

# WEEK 9 - CREATING REPORTS IN SMARTCARE PART 1

#### INTENDED AUDIENCE



- This presentation is aimed toward county technical staff who will be responsible for creating ad hoc and custom reports within the SmartCare EHR
- The software needed will NOT be needed for all county users who will be accessing SmartCare but a smaller subset

#### REPORTING OPTIONS



- SmartCare Reports
  - Completely customizable by county IT users
  - Real time updates
  - CDAG must be enforced by report creator
- List Pages
  - Prebuilt reports already in SmartCare
  - Offers some layout flexibility
- Ad-hoc Reporting
  - Built in query builder for selected tables within SmartCare
  - Will be CDAG compliant after March service pack is loaded into county TRAIN databases
- Datawarehouse
  - Good for non-time critical data reporting

#### **AGENDA**



- Prerequisites
  - Software needed
  - SQL Credentials from Streamline
- Database Connection Options
- Available Documentation
- Databases and Use Cases
- Frequently Used Tables

#### **AGENDA**



- Create New Report
  - Format Dates
  - Create Groups
  - Add Parameters
  - Create Summaries and subtotals
  - Enforce CDAG!!!!
- Uploading Reports to Report Server
  - Report Server URL
- Creating a New Report within SmartCare
- Adding report to Role Definition
- Future Steps

#### **SOFTWARE NEEDED**



#### Microsoft SQL Server Management Services (SSMS)

- Pros
  - Good SQL query building user interface and error checking
  - Recommended by Streamline to build queries and datasets for reporting writing tools
- Cons
  - Does NOT create .RDL file needed for publishing reports in SmartCare
  - Limited visual capabilities

#### **SOFTWARE NEEDED**



#### **Microsoft Visual Studio**

- Pros
  - Enterprise level tool that is good for sharing resources with multiple report writers
  - Creates RDL files needed for report publishing in SmartCare
- Cons
  - More steps to set up an initial connection to the SmartCare database
  - Might have a cost or purchase element before using

#### **SOFTWARE NEEDED**



#### Microsoft Report Builder

- Pros
  - Free download from Microsoft website
  - https://www.microsoft.com/en-us/download/details.aspx?id=53613
  - Creates RDL files needed for Smartcare report publishing
  - Simpler steps to set up initial connection
  - Capable of dynamically linking to shape files (county or zip code maps for example)
- Cons
  - Must switch data source prior to uploading into SmartCare

## SQL CREDENTIALS FROM STREAMLINE



- Each user that will write reports will need a separate user account from Streamline
- Request accounts from Senior Implementation Coordinators
- Accounts will have READ ONLY access to the county SQL servers
- The SQL Credentials are NOT the same as a SmartCare EHR account
- User does NOT have to be logged into SmartCare to see/view SQL server data or write reports
- Only 1 SQL account will be needed per user for all databases

#### **DB CONNECTIONS**



#### **Database Connection Options**

- Open VPNGUI
  - Free download from Streamline SFTP Site
  - Must connect prior to report building
  - Connection usually stays connected for extended durations
  - May not be compliant with county IT policies
- IPSEC Point to Point
  - Always connected
  - Your county IT staff must work with Streamline to exchange IP, network information and test

#### **DOCUMENTATION**



#### **Available Documentation**

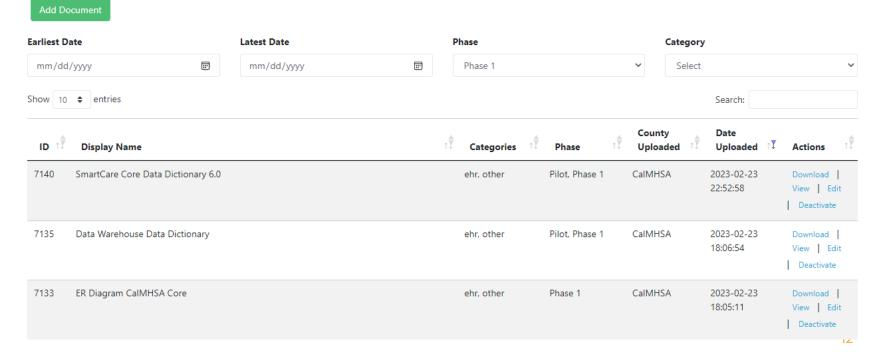
- Available on CalMHSA Member Portal within Documents section
  - SmartCare Core Data Dictionary 6.0
  - ER Diagram CalMHSA Core
  - Data Warehouse Data Dictionary (discussed during Part 2, May 16, 2023)

#### **SMARTCARE CORE DATA DICTIONARY**



#### **Available Documentation**

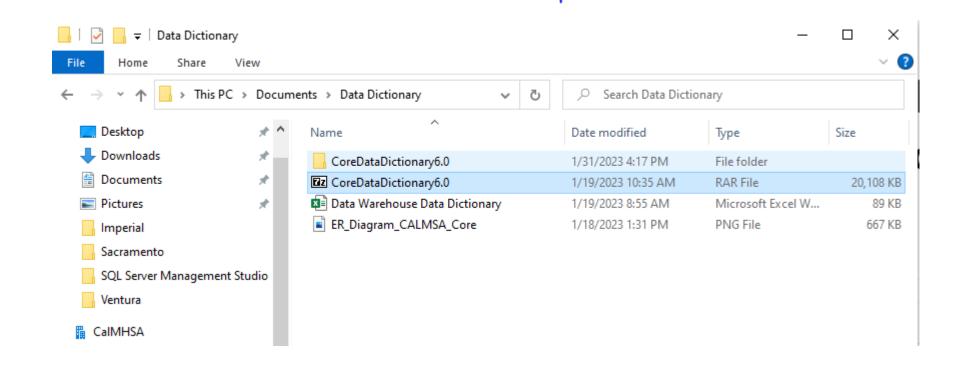
- Choose Phase 1 for Phase filter
- Reverse Sort on Date Uploaded and look for 2023-02-03 Documents



