Cento Office Hours – Advanced Concepts

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Click here to watch the recording of Cento Office Hours – Advanced Concepts.

How to Calculate Data – (such as length of stay on a report)

Step 1) To calculate the LOS (Length of Stay) on a new report, select New Report from the dashboard. Under the Report Fields header, you can select your report fields. The example below shows Report Fields from the STS Adult Cardiac Surgery v4.20 form.

Step 2) Under the Filters header, select the STS Adult Cardiac Surgery v4.20 to make sure the data is limited to that data form only.

Step 3) You can select your desired time under the Time Frame header and select specific values as well.

New Report

⚙▾

1 Report Type 2 Report Fields 3 Filters **4 Time Frame** 5 Finish

Choose Time Frame

The value of

Date of Surgery [310: SurgDt] ▾

Time Frame type   **Custom period**   **Standard periods**

◉ Fixed   **Was on or after**   • 2022
○ Relative   • 2021
                         mm/dd/yyyy   📅   • 2020
                                                        • 2019
                         Was on or before   • 2018
                                                        • 2017
                         mm/dd/yyyy   📅   • 2016
                                                        • 2015
                                                        • 2014
                                                        • 2013
                                                        • 2012
                                                        • 2011
                                                        • 2010
                                                        • 2009
                                                        • 2008
                                                        • 2007
                                                        • 2006

Step 4) Under the Finish header, you can name and save the report template, then run the report.

New Report

⚙▾

1 Report Type 2 Report Fields 3 Filters 4 Time Frame **5 Finish**

Report Summary

Type

Simple

Report Fields

- Patient Last Name [50: PatLName]
- Patient Last Name [50: PatLName] (2)
- Hospital Name [205: HospName]
- Admit Date [305: AdmitDt]
- Date of Surgery [310: SurgDt]
- Hospital Discharge Date [7006: DischDt]
- Surgeon [1955: Surgeon]
- Risk Model Population (ProcId)

Filters

- STS Adult Cardiac Surgery v4.20 is Yes

Time Frame

Date of Surgery [310: SurgDt]

⬇ Import template   ⬆ Export template

Graphs

Graph Type

○ none

Save Template

Report Template Name

STS 4.20 - LOS

💾 Save Template

Run Report

Output Format

Same Window ▾

Run report

Step 5) The screenshot below is what the report will look like based on the fields and filters that were selected.

| Cento | All Report Templates | New Report | Administration | | | DEXTER2\mstockton | Log Off |

Home / All Report Templates / Run report

Ad Hoc: STS 4.20 - LOS

Executed 11/11/2022 8:54 PM

Edit Report · Save Template · Download

Report Filters

- STS Adult Cardiac Surgery v4.20 is Yes

Total Results: 52

Drag a column header here to group by that column

Search...

Patient Last Name [50: PatLName]	Patient Last Name [50: PatLName] (2)	Hospital Name [205: HospName]	Admit Date [305: AdmitDt]	Date of Surgery [310: SurgDt]	Hospital Discharge Date [7006: DischDt]	Surgeon [1955: Surgeon]
test	test	NCDR Test Facility (Submission)	11/3/2022 8:12 AM	11/3/2022 8:12 AM		
NEW	NEW	Hospital Inc.	12/7/2021 5:31 PM	12/7/2021 5:31 PM		
Patient	Patient	Cedaron Medical	8/13/2022 3:10 PM	8/14/2022 3:11 PM	8/15/2022 12:00 AM	
Smith	Smith	Alpha Hospital	10/28/2022 8:42 AM	10/28/2022 8:42 AM	10/28/2022 12:00 AM	
ACOSTA	ACOSTA	Cedaron Heart Health	4/28/2021 4:34 PM	4/29/2021 4:34 PM	4/29/2020 12:00 AM	
ACOSTA	ACOSTA	Hospital Inc.	6/8/2022 4:00 AM	6/8/2022 5:04 PM	9/28/2022 12:00 AM	
BRITT	BRITT	Harvest Test - Cath/CPMI/ICD/AFib	1/24/2022 7:05 AM	1/24/2022 7:05 AM	1/27/2022 12:00 AM	Practitioner Test (12345)
ABRAMS	ABRAMS	Hospital Inc.	8/14/2021 11:05 AM	8/15/2021 11:05 AM	8/16/2021 12:00 AM	
ABRAMS	ABRAMS	Cedaron Heart Health	7/23/2020 1:23 PM	7/29/2020 1:23 PM	8/13/2020 12:00 AM	Jay Jacker (231451253)
ACEVEDO	ACEVEDO	Cedaron Heart Health	6/6/2022 12:00 AM	6/5/2022 3:40 AM	6/6/2022 12:00 AM	
ACOSTA	ACOSTA	Facility for Harvest Submission Test (fhst)	2/10/2021 12:00 AM	2/10/2021 12:51 AM	9/13/2022 12:00 AM	LOIS HANSON (1386607)
ACOSTA	ACOSTA	Cedaron Heart Health	9/11/2020 12:00 AM	9/11/2020 8:58 AM		
ACOSTA	ACOSTA	Cedaron Heart Health	7/8/2020 2:46 PM	7/10/2020 2:46 PM		

