerID																
VIII User - Timesheet																
Resource Manager																







Task 10: Save the Data Set

1. Click the floppy disk 🔛 icon in the upper left corner of the window:

·CP	
ඛ	← → Data set > Pages > Page1
	Insertable objects ₽
	ିଧ୍ୱ 🔟 Resource Manager
	Timesheet End Date Timesheet Status

- 2. Choose Save as
- 3. Navigate to **My content > Time Compliance > Data Sets**:

Save	as	

My content >	Time Compliance >	Data Sets
		The





4. Provide the following name:

DATA SET – Time Compliance – User and Timesheet

5. Click Save

Task 11: Preview the data in the Data Set

1. Remaining on **Page1**, change from **Page design** view to **Page preview**:

	DATA SET - Time Compliance - User and Timesheet * 🗸 🕠									8	?
ges > Page1								•	desigr Page d	esign	-
Resource Manager	Organization	Department Name	Overall Status	Hours Worked	Timesheet Start Date	Timesheet End Date	Timesheet Status		Page p	review	₿.
<resource Manager></resource 	<organization></organization>	<department Name></department 	<overall Status></overall 	<hours Worked></hours 	<timesheet Start Date></timesheet 	<timesheet End Date></timesheet 	<timesheet Status></timesheet 	<ente< td=""><td>rpriseN</td><td>/lembe</td><td>rID></td></ente<>	rpriseN	/lembe	rID>
<resource Manager></resource 	<organization></organization>	<department Name></department 	<overall Status></overall 	<hours Worked></hours 	<timesheet Start Date></timesheet 	<timesheet End Date></timesheet 	<timesheet Status></timesheet 	<ente< td=""><td>rpriseN</td><td>/lembei</td><td>rID></td></ente<>	rpriseN	/lembei	rID>
<resource Manager></resource 	<organization></organization>	<department Name></department 	<overall Status></overall 	<hours Worked></hours 	<timesheet Start Date></timesheet 	<timesheet End Date></timesheet 	<timesheet Status></timesheet 	<ente< td=""><td>rpriseN</td><td>/lember</td><td>rID></td></ente<>	rpriseN	/lember	rID>

2. A subset of the data in your **Data Set** will appear in the table:

Ţ										
Resource Manager	Organization	Department Name	Overall Status	Hours Worked	Start Date	End Date	Timesheet Status	EnterpriseMemberID	Full Name	Un
Billy Hargrove		Engineering	Approved		1/24/21	1/30/21	Closed	{E296E596-B486- 45E2-8C3E- 1C1CEB382501}	Rebecca Thomas	
Billy Hargrove		Engineering	Approved		2/14/21	2/20/21	Closed	{E296E596-B486- 45E2-8C3E- 1C1CEB382501}	Rebecca Thomas	
Billy Hargrove		Engineering	Approved		3/7/21	3/13/21	Closed	{E296E596-B486- 45E2-8C3E- 1C1CEB382501}	Rebecca Thomas	
Billy Hargrove		Engineering	Approved		3/14/21	3/20/21	Closed	{E296E596-B486- 45E2-8C3E- 1C1CEB382501}	Rebecca Thomas	
Billy Hargrove		Engineering	Approved		3/28/21	4/3/21	Closed	{E296E596-B486- 45E2-8C3E- 1C1CEB382501}	Rebecca Thomas	
Dillo		Engineering	Approved		4/11/01	4/47/04	Closed	(E000E500 D400	Debaaaa	





Exercise 4 (Data Sets): Refresh your Data Sets

Scenario:

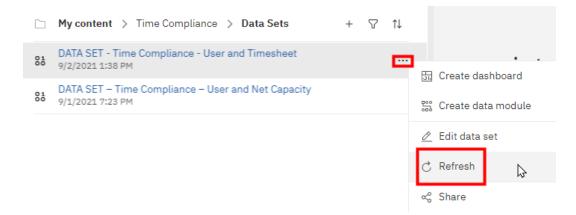
You want to ensure that the data in your **Data Sets** is up-to-date.

Task 1: Select your Data Items and apply Filters

1. Navigate to your Data Sets Folder:

CP Changepoint Analytics								
Home	□ My content > Time Compliance > Data Sets + ♡ ↓							
Q Search	DATA SET - Time Compliance - User and Timesheet 9/2/2021 1:38 PM							
My content	BATA SET – Time Compliance – User and Net Capacity 9/1/2021 7:23 PM							
Team content								
() Recent								

2. Use the **More menu** and select \bigcirc Refresh :



3. When you see the success message (below), refresh your second Data Set:

 Your data set DATA SET - Time Compliance - User and Timesheet refreshed successfully.



 \times



Exercise 5 (Data Module): Create the Data Module

Scenario:

Now that you have created your Data Sets, the next step is to organize them into a **Data Module** and establish the relationship between the Data Sets.

Task 1: Select your Data Sets and create a Data Module

4. Navigate to your Data Sets Folder:

CP Changepoint An	alytics	
Home	My content > Time Compliance > Data Sets	+ ♡ ↑↓
Q Search	DATA SET - Time Compliance - User and Timesheet 9/2/2021 1:38 PM	
My content	DATA SET – Time Compliance – User and Net Capacity 9/1/2021 7:23 PM	
Team content		
C Recent		

1. Click to select your first **Data Set**, then Ctrl+click your second **Data Set**. Click to the side or beneath, so that you avoid <u>opening</u> either Data Set:



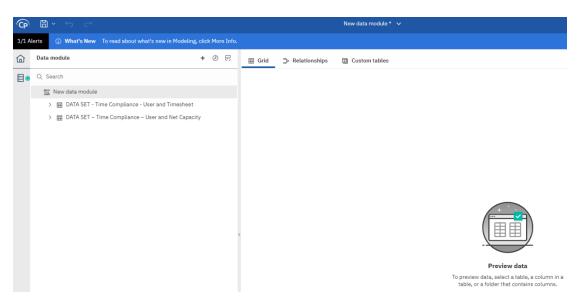
2. With both Data Sets selected, use the **More menu** in the upper right and select **Create data module**







3. Your screen should look like this:



4. Confirm that your **Data Sets** have data in them, by clicking to expand any one Data Item. It should expand and show you the contents of the Data Item:

ඛ	Data module	+	Ø	\$¢	🖽 Grid	Relationships
: 0	Q. Search					
	😳 New data module					
	✓					
	> abc Resource Manager					
	> abc Organization					
	Department Name					
	- Engineering					
	📥 Finance					
	- IT					
	📥 Marketing					
	😑 Operations					
	- Null					
	> abc Overall Status					
	E Hours Worked					

5. Collapse the expanded view so that you see only the 2 Data Sets again:

s New data module

- > 🚍 DATA SET Time Compliance User and Timesheet
- > 🖽 DATA SET Time Compliance User and Net Capacity



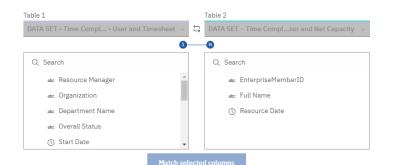
Task 2: Create the relationship between the Data Sets

- 1. Click to select your first Data Set, then Ctrl+click your second Data Set
- 2. Right-click and choose New > Relationship...

