



Explore API Documentation

Control Actuals Reporting Version 1.0

Last Modified: 8/24/2022

Last Modified By: Natalie Takacs



Change Log

This changelog only contains significant or notable changes to the revision. Any editorial type changes or minor changes are not included.

Revision	Change Date	Description	Modified By
1.0	8/24/2022	Initial release	Natalie Takacs

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Overview

Due to architectural changes made in the Control application, the **SelfService_Control_CostItemActual** API will be deprecated in the 22.8 release. The API will still exist in this release, but no data will flow through it. The following new APIs will be replacing the existing API:

- SelfService_Control_ActualVendorHours
- SelfService_Control_ActualCost
- SelfService_Control_ActualManHours
- SelfService_Control_ActualQuantity

Reporting instructions

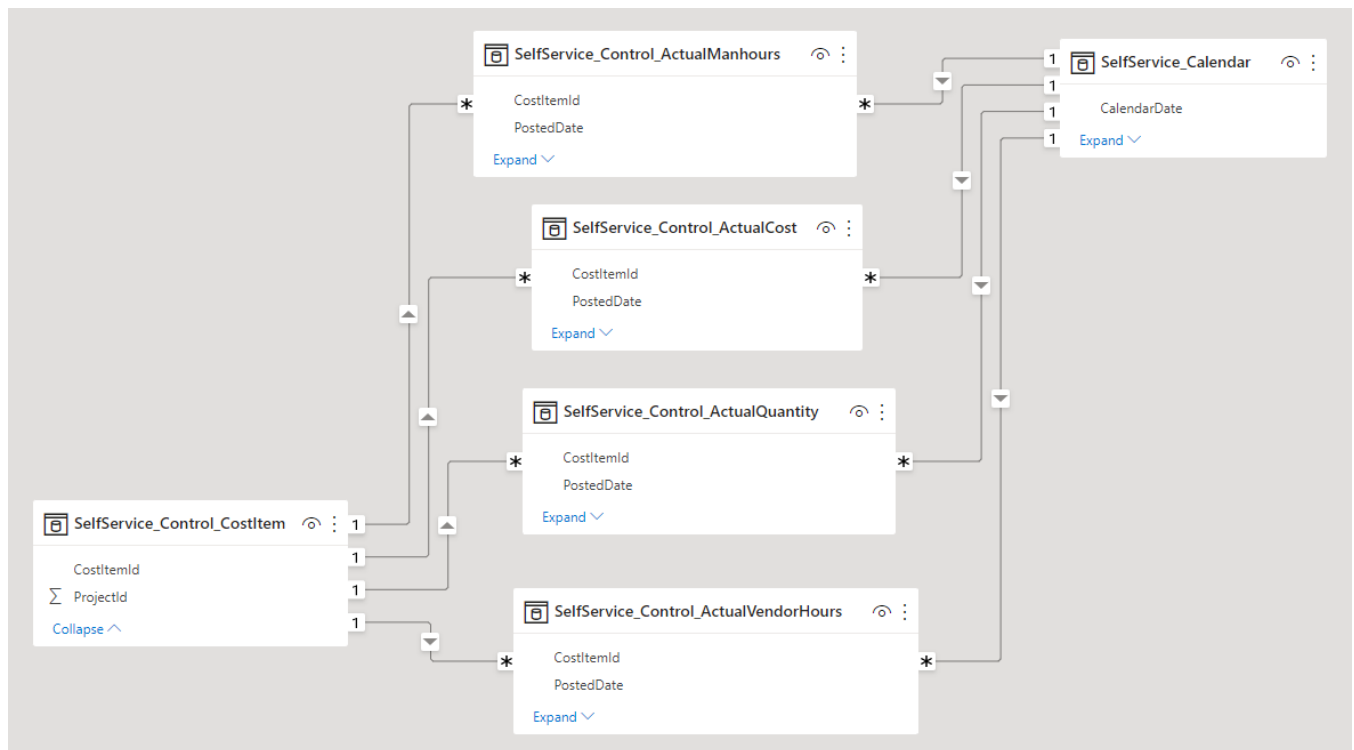
There are two ways to bring this data together in Power BI for reporting. The new APIs can be joined together in the “Model” section in Power BI or, once the APIs have been pulled into the PBIX file they can be appended together into one table in the “Edit Query” mode. For larger data volumes, the “Join Method” may have faster refresh performance. Both methods will allow information to be reported as follows.