#### **SMARTCARE CORE DATA DICTIONARY 6.0**



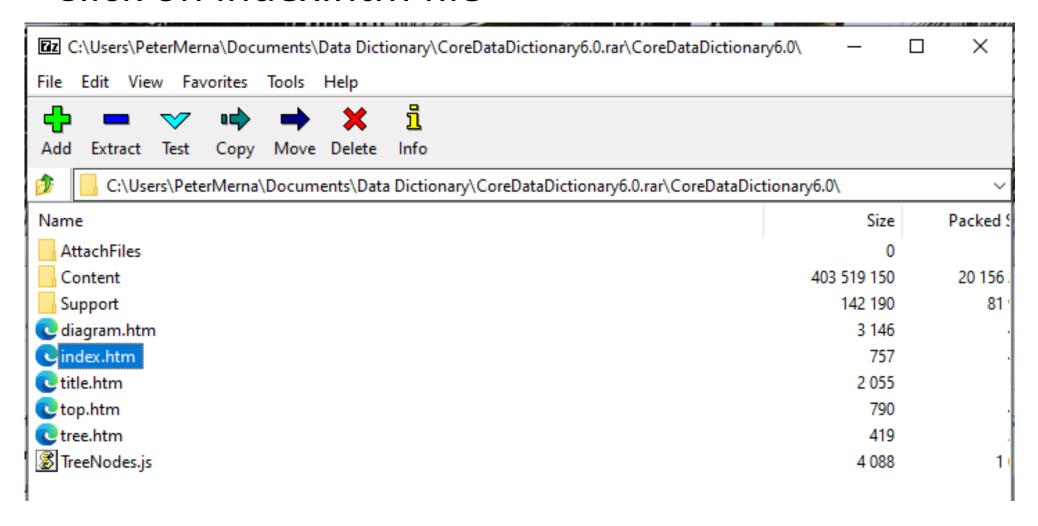
- Use 7 Zip or similar to open RAR file
- Does not have CalMHSA custom development tables so far



#### SMARTCARE CORE DATA DICTIONARY 6.0



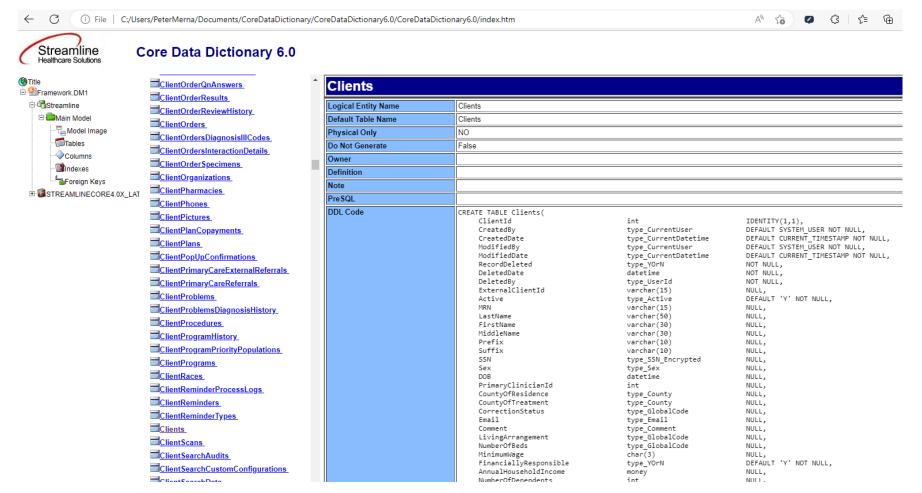
Click on index.htm file



#### **SMARTCARE CORE DATA DICTIONARY 6.0**



 Expand Streamline, expand Main Model, click on Tables and click on any table within listing







 Lots of helpful information such as datatype, allows NULL value, GlobalCodeCategory, etc.

Clients Columns						
ColumnName	Domain	Datatype	NULL	Definition		
ClientId		int	NO			
<u>CreatedBy</u>		type_CurrentUser	NO			
<u>CreatedDate</u>		type_CurrentDatetime	NO			
<u>ModifiedBy</u>		type_CurrentUser	NO			
<u>ModifiedDate</u>		type_CurrentDatetime	NO			
RecordDeleted	RecordDeleted	type_YOrN	NO			
<u>DeletedDate</u>	<u>DeletedDate</u>	datetime	NO			
<u>DeletedBy</u>	<u>DeletedBy</u>	type_UserId	NO			
<u>ExternalClientId</u>		varchar(15)	YES			
<u>Active</u>		type_Active	NO			
MRN		varchar(15)	YES			
<u>LastName</u>		varchar(50)	YES			
<u>FirstName</u>		varchar(30)	YES			
<u>MiddleName</u>		varchar(30)	YES			
<u>Prefix</u>		varchar(10)	YES			
Suffix		varchar(10)	YES			
SSN		type_SSN_Encrypted	YES			
Sex		type_Sex	YES			
DOB		datetime	YES			
PrimaryClinicianId -		int	YES			
<u>CountyOfResidence</u>		type_County	YES			
CountyOfTreatment		type_County	YES			
CorrectionStatus		type_GlobalCode	YES	GlobalCodes Category = CORRECTIONSTATUS		
<u>Email</u>		type_Email	YES			
Comment		type_Comment	YES			
<u>LivingArrangement</u>		type_GlobalCode	YES	GlobalCode Category = LIVINGARRANGEMENT		



Child Relationships:



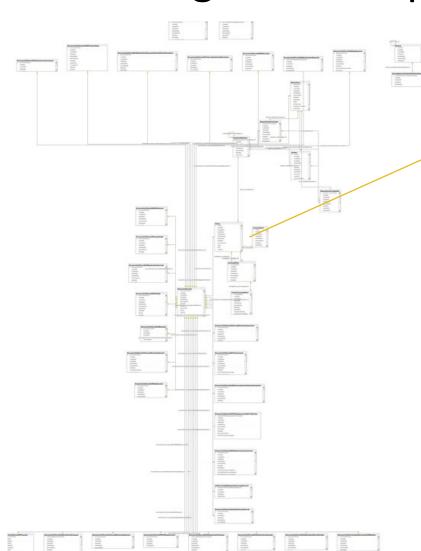
 Parent/Child Relationships, Foreign Keys, and Cardinality, oh my!

Parent Relationships:									
Table Name	Туре	Cardinality	Constraint Name	VerbPhrase	InversePhrase	Foreign Keys			
<u>ClientPrograms</u>	Non- Identifying	Zero or One to Zero or More	ClientPrograms_Clients_FK			PrimaryProgramId			
ClientStatements	Non- Identifying	Zero or One to Zero or More	ClientStatements_Clients_FK			LastClientStatementId			
ExternalReferralProviders	Non- Identifying	Zero or One to Zero or More	ExternalReferralProviders_Clients_FK			ExternalReferralProviderId			
<u>Payments</u>	Non- ' Identifying	Zero or One to Zero or More	Payments_Clients_FK			LastPaymentId			
Staff	Non- Identifying	Zero or One to Zero or More	Staff_Clients_FK			PrimaryClinicianId			
Staff	Non- Identifying	Zero or One to Zero or More	Staff_Clients_FK2			AssignedAdminStaffld			
Staff	Non- Identifying	Zero or One to Zero or More	Staff_Clients_FK3			PrimaryPhysicianId			
Staff	Non- Identifying	Zero or One to Zero or More	Staff_Clients_FK4			UserStaffId			
Staff	Non- Identifying	Zero or One to Zero or More	Staff_Clients_FK5			ProviderPrimaryClinicianId			
Staff	Non- Identifying	Zero or One to Zero or More	Staff_Clients_FK6			Staffld			