Data module	+	Ø	⊕,	🖽 Grid	🕞 Rel	ationships
Q Search						
😳 New data module						
> 🖽 DATA SET - Time Compliance - User and Timesheet						
> 🖽 DATA SET – Time Compliance – User and Net Capa	city				_	
			Ne	w		
				品 Relationshi	p	
				🖽 Table		
			ø	Hide from users	5	
			Θ	Remove		

3. The Create relationship dialog box appears:

Create relationship



Resource Manager	Organization	Department Name	Overall Status		EnterpriseMemberID	Full Name	Net Capacity Hours	Resource Date
Billy Hargrove		Engineering	Approved		{10880432-29D4- 45A6-BCDC- 0AB7C7667A4F}	Alison Tatlock	8,360.00	12/30/17
Billy Hargrove		Engineering	Approved		{10880432-29D4- 45A6-BCDC- 0AB7C7667A4F}	Alison Tatlock	8,360.00	1/6/18
Billy Hargrove		Engineering	Approved		{10880432-29D4- 45A6-BCDC- 0AB7C7667A4F}	Alison Tatlock	8,360.00	1/13/18
4			+ ×	•	(40000400 00D4	1		•

Inner join, 1-to-many, No filtering.

0 Matched columns

Cancel

planview, training services



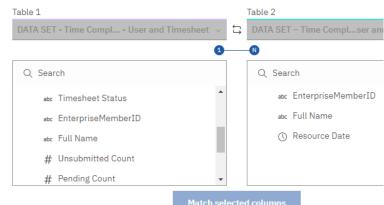
4. Click select **EnterpriseMemberID** in both sides, then click the **Match selected columns** button:

	Т	able 1		Table 2			
		DATA SET - Time Compl User and Tim	nesheet 🗸 🔓	DATA SET – Tin	ne Complser and Net Capa	city 🗸	
EnterpriseMemberID		Q. Search	3	Q Search		EnterpriseMemberID	
<pre>{E296E596-B486- 45E2-8C3E- 1c1cEB382501} {E296E596-B486- 45E2-8C3E- 1c1cEB382501} {E296E596-B486- 45E2-8C3E- 45E2-8C3E-</pre>	Â	abc Timesheet Status abc EnterpriseMemberID abc Full Name # Unsubmitted Count # Pending Count		abc Full N	rpriseMemberID Name urce Date	{10880432-29D4- 45A6-BCDC- 0AB7C7667A4F} {10880432-29D4- 45A6-BCDC- 0AB7C7667A4F} {10880432-29D4- 45A6-BCDC-	

5. Click the Refresh button

6. Confirm that the Relationship Type is Inner join, 1-to-1, No filtering

Create relationship



Match selected columns

Declined Count	Open Count	Number of Timesheets	EnterpriseMemberID	Full Name
			EnterpriseMemberID	
0	1	0	{10880432-29D4- 45A6-BCDC- 0AB7C7667A4F}	Alison Tatlock
0	1	0	{10880432-29D4- 45A6-BCDC- 0AB7C7667A4F}	Alison Tatlock
0	1	0	{10880432-29D4- 45A6-BCDC- 0AB7C7667A4E}	Alison Tatlock
	0	0 1 0 1	0 1 0 0 1 0	Declined Count Open Count Number of Timesneets EnterpriseMemberID 0 1 0 45A6-BCDC- 0AB7C7667A4F} 0 1 0 45A6-BCDC- 0AB7C7667A4F}

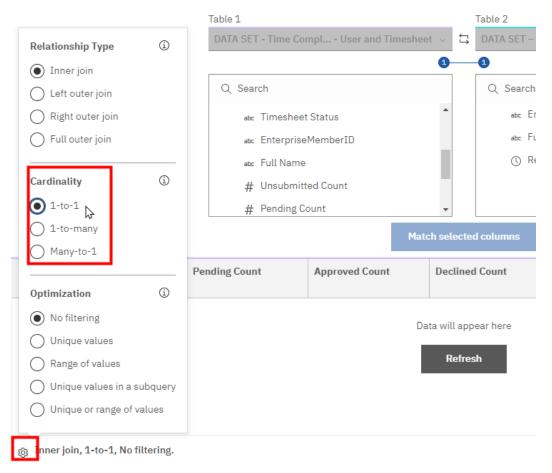
👸 Inner join, 1-to-many, No filtering.





7. If <u>incorrect</u>, click the 🕸 menu and set the **Cardinality** to **1-to-1**

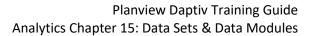
Create relationship



8. Match a 2nd set of columns: click to select **Start Date** and **Resource Date** in the boxes, then click the **Match selected columns** button:

Create relationship							
	Table 1		Table 2				
	DATA SET - Time	Compl User and Times	heet ~ 🛱 DATA SET -	- Time Complser and I	Net Capacity 🗸		
Start Date	Q Search		Q Searc	h		Resource	Date
1/24/21	Start D	ate	abc E	interpriseMemberID		12/30/17	,
2/14/21	() End Da	te		abc Full Name		1/6/18	
3/7/21		neet Status riseMemberID		Resource Date		1/13/18	
3/14/21	✓ abc Full Na		•	_		1/20/18	
		N	fatch selected columns				
Declined Count	Open Count	Number of Timesheets	EnterpriseMemberID	Full Name	Net Capacity	Hours	Resource Date
			EnterpriseMemberID				
0	1	0	{10880432-29D4- 45A6-BCDC-	Alison Tatlock	8,360.00		12/30/17