To calculate the LOS from the admit date to discharge date, you can go back to the Filters header to input the required Report Fields/Filters. Click on the video below for more information. (Use the back arrow to return to the document).
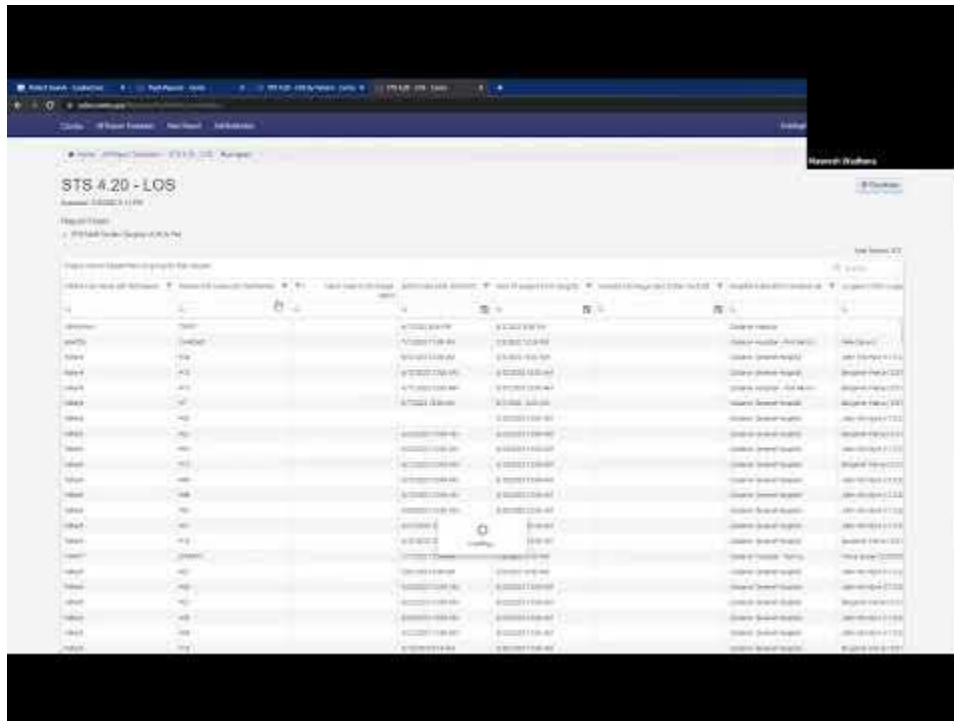
How to Calculate the Start Time and Create Shortcuts

You can calculate the time frame on a report as well. The example below shows the *OR Entry Date* and *OR Exit date* Report Fields selected.

If you hover over the OR Entry Date and Time field and select "Edit", it will bring up the box in the screenshot below. If you select x² Edit Formula, you can copy this information to calculate the values and create an optional shortcut. *(See more details on the **Cento Office Hours – Advanced Concepts** recording-Time Stamp 14:30).*

How to change your Report Type

If you build a report under one Report Type but would like to change it to a different Report Type, you can do this by selecting your report and editing the report.