#### ER DIAGRAM CALMHSA CORE

CAIMHSA
California Mental Health Services Authority

ER Diagram examples

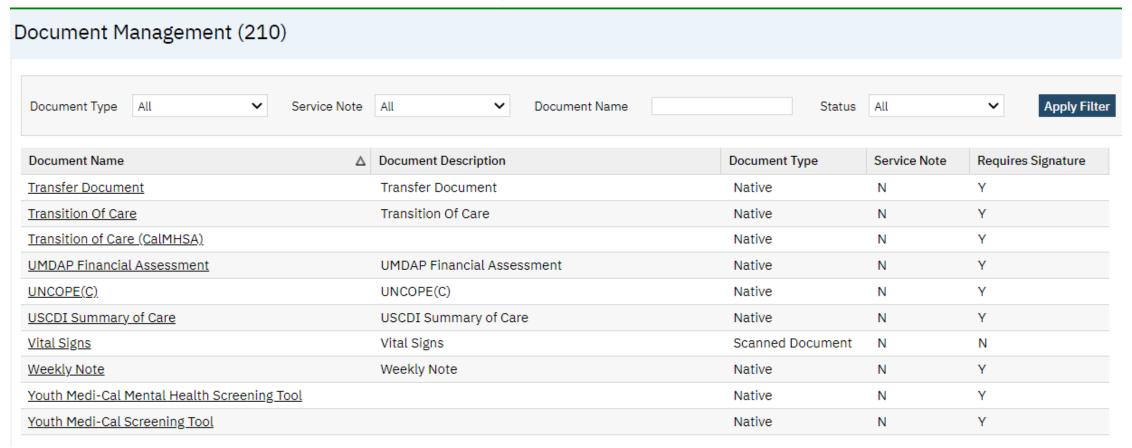




#### **DOCUMENT CODE DETAIL**



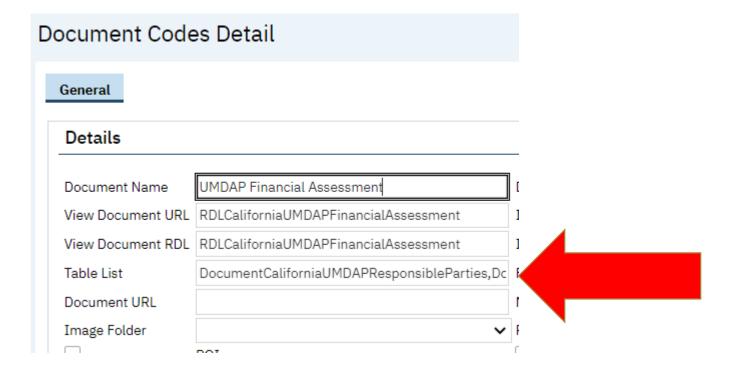
 Go to Document Management and choose Document from List Page







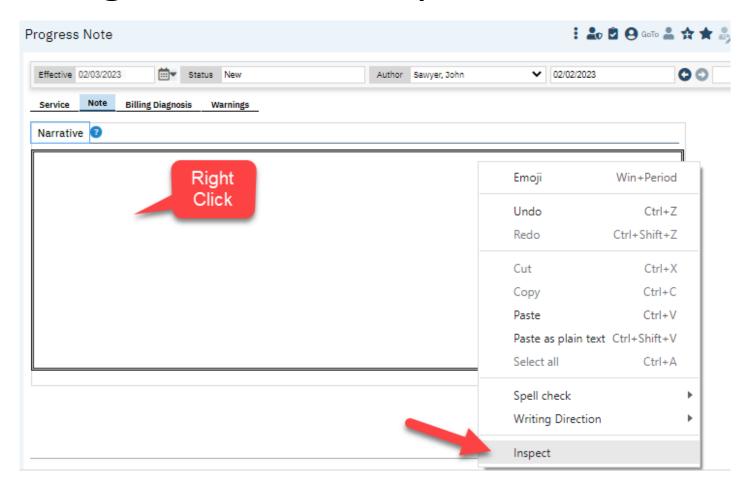
- Look for Table List field
- If multiple tables are filed from document, tables will be comma delimited



#### HTML INSPECT



- Log into SmartCare and open form
- Right click on entry box and select "Inspect"



#### HTML INSPECT



 Side panel will highlight the section of the HTML for the field selected

```
▼<table cellpadding="0" cellspacing=
                                      "0" border="0" width="100%">
                                       ▼
                                        ▼
                                          ▼
                                             <textarea name="ct100$Conten
                                             tPlaceHolderPageContents$ctl
                                             00$TextArea_CustomMiscellane
                                             ousNotes_Narration" id="ct10
                                             0_ContentPlaceHolderPageCont
                                             ents_ct100_TextArea_CustomMi
                                             scellaneousNotes_Narration"
                                             spellcheck="True" cols="60"
                                             rows="20" data-
                                             preventexpand="1" class="for
                                             m_textarea" style="resize: n
                                             one;"></textarea> == $0
                                           textarea#ctl00_ContentPlaceHolderPageContents_ctl00_TextArea_CustomMiscellaneousNote: ...
```

#### HTML INSPECT EXAMPLE



 Side panel will highlight the section of the HTML for the field selected

In that section it will have the

Type of box

Table for the element

Field name for the element

#### <textarea

name="ctl00\$ContentPlaceHolderPageContents\$ctl00\$TextArea\_CustomMiscellaneousNotes\_Narration
"id="ctl00\_ContentPlaceHolderPageContents\_ctl00\_TextArea\_CustomMiscellaneousNotes\_Narration"
spellcheck="True" cols="60" rows="20" data-preventexpand="1" class="form\_textarea" style="resize:
none;"></textarea>

So in this example, the "Narrative" text box for a Progress Note is stored in

dbo.CustomMiscellaneousNotes.Narration

#### DATABASES AND USE CASES



 For reporting, databases that will be most utilized will be QA, TRAIN, and PROD



- During Implementation, this is the primary SandBox to be used by the Counties to learn the system
- Pre-Populated with sample data by CalMHSA
- During conversion testing, can be refreshed with migrated data
- Can be periodically refreshed with county PROD data (Scramble)
- After Go-Live used for end user training and practice
- Test reports can be loaded for training and practice

#### DATABASES AND USE CASES



QA

- During Implementation, used for data migration validation
- Will be overwritten with new data with each migration testing iteration
- Must be the same update level as CalMHSA
- Will be primary environment for county testing after conversion
- Will be used after conversion for county to test SmartCare product updates