9. Click the **Refresh** button

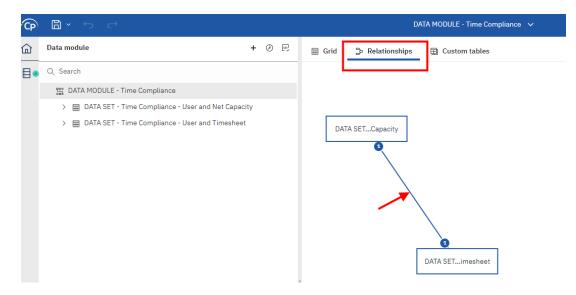




10. Several rows will populate to preview the matched columns of data:

EnterpriseMember1D Start Date Constraint Constraint <th< th=""><th>dit relationship</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>	dit relationship							
Image: Search @ Search #: EnterpriseMemberID #: Full Name @ Resource Manager @ Start Date @ EnterpriseMemberID #: Overall Status @ Start Date @ EnterpriseMemberID Resource Date Resource Manager @ Start Date @ EnterpriseMemberID Resource Date Resource Manager Department Name @ Start Date @ EnterpriseMemberID Start Date Mison Tatlock 40.00 (10880432-29D4-4) 8/22/21 Report Trainer Nutl Pending Nutl Alison Tatlock 40.00 (10880432-29D4-4) 8/29/21 Report Trainer Nutl Nutl Nutl Alison Tatlock 40.00 (10880432-29D4-4) 8/29/21 Report Trainer Nutl Nutl Nutl								
Q. Search ex: EnterpriseMemberID ex: Full Name () Resource Date () Resource Date () Start Date () End Date () End Date () Start Date () End Date Full Name Ket Capacity Hours EnterpriseMemberID Ket Capacity Hours Resource Date () Start Date () End Date () End Date () End Date () Start Date () End Date () Start Date () End Date () End Date () Resource Date Verall Status () End Date Verall Status Ve		DATA S	GET - Time Complser and I	Net Capacity 🗸 🗄	DATA SET - Time Compl	User and Timesheet 🖂		
##: EnterpriseMemberID ##: Resource Manager ##: Full Name @ Resource Date @ Resource Date @ Start Date @ Ent Date @ EnterpriseMemberID Match setected cotumus Full Name Resource Date Resource Manager @ Start Date @ Ent Date @ EnterpriseMemberID Start Date @ EnterpriseMemberID Start Date @ Coverall Status @ InterpriseMemberID Resource Date Resource Manager Department Name @ InterpriseMemberID Resource Date @ InterpriseMemberID Start Date @ InterpriseMemberID Resource Date				0	-0			
#x Full Name #x Department Name #x Overall Status • <td></td> <td>Qs</td> <td>earch</td> <td></td> <td>Q Search</td> <td></td> <td></td> <td></td>		Qs	earch		Q Search			
Image: Second			abc EnterpriseMemberID		abc Resource Manage	er 🔺		
Image: Start Date Image: Start Date Image: Start Date Image: Start Date Image: Start Date Image: Start Date Image: Start Date Image: Start Date Image: Start Date Alison Tatlock 40.00 45A6-8CDC- 0AB7C7667A4F) 8/22/21 Report Trainer Null Pending Null Alison Tatlock 40.00 45A6-8CDC- 0AB7C7667A4F) 8/29/21 Report Trainer Null Null Null Alison Tatlock 40.00 45A6-8CDC- 0AB7C7667A4F) 9/5/21 Report Trainer Null Null Null			abc Full Name		abc Department Nam	e 🖉		
O End Date Match selected columns Full Name Department Name Overall Status Hours Full Name Net Capacity Hours EnterpriseMember/10 Resource Date Resource Manager Department Name Overall Status Hours Alison Tatlock 40.00 45A6-8CDC- 0AB7C76677A4F; 8/22/21 Report Trainer Null Pending Null Alison Tatlock 40.00 45A6-8CDC- 0AB7C76677A4F; 8/29/21 Report Trainer Null Null Null Alison Tatlock 40.00 45A6-8CDC- 0AB7C76677A4F; 9/5/21 Report Trainer Null Null Null			Resource Date		abc Overall Status			
Match selected columns Match selected columns Full Name Net Capacity Hours EnterpriseMember10 Resource Date Resource Manager Department Name Overall Status Hours Alison Tatlock 40.00 45A6-BCDC- 0AB7C76677AFF 8/22/21 Report Trainer Null Pending Null Alison Tatlock 40.00 45A6-BCDC- 0AB7C76677AFF 8/29/21 Report Trainer Null Null Null Alison Tatlock 40.00 45A6-BCDC- 0AB7C76677AFF 8/29/21 Report Trainer Null Null Null Alison Tatlock 40.00 45A6-BCDC- 0AB7C76677AFF 9/5/21 Report Trainer Null Null Null					③ Start Date			
Full Name EnterpriseMemberID Resource Date Resource Manager Department Name Overall Status Hours Alison Tatlock 40.00 45A6-BCDC- 0AB7C7667A4F} 8/22/21 Report Trainer Null Pending Null Alison Tatlock 40.00 45A6-BCDC- 0AB7C7667A4F} 8/29/21 Report Trainer Null Null Null Alison Tatlock 40.00 45A6-BCDC- 0AB7C7667A4F} 8/29/21 Report Trainer Null Null Null Alison Tatlock 40.00 45A6-BCDC- 0AB7C7667A4F} 9/5/21 Report Trainer Null Null Null					③ End Date	-		
Function EnterpriseMember10 Start Date Report Trainer Null Pending Pending Null Alison Tatlock 40.00 45A6-8CDC- 0AB7C7667A4F) 8/22/21 Report Trainer Null Pending Null Alison Tatlock 40.00 45A6-8CDC- 0AB7C7667A4F) 8/29/21 Report Trainer Null Null Null Alison Tatlock 40.00 45A6-8CDC- 0AB7C7667A4F) 8/29/21 Report Trainer Null Null Null Alison Tatlock 40.00 45A6-8CDC- 0AB7C7667A4F) 9/5/21 Report Trainer Null Null Null	Full Name	Not Consoity Hours	EnterpriseMemberID			Department Name	Overall Status	Hours We
Alison Tatlock 40.00 45A6-BCDC- 0AB7C7667A4F} (108B032-29D4- 45A6-BCDC- 0AB7C7667A4F) 8/22/21 Report Trainer Null Pending Null Alison Tatlock 40.00 45A6-BCDC- 0AB7C7667A4F) 8/29/21 Report Trainer Null Null Null Alison Tatlock 40.00 45A6-BCDC- 0AB7C7667A4F) 8/29/21 Report Trainer Null Null Null Alison Tatlock 40.00 45A6-BCDC- 0AB7C7667A4F) 9/5/21 Report Trainer Null Null Null	ruuname	Net Capacity Hours		Start Date	Resource Hanager	Department nume	overall status	nours we
Alison Tatlock 40.00 45A6-BCDC- 0AB7C7667A4F} 8/29/21 Report Trainer Null Null Null Alison Tatlock 40.00 45A6-BCDC- 45A6-BCDC- 0AB7C7667A4F} 9/5/21 Report Trainer Null Null Null	Alison Tatlock	40.00	45A6-BCDC-	8/22/21	Report Trainer	Null	Pending	Null
Alison Tatlock 40.00 45A6-BCDC- 9/5/21 Report Trainer Null Null Null	Alison Tatlock	40.00	45A6-BCDC-	8/29/21	Report Trainer	Null	Null	Null
	Alison Tatlock	40.00	45A6-BCDC-	9/5/21	Report Trainer	Null	Null	
	4							+