CostItemId	CalendarDate	Cost	Quantity	ManHours	ClaimedManHr
	4/24/2018	98.48		2.00	
	4/28/2018	4.80	3.00	0.00	
	5/8/2018	551.62		10.00	
	5/15/2018	310.40		6.00	
	5/26/2018	69.60	7.00	98.50	
	6/5/2018	278.40		6.00	
	6/12/2018	412.56		8.00	
	6/19/2018	46.40		1.00	
	6/26/2018	326.16		6.00	
	6/30/2018	44.00	47.00	1.00	
	7/5/2018	1,643.21		0.00	
	7/9/2018	4,500.00		0.00	
	7/10/2018	162.40		3.50	
	7/17/2018	756.84		11.50	
	7/24/2018	1,743.27		27.00	
	7/28/2018		28.00		
	8/11/2018	422.53		3.50	
	8/18/2018	-17.52		0.00	
	8/25/2018	1,086.15		10.00	
	8/30/2018	5,549.12		0.00	
	9/14/2018	-17,988.42		-97.00	
	9/29/2018		-85.00		
	10/27/2018	309.84		6.00	
	11/6/2018	753.77		12.00	
	11/13/2018	241.76		4.00	
	1/22/2019	793.33		14.00	
Total		77,302.21	7,170,734.57	225.50	

The “Join Method”

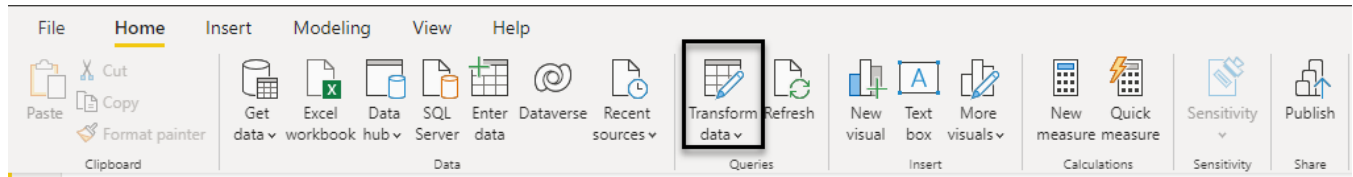
All four of the new APIs will join to the SelfService_Control_CostItem API on the CostItem field. They should also be joined to the SelfService_Calendar table on the PostedDate to the CalendarDate. Please see the table below for the specific join information. Joining to the Cost Item and Calendar APIs create a common reference across the new APIs to the Cost Items and Posted dates.

From: Table	To: Table	Relationship	Cardinality
SelfService_Control_CostItem (CI)	SelfService_Control_ActualVendorHours (AVH)	CI.CostItem=AVH.CostItem	1:M
SelfService_Control_CostItem (CI)	SelfService_Control_ActualCost (AC)	CI.CostItem=AC.CostItem	1:M
SelfService_Control_CostItem (CI)	SelfService_Control_ActualManHours (AMH)	CI.CostItem=AMH.CostItem	1:M
SelfService_Control_CostItem (CI)	SelfService_Control_ActualQuantity (AQ)	CI.CostItem=AQ.CostItem	1:M
SelfService_Calendar (C)	SelfService_Control_ActualVendorHours (AVH)	C.CalendarDate=AVH.PostedDate	1:M
SelfService_Calendar (C)	SelfService_Control_ActualCost (AC)	C.CalendarDate=AC.PostedDate	1:M
SelfService_Calendar (C)	SelfService_Control_ActualManHours (AMH)	C.CalendarDate=AMH.PostedDate	1:M
SelfService_Calendar (C)	SelfService_Control_ActualQuantity (AQ)	C.CalendarDate=AQ.PostedDate	1:M

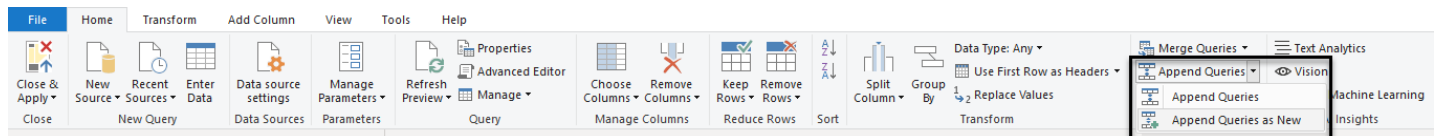


The “Append Method”