This will bring you to the Edit Report headers. The example below shows a Pivot Summary being selected from an existing Simple report. Selecting the Pivot Summary will display two more headers (Grouping and Totals). Grouping

determines what group you want to display the data. This can be summarized by surgeon, risk model, or whatever is required by your workflow.
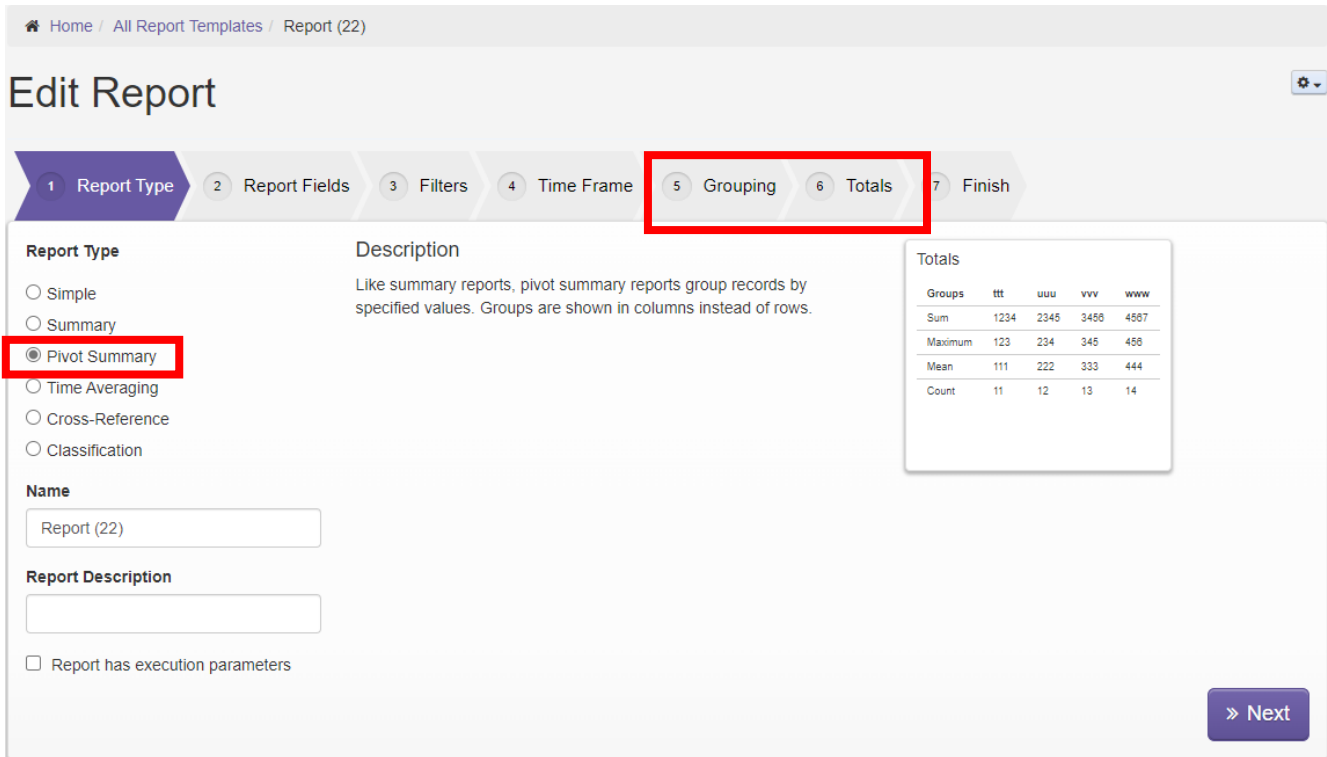
Under the Totals header, you can check information under the standard total for specific calculations. You can select + Add selected totals and it will give you the option to choose your Summary type.
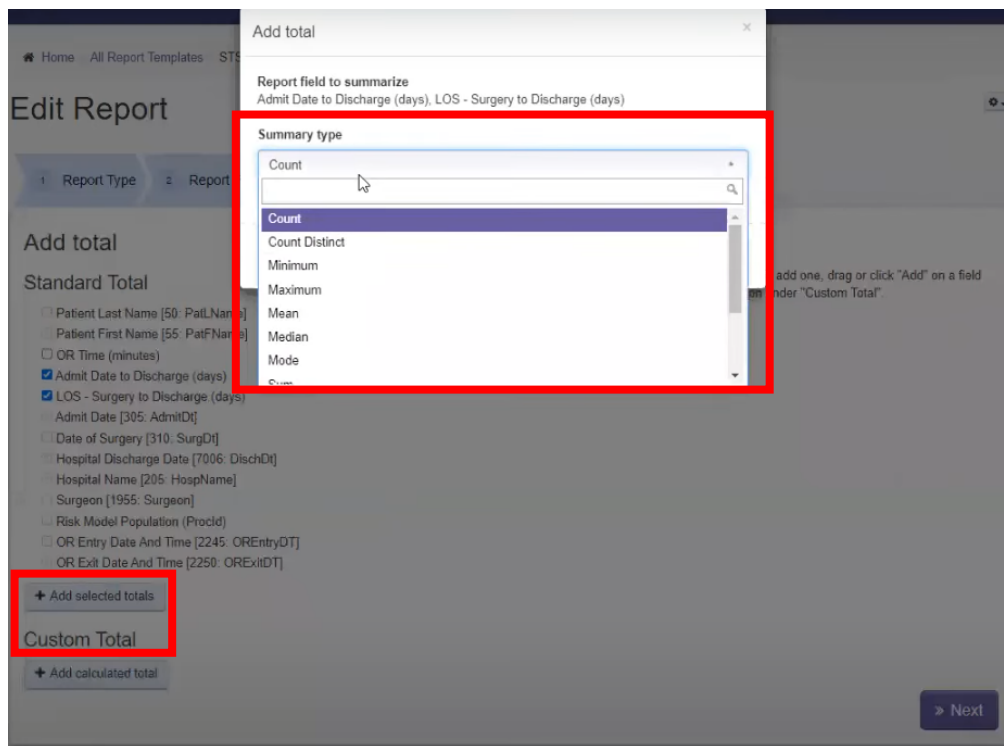
Under the Finish header you can review everything in your report, as well as adding a Graph Type and selecting your Bar Labels.