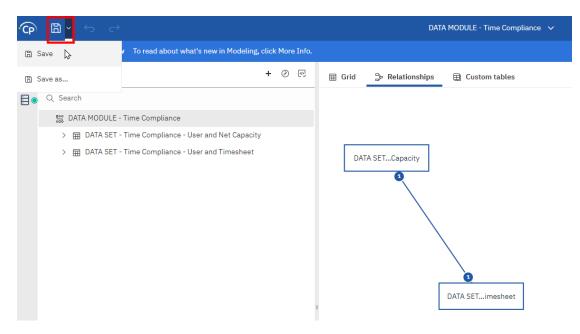
- 11. Click OK to close the Create relationship dialog box
- 12. Change from **Grid view** to **Relationships view** to see a graphical representation of the Data Sets' connection. (Double-click the blue line to make edits to the relationship, if necessary.)



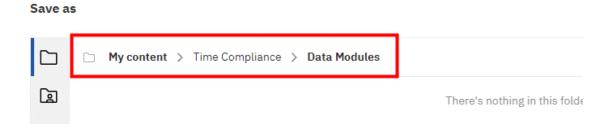
Cancel



13. Click the disk icon, then Save as...:



14. Navigate to **My content > Time Compliance > Data Modules**:



- 15. Provide a descriptive name: DATA MODULE Time Compliance
- 16. Click **OK**



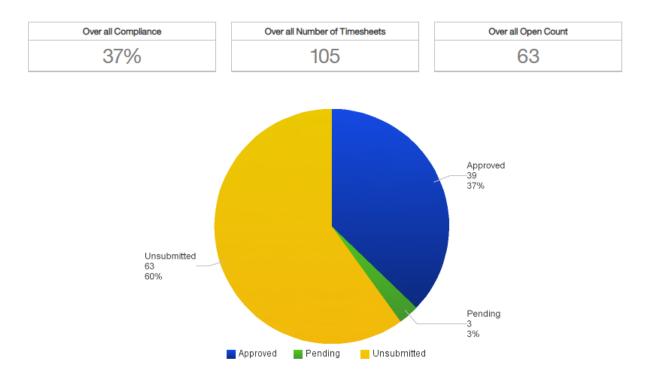


Exercise 6 (Data Module): Import or Create a Time Compliance Report and Point it to Your New Data Module

Scenario:

A common Time Compliance report (see below) that queries against the Net Capacity data in your main Cognos Data Model can be very time-consuming. For better performance, point a Time Compliance report to run against your new *Time Compliance Data Module*.





Resource Manager	Compliance (%)	Number of Timesheets	Open	Pending	Approved	Declined	Unsubmitted
Billy Hargrove	67%	12	4	0	8	0	4
Claudia Henderson	42%	12	7	0	5	0	7
Matt Duffer	55%	11	2	3	6	0	2
Nancy Wheeler	58%	12	5	0	7	0	5
Report Trainer	18%	40	33	0	7	0	33
Will Byers	33%	18	12	0	6	0	12
Overall	37%	105	63	3	39	0	63





Task 1: Create a new <blank> report

1. Using the left-side navigation menu in the Analytics portal, click the + icon, then click **Report**:

CP	Changepoint Anal	l ytics Welcome V ···· 🗘 📍
ඛ		Show welcome
Q		
	He	llo. Welcome to Changepoint Analytics
æ		,
0	Recent	
000	Data module	
10	Dashboard	+ .
Ē	Report	
€	Story	
+ •		

2. Click the **OK** button:

·CP		Reporting 🗸	~
	Templates and themes		•
	Templates Themes		
+•	Blank	√ ~	This page uses flow layout will be arranged top-to-botti word processing docume objects here to add them to





Task 2: Import XML report

1. Double-click to open the XML text file embedded here:



2. Select and copy the entire block of text in the XML text file:

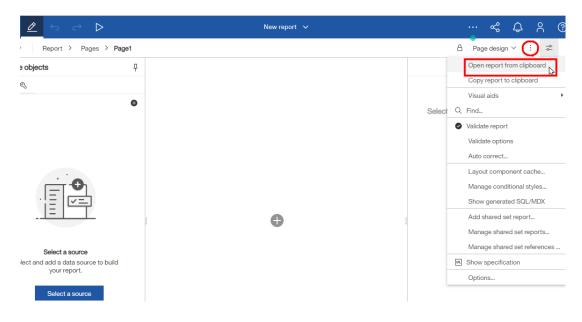
ime_compliance_report (2) - Notepad	_		Х
File Edit Format View Help			
<pre><report <="" pre="" xmlns="http://developer.cognos.com/schemas/report/15.5/"></report></pre>			^
expressionLocale="en-us" useStyleVersion="11.6">			
<pre><drillbehavior></drillbehavior> <layouts></layouts></pre>			
<layout></layout>			
<pre><reportpages></reportpages></pre>			
<pre><pre>cpage name="Page1"></pre></pre>			
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<pre><pre>content</pre></pre>	vle>		
GL	yie>		
<defaultstyles></defaultstyles>			
<defaultstyle refstyle="pb"></defaultstyle>			
	S value="te	xt-	
align:center;font-size:9pt"/>			
<contents><style><CSS value="border-collapse:collapse;margin- top:20px"/><defaultStyles><defaultStyle refStyle="tb"/><defaultStyle</td><td></td><td></td><td></td></tr><tr><td>refStyle="GuidedLayoutMargin"/></defaultStyle></style><tablerows><tablerow< td=""><td>><tablecell< td=""><td>s≻<tab< td=""><td>le</td></tab<></td></tablecell<></td></tablerow<></tablerows></contents>	> <tablecell< td=""><td>s≻<tab< td=""><td>le</td></tab<></td></tablecell<>	s≻ <tab< td=""><td>le</td></tab<>	le
Cell> <contents></contents>			