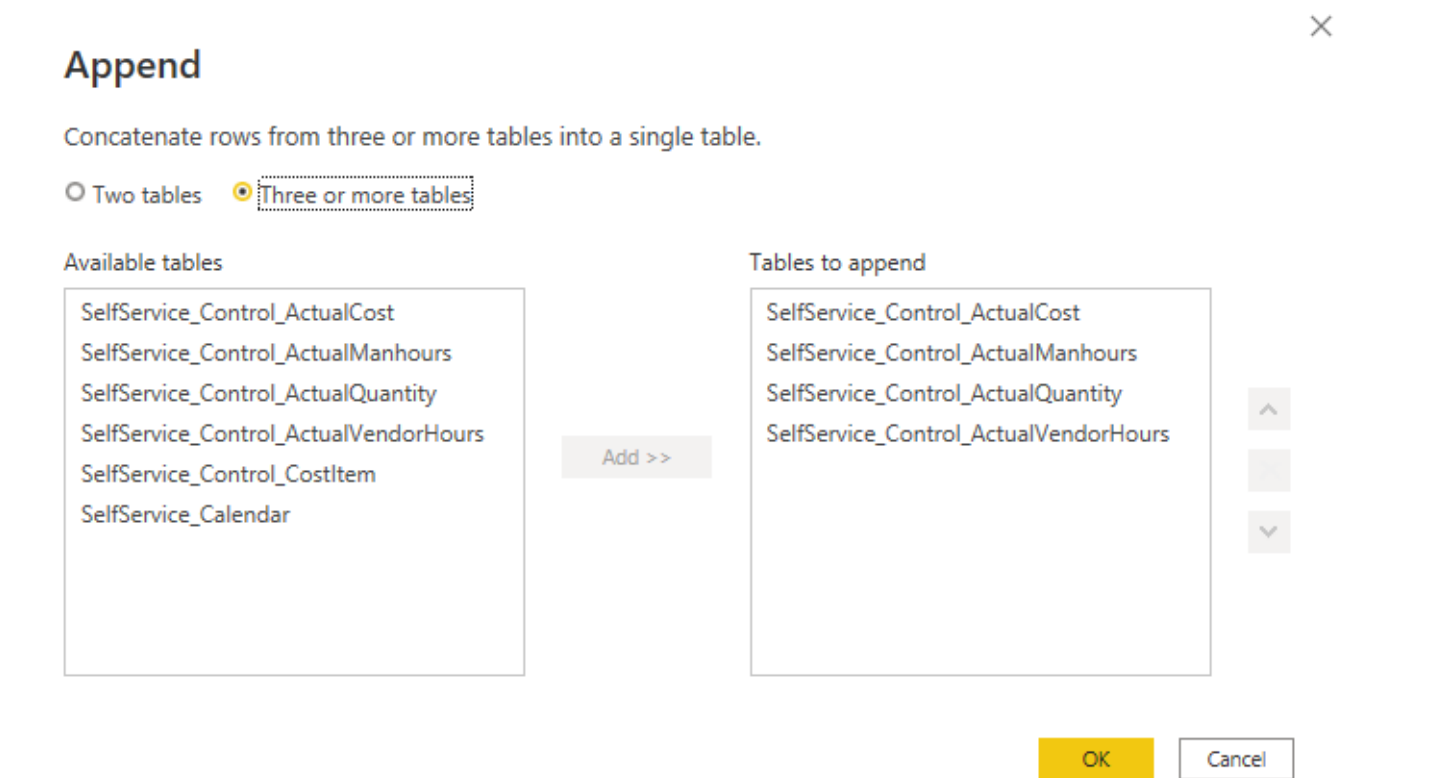
Appending tables in Power BI will combine the results of the four new APIs into one table in PowerQuery by combining data with the same column names into one column, and for columns with unique names, “NULL” values will be filled into rows containing data from the other tables where a value may not exist. To learn more about the Append function, please visit the following link: <https://docs.microsoft.com/en-us/power-query/append-queries>. To Append these APIs in your Power BI file, from your “Report” select the “Transform data” button in the top ribbon.



This will bring you to the “Power Query Editor” otherwise known as “Edit query” mode. In the top ribbon of the new window, select Append Queries > Append Queries as New.



A dialog box will appear, select “Three or more tables” and “Add” the four new API tables.



The new table will appear on the left-hand side as “Append1.” Here, you can rename the table. Then, click “Close & Apply” to apply the changes in your report.