**PROD** 

- PROD Was SETUP but eventually becomes county PROD database
- Final data migration will need to be done prior to go live
- Final destination for production reports

## FREQUENTY USED TABLES - CLIENT DEMOGRAPHICS



- Clients
  - Contains one record for each unique ClientId in SmartCare
    - Does NOT contain, race, ethnicity, phone number, aliases
    - Does contain First Name, Last Name, DOB, Sex, and SSN
- Other Client demographic related tables
  - ClientPhones
  - ClientRaces
  - ClientEthnicities
  - ClientAddresses
  - ClientAliases

## FREQUENTY USED TABLES - CLIENT PROGRAMS, ETC.



- ClientPrograms
  - Contains a record for every program request/enrollment
  - Program ID, Enrollment Date, Discharge Date, Status
- Client Plans
  - Contains client coverage plan information
  - ClientId, EffectiveFrom, EffectiveTo, ClientPlanId
- Services
  - Contains a record for every service in SmartCare
  - ClientId, DateOfService, ProgramId, ClinicianId, FacetoFacetime
- Appointments
  - StaffId, ClientId, ServiceId, Status, ProgramId

## FREQUENTY USED TABLES - BILLING AND CLAIMS



- Charges
  - Contains services entered in SmartCare and status of billing
  - ServiceId, ReadyToBill, Flagged, FirstBillDate, ExpectedPayment
- ServiceCompletionBatches
  - RunDate, TotalCharges, NumberofServices
- ServiceErrors
  - ErrorType, ErrorMessage, ServiceId, CoveragePlanId
- ServiceClaimErrors
  - Contains claims that have errored during claiming process
  - ClaimLineId, ServiceCreationError, CreatedDate, CreatedBy

## FREQUENTY USED TABLES - CLIENT CLINICAL

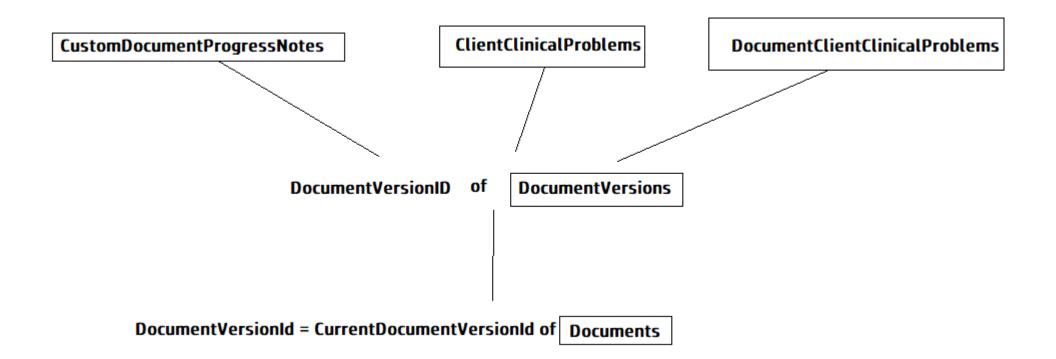


- Documents
  - Contains ClientId, DocumentCodeId, Status
  - Is the main table for any and all documents (forms that have Sign functionality in SmartCare)
- DocumentVersions
  - Contains DocumentVersionId, DocumentId, Effective Date
  - Is the history table of any document with one or more versions
- CustomProgressNotesPrograms
  - Contains Program ID, Enrollment Date, Discharge Date, Requested Date, Status, Information (note field)
- ClientClinicalProblems
  - Contains Program ID, Client Id, ICD10 Code, SNOMED Code, Staff ID, Start Date, End Date

## FREQUENTY USED TABLES - CLIENT CLINICAL



Example Client Clinical tables relationship



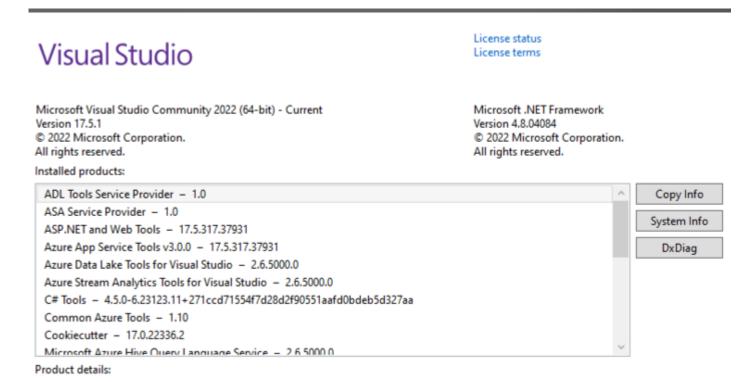


# CREATING REPORTS

#### SETUP STEPS IN MS VISUAL STUDIO



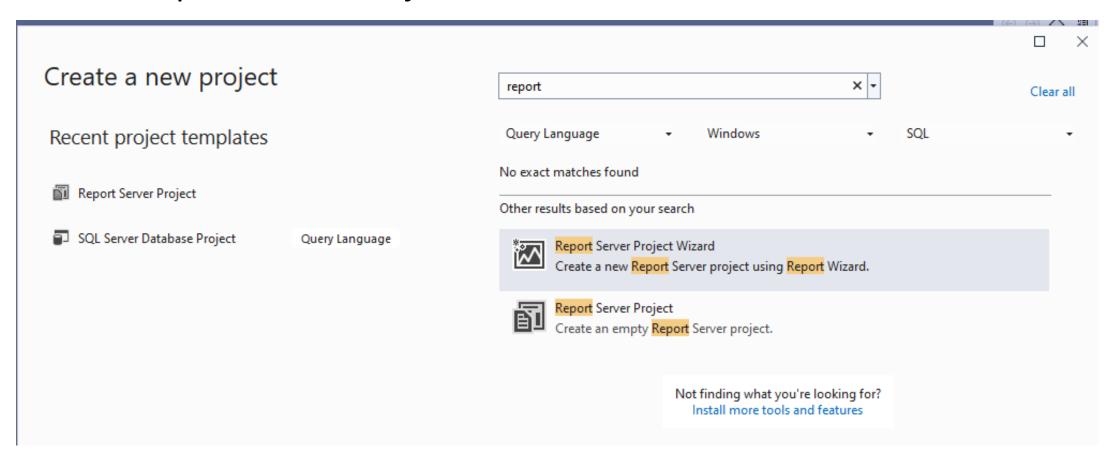
- Install MS Visual Studio
  - SSRS extension plugin must also be installed
  - https://marketplace.visualstudio.com/items?itemName=ProBITools.
     MicrosoftReportProjectsforVisualStudio2022
  - Example version