3. Return to your new <blank> report





4. Click the **More menu** in the upper right, then click **Open report from clipboard**:



5. Subsequently, in the new **Open report from clipboard** window, **paste** the text you copied from the XML text file:

Emoji	Win+Period			
Undo	Ctrl+Z			
Redo	Ctrl+Shift+Z			
Cut	Ctrl+X			
Сору	Ctrl+C			
Paste	Ctrl+V			
Paste as plain text Ctrl+Shift+V				
Select all	Ctrl+A			
Spell check		•		
Writing Direction		•	 	
Inspect				_

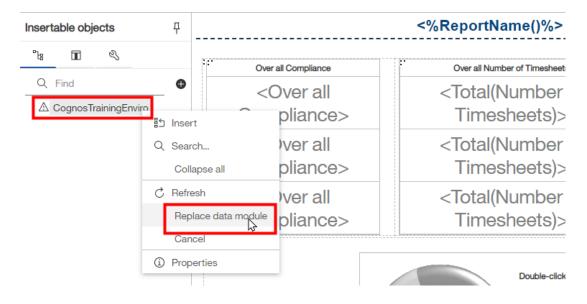
6. Click OK



7. You will encounter the following warning message, which is to be expected:

The latest package information could not be loaded. The package this report is referencing may no longer exist. Package metadata is required for proper operation of the user interface. Certain elements of the report definition may not be viewable or editable.

- 8. Click the **X** to close the warning (above)
- 9. In the **Insertable objects** pane, **right-click** the invalid package name, then click **Replace data module**:



10. Click **OK** in the subsequent warning:





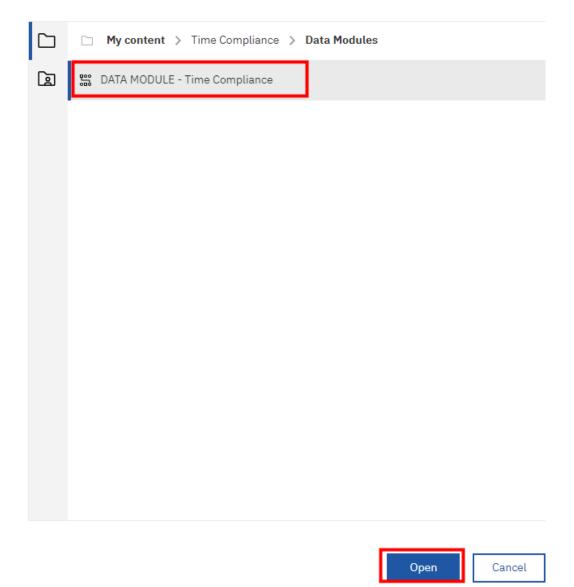


11. In the **Open file** window that appears, navigate to the location where you saved your new *Time Compliance* **Data Module**:

le
My content > Time Compliance > Data Modules
😁 DATA MODULE - Time Compliance

12. Click to select your new *Time Compliance* Data Module, then click **Open**:

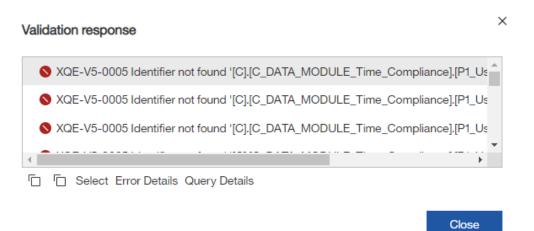
Open file







13. You will see a **Validation response** informational window that highlights several errors. This is to be expected. You will resolve these errors below. Click **Close** to close the window:



14. At this moment, you should see your Data Module and its constituent Data Sets listed in the **Insertable objects pane > Sources tab**:

Insertable objects	무
°ta 🔟 🔍	
Q Find	Ð
〜 端 DATA MODULE - Time Compliance	
> 🖽 DATA SET - Time Compliance - User and Net	Capacity
> 🖽 DATA SET - Time Compliance - User and Tim	esheet