Once you run the report, you can see the Bar Graph is listed by surgeon, and the mean and median of LOS.

If you wanted to look at the groupings by the hospital name, then surgeon, you can go back to the Grouping header and add those specifications.

The screenshot below is what this grouping looks like on the report.
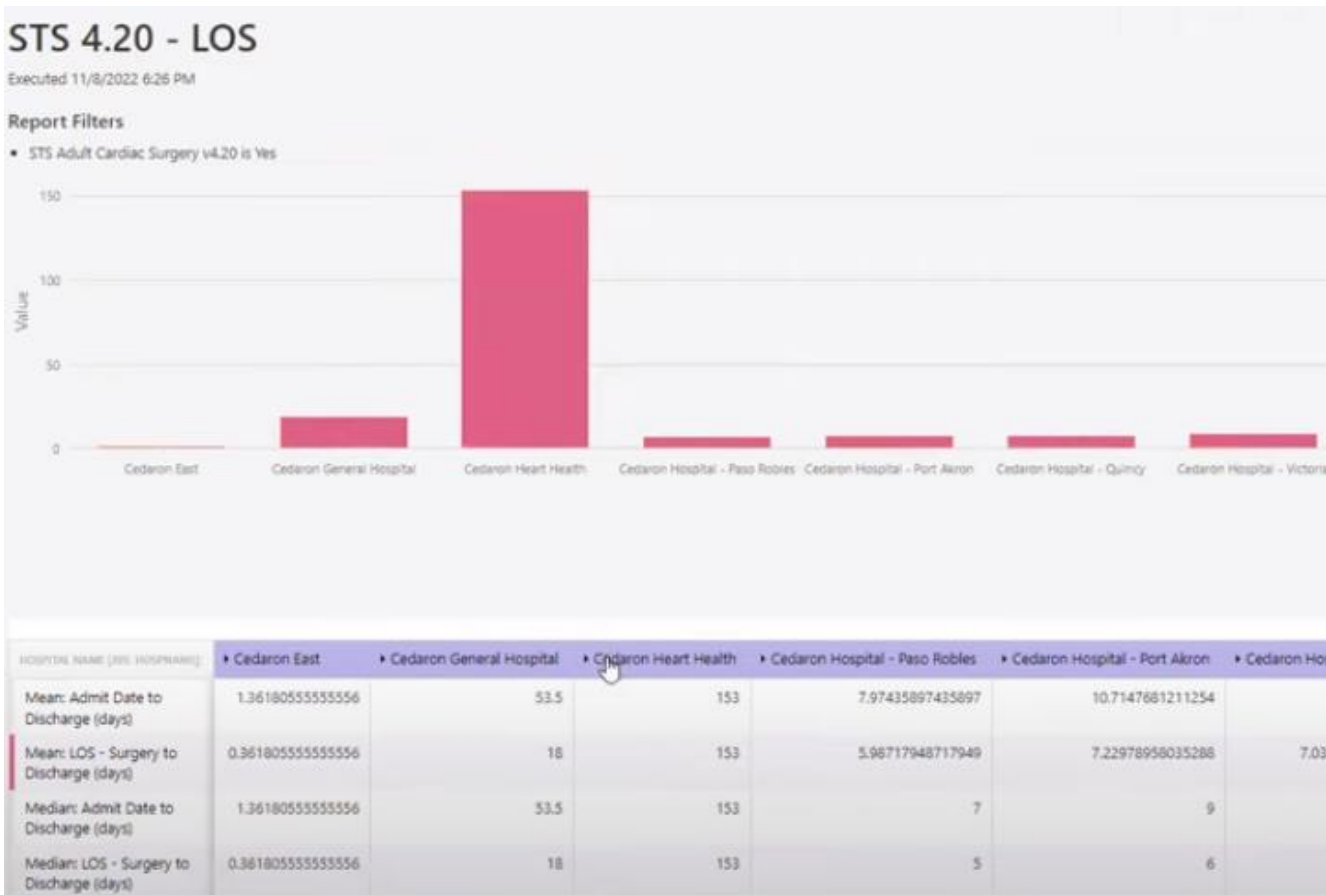
You can also add a benchmark line under the "Finish" header if you would like your report to have one.