#### CREATE NEW PROJECT IN VISUAL STUDIO



Choose Report Server Project

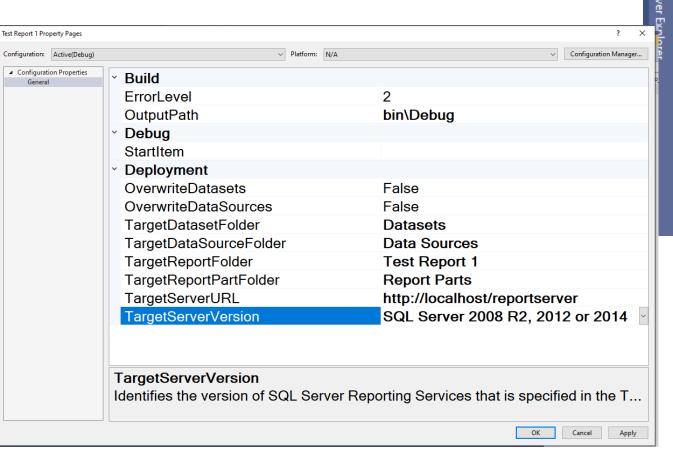


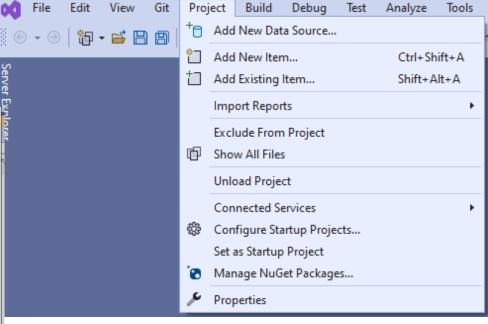
#### ONE TIME MODIFICATION OF PROPERTIES



Choose Project from top level menu and choose Properties

Choose TargetServerVersion

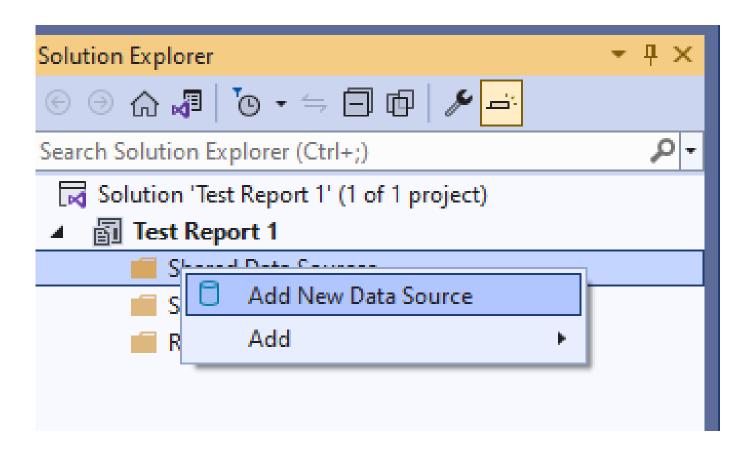








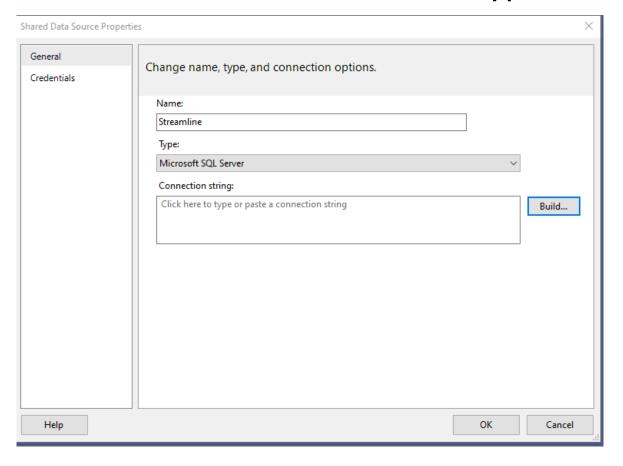
Select Shared Data Sources, right click and choose Add New Data Source



## SET UP A SHARED DATASOURCE

CAIMHSA
California Mental Health Services Authority

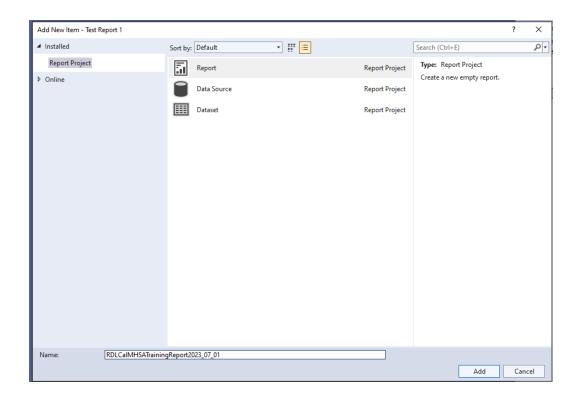
- Enter **Streamline** as Name
- Enter Microsoft SQL Server for Type