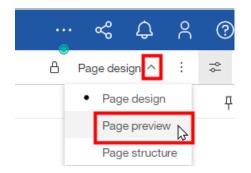




15. You should also see the report structure in the **report canvas area**:

				<%R	eportNam	ne()%>							
	9 :	Over all Compliance			Over all Numb	per of Timesheets			Over all (Open C	Count		
	<over< td=""><td>all Compliar</td><td>nce></td><td><total(< td=""><td>Number</td><td>of Times</td><td>heets)></td><td><</td><td>Total</td><td>(Op</td><td>en</td><td>)></td><td></td></total(<></td></over<>	all Compliar	nce>	<total(< td=""><td>Number</td><td>of Times</td><td>heets)></td><td><</td><td>Total</td><td>(Op</td><td>en</td><td>)></td><td></td></total(<>	Number	of Times	heets)>	<	Total	(Op	en)>	
	<over< td=""><td>all Compliar</td><td>nce></td><td><total(i< td=""><td>Number</td><td>of Times</td><td>heets)></td><td><</td><td>Total</td><td>(Op</td><td>en</td><td>)></td><td></td></total(i<></td></over<>	all Compliar	nce>	<total(i< td=""><td>Number</td><td>of Times</td><td>heets)></td><td><</td><td>Total</td><td>(Op</td><td>en</td><td>)></td><td></td></total(i<>	Number	of Times	heets)>	<	Total	(Op	en)>	
		all Compliar				of Times		<total(open)></total(open)>					
F													
-	Resource Manager A <resource manager=""></resource>	Compliance (%) <compliance (%)=""></compliance>		f Timesheets er of Timesheets>	Open <open></open>	Pending <pending></pending>	Approved <approved></approved>	-	e clined <declined< th=""><th>1</th><th>-</th><th>ubmitte Unsubm</th><th></th></declined<>	1	-	ubmitte Unsubm	
-	<resource manager=""></resource>	<compliance (%)=""></compliance>				<approved></approved>			-	T		, بر	
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	Overall - Total	<over all="" compliance=""></over>	<total(numbe< td=""><td>r of Timesheets)></td><td><total(open)></total(open)></td><td><total(pending)></total(pending)></td><td><total(approved)></total(approved)></td><td><total< td=""><td>(Declined)</td><td>⊳ ⊲</td><td>Total(L</td><td>Jnsubm</td><td>itted</td></total<></td></total(numbe<>	r of Timesheets)>	<total(open)></total(open)>	<total(pending)></total(pending)>	<total(approved)></total(approved)>	<total< td=""><td>(Declined)</td><td>⊳ ⊲</td><td>Total(L</td><td>Jnsubm</td><td>itted</td></total<>	(Declined)	⊳ ⊲	Total(L	Jnsubm	itted

16. To quickly verify if this report is functional, change from **Page design view** to **Page preview view**:







17. You will encounter a warning message and an option to view Details:

The report could not run because a server error occurred.

Options:

- 🗘 Undo
- · Switch to page design view
- Auto correct the problems
- Close this report

Details:

XQE-V5-0005 Identifier not found '[C].[C_DATA_MODULE_Time_Compliance].[P1_User_Timesheet_C RSV-SRV-0042 Trace back:

RSReportService.cpp(764): XQEException: CCL_CAUGHT: RSReportService::processImpl() RSReportServiceMethod.cpp(262): XQEException: CCL_RETHROW: RSReportServiceMethod::proc RSASyncExecutionThread.cpp(887): XQEException: RSASyncExecutionThread::checkException RSASyncExecutionThread.cpp(331): XQEException: CCL_CAUGHT: RSASyncExecutionThread::runl RSASyncExecutionThread.cpp(932): XQEException: CCL_RETHROW: RSASyncExecutionThread::p Execution/RSRenderExecution.cpp(585): XQEException: CCL_RETHROW: RSRenderExecution::exe Assembly/RSDocAssemblyDispatch.cpp(340): XQEException: CCL_RETHROW: RSLayoutAssemblyDis Assembly/RSDocAssemblyDispatch.cpp(449): XQEException: CCL_RETHROW: RSLayoutAssemblyDispatch.cpp(185): XQEException: CCL_RETHROW: RSDocAssemblyDispatch.cpp(185): XQEException: CCL_RETHROW: RSDocAssemblyDispatch.cpp(185): XQEException: CCL_RETHROW: RSDocAssemblyDispatch.cpp(185): XQEException: CCL_RETHROW: RSReportPagesAssemblyDispatch.cpp(385): XQEException: CCL_RET

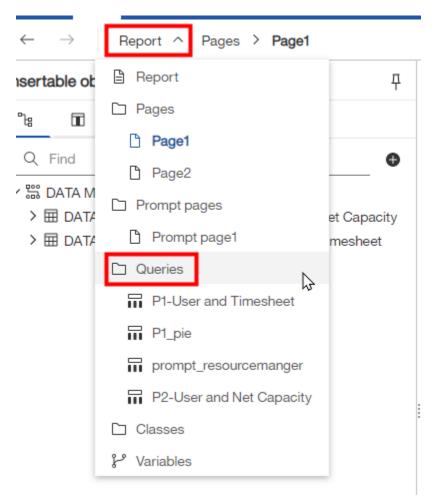
• **Note**: You will fix these errors in the next task below.



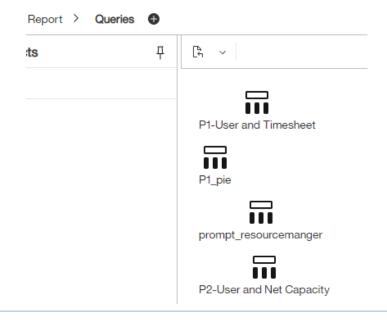


Task 3: Update the name references to the Data Items in your Queries

1. Navigate to the list of Queries:



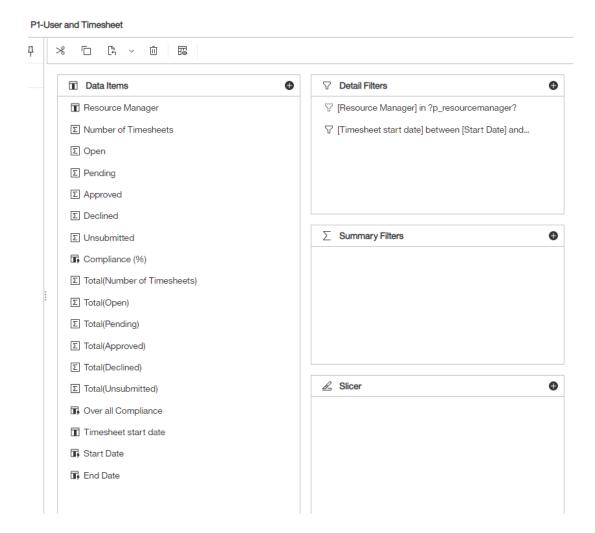
2. You will see 4 separate Queries that were imported as part of the XML text file:







3. Double-click to open the first Query P1-User and Timesheet:



4. Confirm that this Query has **errors** by viewing the tabular data:

Ͳ									
	Data Items								
	Resource Manager								
	Σ Number of Timesheets								
	Σ Open								

P1-User and Timesheet



5. Look for an important clue in the first line of the error message:

	The report could not run because a server error occurred.
	Options: • C Refresh
~	Close this report Details:
	XQE-V5-0005 Identifier not found '[C].[C_DATA_MODULE_Time_Compliance].[P1_User_Timesheet_0].[Resource_Manager]'. RSV-SRV-0042 Trace back: RSReportService.cpp(764): XQEException: CCL_CAUGHT: RSReportService::processImpl() RSReportServiceMethod.cpp(262): XQEException: CCL_RETHROW: RSReportServiceMethod::process(): asynchRunSpecific