You can now see the benchmark line on the report.

Benchmark - is simply the point or value for reference - to compare numbers with.

For example, at a hospital, Length-of-Stay for surgery might be between 3 days to 7 days. However, for the national average, the LOS (Length of Stay) - is 3.7 days.

Adding a Benchmark value of 3.7 - to a report - adds a horizontal line to the bar-graph - depicting what is the benchmark value you are comparing it to.

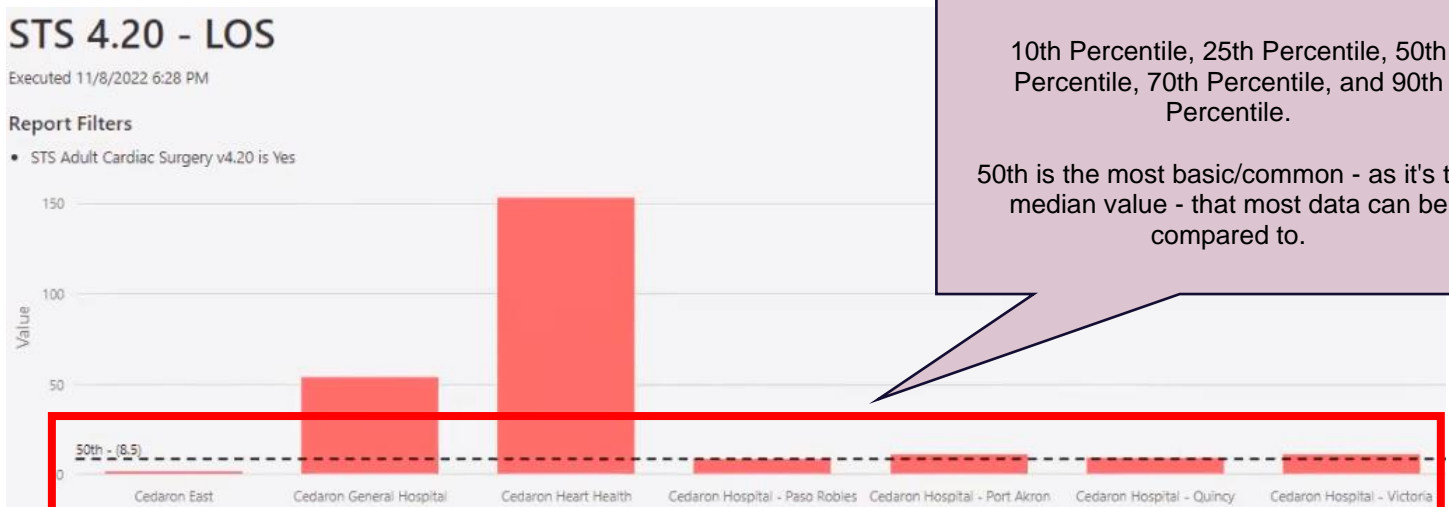Reports can have multiple Benchmark values.