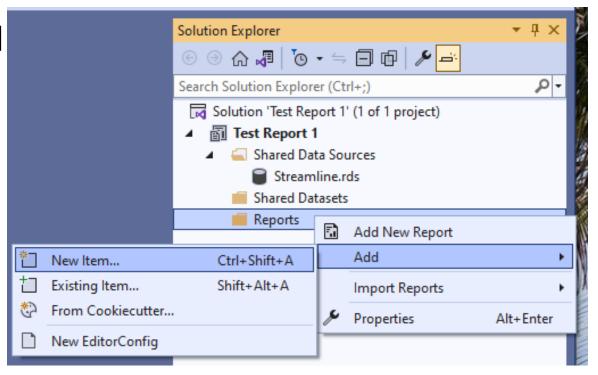


#### **CREATE NEW REPORT**



- Right click on Reports and choose Add
- Choose New Item
- Choose Report

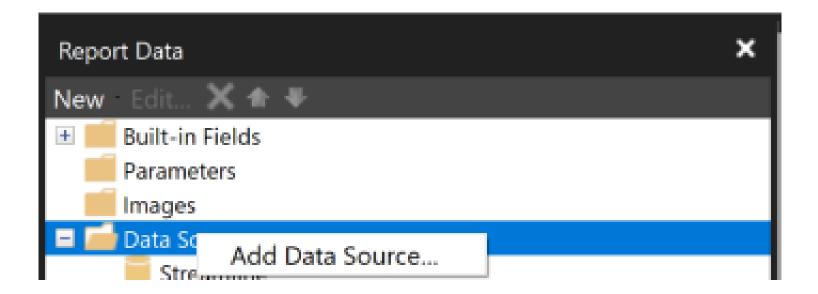




#### SETUP STEPS IN MS REPORT BUILDER



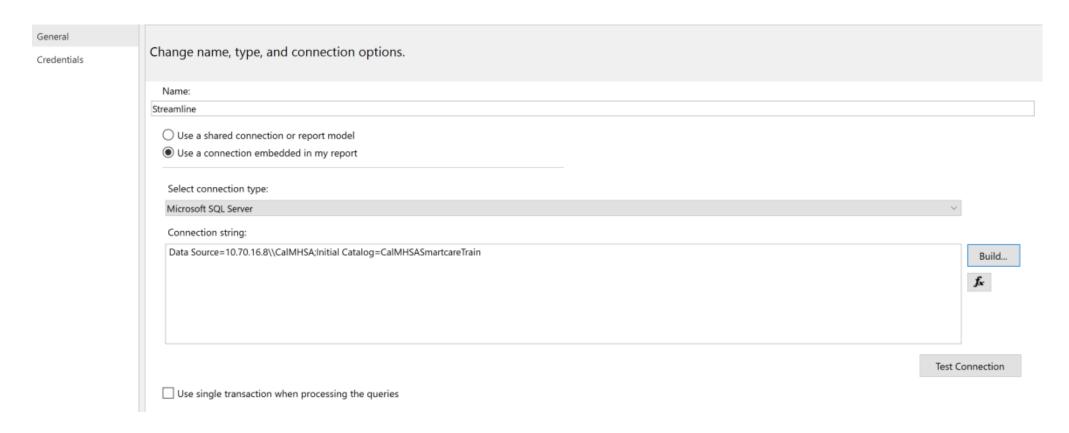
- Install MS Report Builder
  - https://www.microsoft.com/en-us/download/details.aspx?id=53613
- Open MS Report Builder and in the report RDL file, go to Data Sources and Add data source
- NOTE To EDIT locally, you need to have an embedded data source and DISCONNECTED to the Report Server



#### **CREATE NEW DATA SOURCE**



- Enter data source name
- Choose Microsoft SQL Server in the Select Connection Type field
- Click Build



#### **ENTER CREDENTIALS**

- Enter IP Address for Server Name
  - CalMHSA will provide to counties
- Choose SQL Server Authentication for Authentication
- Enter User Name and Password
  - Obtained from Streamline for users that will be report writers
- Choose database from drop down and click **Test Connection**



Connection Properties	?	×
Data source:		
Microsoft SQL Server (SqlClient)	Change	e
Server name:		
10.70.16.8\CalMHSA ~	Refres	h
Log on to the server		
O Use Windows Authentication		
Use SQL Server Authentication		
User name: pmerna		
Password:		
Save my password		
Connect to a database		
Select or enter a database name:		_
CalMHSASmartcareTrain		~
Attach a database file:		
	Browse	
Logical name:		
	Advance	d
Test Connection OK	Cance	el .

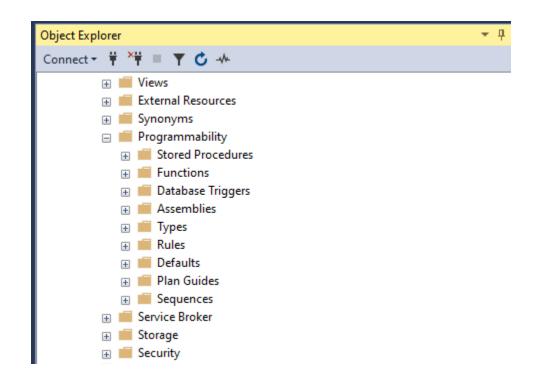


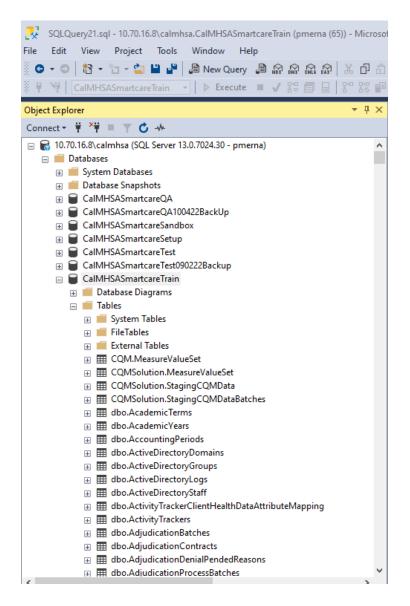
# CREATE QUERY IN SSMS

### **USE SSMS OR ANOTHER SQL REPORTING SOFTWARE**



- Create New Query and choose database
- Expand Tables to view available tables
- Expand Programmability to view Stored Procedures, Functions, etc.





#### SMARTCARE IS A NORMALIZED DATABASE

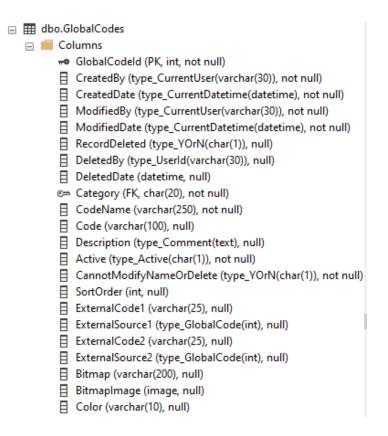


 Normalized database thus only the code (Global Code) Id will file within a column in a table that contains a dictionary type field

There is a global code table that will list each entry for a give global

code category

 You do NOT have to join the GlobalCodes table to all your queries because there is a stored procedure that will display the value rather than the code



## **WRITE QUERY**



- Write query
- Note Almost all tables in SmartCare have a RecordDeleted field so make sure to deselect within the WHERE clause

```
□use CalMHSASmartcareTrain
- SELECT
 c.CLientId as 'Client ID'
 ,c.FirstName as 'First Name'
 ,c.LastName as 'Last Name'
 ,dbo.GetClientAgeByDOB(c.DOB,c.ClientId) as' Age'
 ,dbo.ssf GetGlobalCodeNamebyId(c.GenderIdentity) as' Gender Identity'
 ,p.ProgramName as 'Program'
 ,dbo.ssf GetGlobalCodeNamebyId(cp.Status) as 'Status'
 ,cp.EnrolledDate as 'Enrolled Date'
 ,cp.DischargedDate as 'Discharge Date'
 FROM Clients c
 JOIN ClientPrograms cp on cp.ClientId=c.CLientId
 JOIN Programs p on p.ProgramId=cp.ProgramId
 WHERE ISNULL(c.RecordDeleted, 'N')='N'
 --AND cp.EnrolledDate between @FROMDATE AND @THRUDATE
```