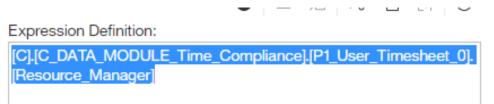
6. Return to your report Query (P1-User and Timesheet)

Data item expression - Resource Manager

7. Double-click the first Data Item (Resource Manager) to open its Expression Definition:

Name:	Resource Mar	nager			
Available	Components:				
					Expression Definition:
> 🖽	ATA MODULE DATA SET DATA SET	Time Comp	liance - l	User and	[C].[C_DATA_MODULE_Time_Compliance].[P1_User_Timesheet_0]. [Resource_Manager]
					i) Information:
4				Þ	
°1a		(3)	(x)	\bigcirc	Tips Errors

8. Triple-click the Expression Definition to select all the text:





 \times



9. Double-click the Resource Manager Data Item in your Data Module:

Expression Definition:
[C].[C_DATA_MODULE_Time_Compliance].[P1_User_Timesheet_0]. [Resource_Manager]

10. Note the revised **Expression Definition**, that now matches <u>your</u> Data Set nomenclature:

```
Expression Definition:
[C].[C_DATA_MODULE_Time_Compliance].[User_Timesheet_0].
[Resource_Manager]
```

- 11. Click **OK** to close the **Data item expression** dialog box
- 12. Repeat for the remaining Data Items in the Query

Note: you do not have to modify the following:

- Compliance (%)
- Total(Number of Timesheets)
- Total(Open)
- Total(Pending)
- Total(Declined)
- Total(Unsubmitted)
- Over all Compliance





Note: [Timesheet_Start_Date] in your imported Expression Definition needs to be replaced by your **Data Item** called Start Date

Data item expression - Timesheet start date

Name:	Timesheet start date		
Availabl	e Components:		
>	DATA MODULE - Time Compliance		[C].[C_DATA_MODULE_Time_Compliance].[P1_User_Timesheet_0]. Timesheet_Start_Date]
	abc Department Name abc Overall Status L Hours Worked Start Date U End Date	4	
	abc Timesheet Status	ľ	(i) Information:

13. Navigate to the next Query called *P1_pie*:

Report > Queries 2	P1-User and Timesheet				
ts	P1-User and Timesheet				
	P1_pie	_			
tion	prompt_resourcemanger				
lion	P2-User and Net Capacity				
r set	Σ Number of Timesheets				
	Σ Open				

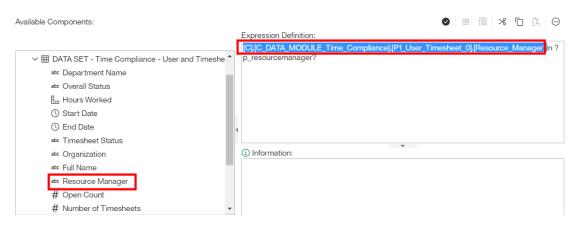
14. Open the Data Item *Overall Status* and fix its Expression Definition:

Name: Overall Status	
Available Components:	
	Expression Definition:
✓	[C].[C_DATA_MODULE_Time_Compliance].[P1_User_Timesheet_0].[Overall_Status]
abc Department Name	
abc Overall Status	
L Hours Worked	
() Start Date	

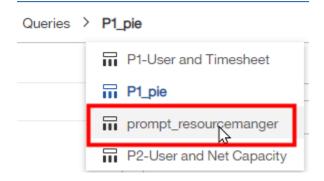




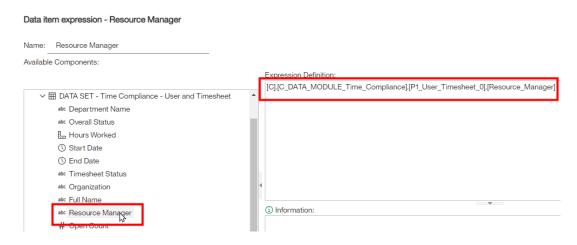
15. Open the **second Detail Filter** and correct its Expression Definition:



16. Navigate to the next Query called *prompt_resourcemanger*:



17. Double-click the Resource Manager Data Item and fix its Expression Definition:



18. Navigate to the final Query called P2-User and Net Capacity:



Queries	>	prompt_resourcemanger
		P1-User and Timesheet
	t	P1_pie
	L	prompt_resourcemanger
	ſ	P2-User and Net Capacity

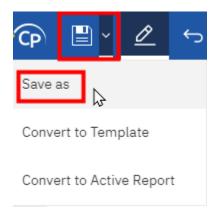
- 19. Correct the following Data Items by replacing their Expression Definitions with the proper Data Items from your Data Module:
 - Resource Manager
 - Full Name
 - Net Capacity Hours
 - Hours Worked
 - Overall Status
 - Timesheet Status
 - Time sheet start date
 - End Date
 - Resource Date





Task 4: Save your new report

1. Click the floppy disk icon, then click **Save as**:



2. Navigate to your previously defined **Reports folder**:





3. Provide a **name** for your new report, then click **Save**:

Save as: REPORT - Time Compliance - based on Data Module

Save





Task 5: Run your new Time Compliance report from Daptiv > Reports

1. Navigate to your browser tab or window where Daptiv is open, and make sure you are on the **Reports** tab:

CP	Dashboard	Home	Projects	Reports	Documents	Issues	More v
Open Cha	angepoint Analytics	More View	s 🔻 🛛 Page C	ptions 🔻			
Team	Content						
Checke	ed Item Actions 👻	Add Folder					
	Name 🔺					Actions	Description
	📑 _Developm	ent					
	Reference	5					DO NOT DELETE THIS FOLDER OR ITS CONTENTS
	💼 🛛 Daptiv PPM	Sample Report	ts			▼	This folder contains all the Daptiv reports distributed with PPM.
	🕞 🛛 Daptiv Stan	dard and Soluti	ion Reports			▼	This folder contains all current standard and solution-oriented i