50th - is simply the median (50th percentile).

In case of many NCDR Reports, there are 5 different benchmark values:

10th Percentile, 25th Percentile, 50th Percentile, 70th Percentile, and 90th Percentile.

50th is the most basic/common - as it's the median value - that most data can be compared to.

Repeated Questions

Some reports can have the same information because of multiple answers in CardiacCare. The example below shows what a report looks like for patients with multiple lesions. The report shows the same patient multiple times. This is not an error. *(See more details on the **Cento Office Hours – Advanced Concepts** recording-Time Stamp 26:19).*

Drag a column header here to group by that column

Last Name [2000: LastName]	First Name [2010: FirstName]	Procedure Start Date and Time [7000: ProcedureStartDateTime]	PCI Operator	Lesion Counter [8000: LesionCounter]	Stenosis Immediately Prior to Treatment [8004: StenosisPriorTreat]
ANDERSON	CHRISTOPHER	1/9/2019 1:52 PM			
ANDREWS	HERMAN	2/11/2019 9:43 AM			
ANTHONY	ETHAN	2/21/2019 2:41 PM			
ANTHONY	MARCELINO	4/27/2018 11:40 AM	JORGE JONES (1891183855)	1.00	100.00
ARMSTRONG	GLEN	2/6/2019 12:29 PM			
ARNOLD	TIM	2/12/2019 11:33 AM			
ASHLEY	CLAUDIO	3/25/2018 4:58 PM	CHRISTOPHER WOOD (2002129280)	1.00	100.00
ASHLEY	CLAUDIO	3/25/2018 4:58 PM	CHRISTOPHER WOOD (2002129280)	2.00	100.00
ASHLEY	CLAUDIO	3/30/2018 8:26 AM	CHRISTOPHER WOOD (2002129280)	1.00	80.00
ASHLEY	CLAUDIO	8/16/2018 9:37 AM	GERALD BELL (1325398969)	1.00	100.00
ATKINS	EDMOND	1/15/2019 4:00 PM			
ATKINSON	ISAIAH	1/24/2019 4:28 PM	WILLIAM FOWLER (1416246462)	1.00	100.00
ATKINSON	TRACEY	6/6/2018 2:55 PM	JORGE JONES (1891183855)	1.00	100.00
ATKINSON	TRACEY	6/6/2018 2:55 PM	JORGE JONES (1891183855)	2.00	90.00
AUSTIN	RAMON	1/8/2019 3:34 PM			
AVERY	DELMER	9/20/2018 10:52 AM	CHRISTOPHER WOOD (2002129280)	1.00	90.00
AVILA	ELISE	1/30/2019 10:24 AM			
AYALA	STEPHAN	2/16/2019 4:21 PM	GERALD BELL (1325398969)	1.00	70.00
AYALA	STEPHAN	2/16/2019 4:21 PM	GERALD BELL (1325398969)	2.00	95.00
AYALA	STEPHAN	2/18/2019 4:13 PM	CHRISTOPHER WOOD (2002129280)	1.00	85.00
AYALA	STEPHAN	2/18/2019 4:13 PM	CHRISTOPHER WOOD (2002129280)	2.00	85.00
AYERS	MAVIS	2/5/2019 10:38 AM			
BAILEY	MILDRED	3/5/2019 3:44 PM	GERALD BELL (1325398969)	1.00	85.00
BAILEY	MILDRED	3/5/2019 3:44 PM	GERALD BELL (1325398969)	2.00	70.00
BAILEY	MILDRED	3/5/2019 3:44 PM	GERALD BELL (1325398969)	3.00	70.00
BAIRD	SIMONE	12/1/2018 7:50 AM	GERALD BELL (1325398969)	1.00	100.00
BAIRD	SIMONE	12/1/2018 7:50 AM	GERALD BELL (1325398969)	2.00	90.00
BAIRD	SIMONE	12/1/2018 7:50 AM	GERALD BELL (1325398969)	3.00	80.00

Beginners Using Cento

For beginners just getting started with Ad-hoc reporting using Cento, a good technique to use is to take advantage of the flash reports and manipulate them by adding/deleting fields until you get the information exactly how you want it. Also, try building a simple report by adding fields and filters to get familiar with the headers and how they work. *(See more details on the **Cento Office Hours – Advanced Concepts** recording-Time Stamp 47:05).*