#### **GLOBAL CODE TRANSLATION**



 Global codes can be translated by using stored procedure – dbo.GetGlobalCodeNamebyId(table.field)

```
□use CalMHSASmartcareTrain
FISELECT
 c.CLientId as 'Client ID'
 ,c.FirstName as 'First Name'
 ,c.LastName as 'Last Name'
 ,dbo.GetClientAgeByDOB(c.DOB,c.ClientId) as' Age'
 ,dbo.ssf GetGlobalCodeNamebyId(c.GenderIdentity) as' Gender Identity'
 ,p.ProgramName as 'Program'
 ,dbo.ssf GetGlobalCodeNamebyId(cp.Status) as 'Status'
 ,cp.EnrolledDate as 'Enrolled Date'
 ,cp.DischargedDate as 'Discharge Date'
 FROM Clients c
 JOIN ClientPrograms cp on cp.ClientId=c.CLientId
 JOIN Programs p on p.ProgramId=cp.ProgramId
 WHERE ISNULL(c.RecordDeleted, 'N')='N'
 --AND cp.EnrolledDate between @FROMDATE AND @THRUDATE
```

#### **GLOBAL CODE TRANSLATION**



- The dbo.ssf\_GetGlobalCodeNamebyId stored procedure may result in an error in SSMS but will work when the report is launched in SmartCare
- Another option to display global codes in SSMS is to use the following select statement:

# (SELECT CodeName FROM GlobalCodes WHERE GlobalCodeId = <INSERTCOLUMNHERE>)

Example – maritalstatus field from Clients table

```
☐ select ClientId as 'Client ID',

(SELECT CodeName FROM GlobalCodes WHERE GlobalCodeId = maritalstatus) as 'Marital Status'

from clients
```

	Results		Messages	
	Client	ID	Marital Status	
1	1		Never Manied	
2	1007		Unknown	

#### **GLOBAL CODE TRANSLATION**



 There are also functions such as dbo.GetClientAgeByDOB to display age in years

```
□use CalMHSASmartcareTrain
FISELECT
 c.CLientId as 'Client ID'
 ,c.FirstName as 'First Name'
 .c.LastName as 'Last Name'
 ,dbo.GetClientAgeByDOB(c.DOB,c.ClientId) as' Age'
 ,dbo.ssf GetGlobalCodeNamebyId(c.GenderIdentity) as' Gender Identity'
 ,p.ProgramName as 'Program'
 ,dbo.ssf GetGlobalCodeNamebyId(cp.Status) as 'Status'
 ,cp.EnrolledDate as 'Enrolled Date'
 ,cp.DischargedDate as 'Discharge Date'
 FROM Clients c
 JOIN ClientPrograms cp on cp.ClientId=c.CLientId
 JOIN Programs p on p.ProgramId=cp.ProgramId
 WHERE ISNULL(c.RecordDeleted, 'N')='N'
 --AND cp.EnrolledDate between @FROMDATE AND @THRUDATE
```

### AGE FUNCTION DISPLAYED

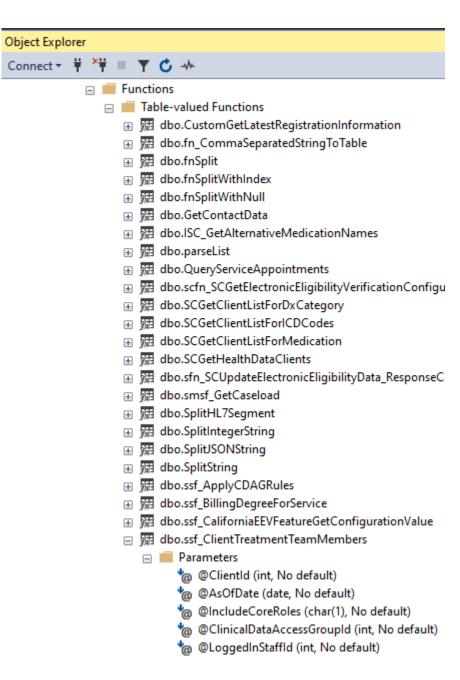
CAIMHSA
California Mental Health Services Authority

No need to use cast or datediff function in query

III F	Results 📳	Messages		
	Client ID	First Name	Last Name	Age
1	1007	JaCoB	BAizE	19 Years
2	1007	JaCoB	BAizE	19 Years
3	1007	JaCoB	BAizE	19 Years
4	1009	Service	Everyman	3 Years
5	1011	June	Billing	33 Years
6	1011	June	Billing	33 Years
7	1011	June	Billing	33 Years
8	1	Client	Everyman	23 Years
9	1012	NULL	NULL	NULL
10	1009	Service	Everyman	3 Years
11	1	Client	Everyman	23 Years
12	1015	Jim	Tesla	43 Years
13	1019	Dwight	Schrute	38 Years

## **FUNCTIONS AVAILABLE**

 There are many functions available and expanding the Functions folder and expanding the function will display the parameters that need to be passed to the function

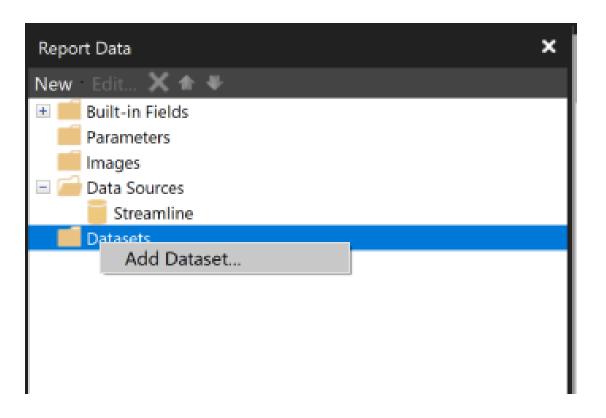




## BACK TO MS REPORT BUILDER TO INSERT DATA SET



- Copy the SQL query code and go back to MS Report Builder
- Right click on Datasets and choose Add Dataset