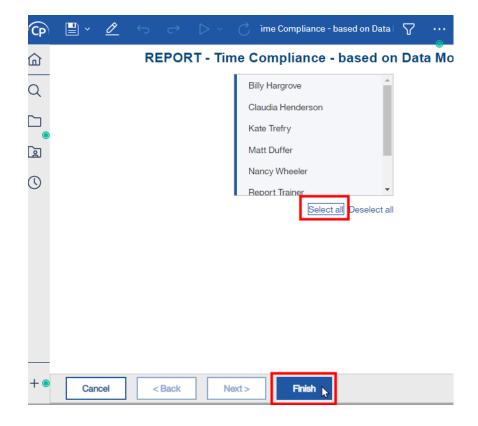
2. Navigate to where you saved your new Time Compliance report:

CP	Dashbo	ard	Home	Projects	Reports	Documents	
Open Changepoint Analytics More Views 💌 Page Options 💌							
My Content Time Compliance Reports							
Checked Item Actions 👻 Add Folder							
		Name 🔺					
		REPORT	- Time Comp	oliance - base	ed on Data Modul	le 🔻	
Checked Item Actions 👻							





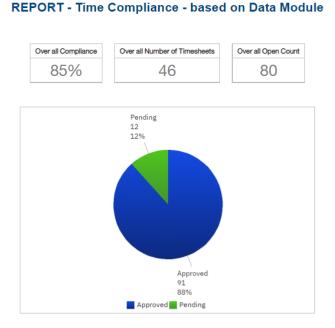
- 3. Click the name of your report to launch it
- 4. If you encounter any errors, such as "Identifier not found . . . ", return to your report and fix the Data Items in your Queries.
- 5. If you encounter a **Prompt**, click **Select all**, then click **Finish**:





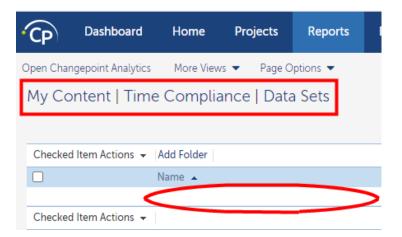


6. Your report runs and displays the relevant information:



Resource Manager	Compliance (%)	Number of Timesheets	Open	Pending	Approved	Declined	Unsubmitted
Billy Hargrove	100%	8	4	0	8	0	0
Claudia Henderson	100%	5	7	0	5	0	0
Kate Trefry		0	3	0	0	0	0
Matt Duffer	67%	9	2	3	6	0	0
Nancy Wheeler	100%	7	5	0	7	0	0
Report Trainer	64%	11	41	4	7	0	0
Will Byers	100%	6	12	0	6	0	0
		0	6	0	0	0	0
Overali - Total	85%	46	80	7	39	0	0

Note: in Daptiv > Reports, you will <u>not</u> see your existing Data Sets nor Data Module. For example, navigate to where you saved your Data Sets:



> Your **Data Sets** and **Data Modules** are <u>only</u> visible via the **Analytics portal.**





Task 6: Set a refresh schedule for the Data Sets

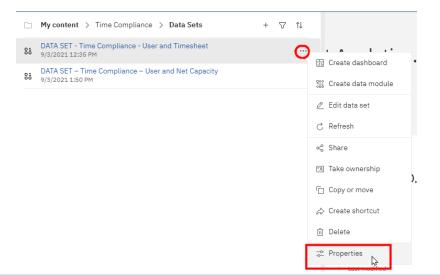
1. Return to your still-open **Analytics portal**, or re-launch Analytics if necessary:

CP	Changepoint Analytics	Welcome 🗸			
	Hello. Welcon	Show welcome C			
©	81 90 DATA SETt Capacity Data set	REPORT - Tata Module	REPORT - Once Report		

2. Navigate to the location where you saved your Data Sets:

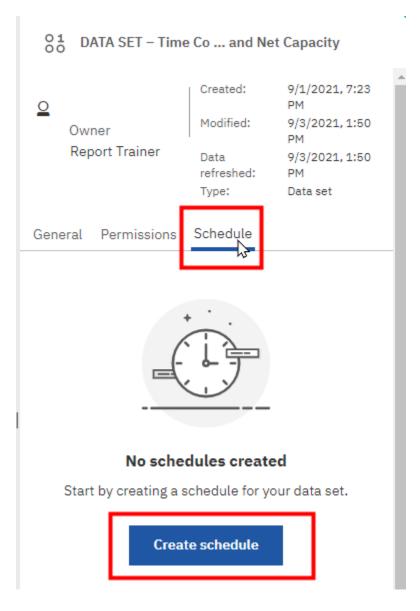
CP	Cha	ngepoint Analytics	Welco	ome	~
ඛ		My content > Time Compliance > Data Sets	+	7	î↓
Q	0100	DATA SET - Time Compliance - User and Timesheet 9/3/2021 12:35 PM			
	01	DATA SET – Time Compliance – User and Net Capacity 9/3/2021 1:50 PM			
le Le					
()					

3. For your first Data Set listed (and repeat these steps for your second Data Set), click the **More menu**, then click **Properties**:

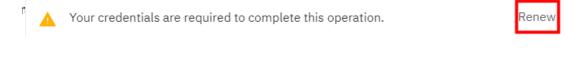




4. In the **Properties** of the Data Set, click **Schedule**, then click **Create schedule**:



5. If you encounter the following warning message, click **Renew**:



- 6. Set the Frequency Type to: Daily
- 7. Set Repeat every to: 1 Day
- 8. Set the **Period Start** to: tomorrow at **12:00 AM**
- 9. Click Save



DATA SET – Time Compliance – User and Net Capacity

Schedule			
Frequency			
Туре	Daily	~	
Repeat every	1 [Day(s) 🗸	
Daily time interval	0		^
Period			
Start	台 2021-09-14	🕓 12:00 AM	
✓ No end date			^

Save

Note: you can *disable*, *edit*, and *delete* this scheduled refresh by returning to the Data Set > Properties > Schedule:

O1 DATA SET – Time Co and Net Capacity						
<u>0</u>	Created:	9/1/2021, 7:23 PM				
Owner	Modified:	9/3/2021,1:50 PM				
Report Trainer	Data refreshed:	9/3/2021, 1:50 PM				
	Type:	Data set				
General Permissions Schedule						
Enable		Edit Delete				
Schedule						
Run every 1 Day(s) from September 14, 2021 at 12:00 AM.						
Credentials						
Report Trainer						
CognosAnalyticsTrainingDemo@daptiv.com						
Priority						
3						
Delivery						