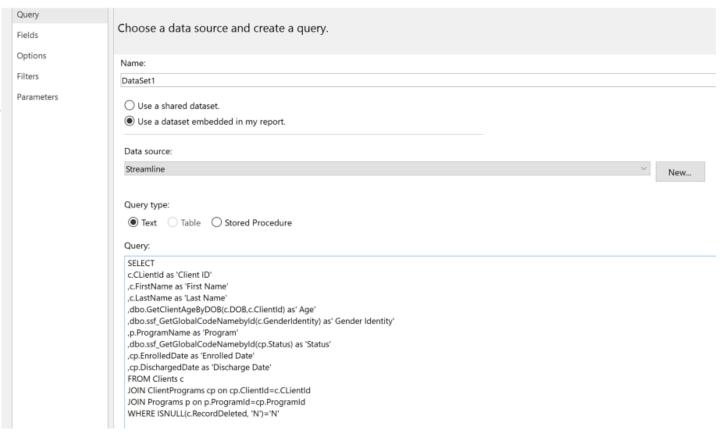


Enter the Dataset name and choose Use a dataset embedded in my

report

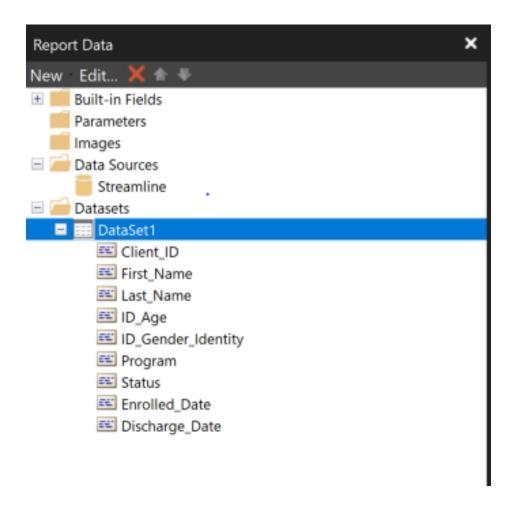
Choose Streamline
 Datasource created earlier

 Choose **Text** Query type and insert copied query from SSMS



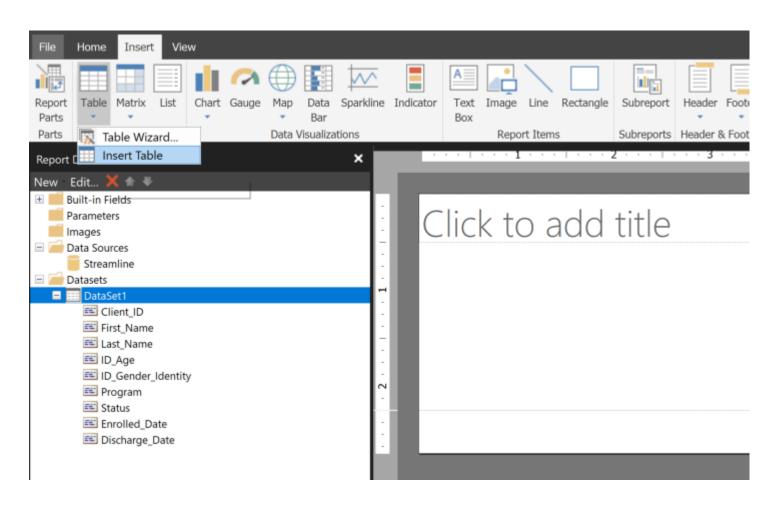


• Fields from **Dataset** are now available to be placed in the report





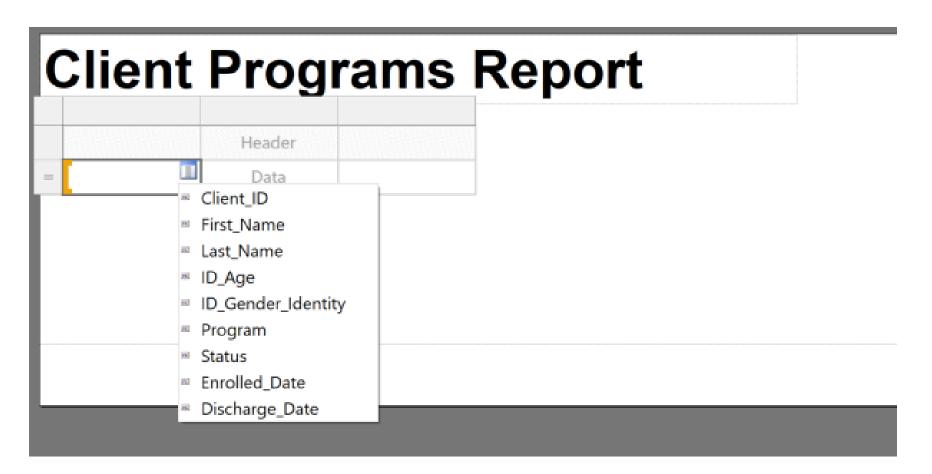
Go to Insert menu and choose Table



#### **INSERT FIELDS**



- Click in upper right corner of table column and choose field
- More columns can be added later



#### **PRINT PREVIEW**



• Click Run in upper left while in Design mode to preview report



#### **Client Programs Report**

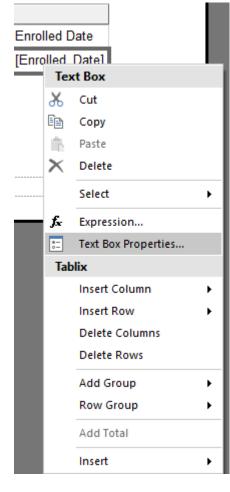
Client ID	First Name	Last Name	Age	Gender Identity	Program	Status	Enrolled Date
1007	JaCoB	BAizE	19 Years	Male	MH Screening	Enrolled	3/7/2022 12:00:00 AM
1007	JaCoB	BAizE	19 Years	Male	SUD Screening	Discharged	3/7/2022 12:00:00 AM
1007	JaCoB	BAizE	19 Years	Male	Jacob's Test Program	Enrolled	3/7/2022 12:00:00 AM
1009	Service	Everyman	3 Years		Access Unit	Enrolled	2/2/2022 12:00:00 AM
1011	June	Billing	33 Years		Access Unit	Enrolled	1/1/2022 12:00:00 AM
1011	June	Billing	33 Years		MH Screening	Enrolled	1/10/2022 12:00:00 AM
1011	June	Billing	33 Years		Main St - Psychiatric Services	Enrolled	1/10/2022 12:00:00 AM
1	Client	Everyman	23 Years	Male	Main St - Psychiatric Services	Enrolled	3/1/2022 12:00:00 AM
1012					No Episode	Enrolled	1/1/2022 12:00:00 AM
1009	Service	Everyman	3 Years		Jacob's Test Program	Enrolled	5/10/2022 12:00:00 AM
1	Client	Everyman	23 Years	Male	Jacob's Test Program	Enrolled	5/10/2022 12:00:00 AM
1015	Jim	Tesla	43 Years		Inpatient PHF	Enrolled	6/1/2022 12:00:00 AM
1019	Dwight	Schrute	38 Years		Adult Crisis Residential	Discharged	4/1/2022 12:00:00 AM
1022	Pam	Zimmerman	40 Years		Day Treatment Full Day	Enrolled	5/1/2022 12:00:00 AM
1023	Michael	Scott	44 Years		Day Treatment Half Intensive	Enrolled	3/31/2022 12:00:00 AM
1024	Creed	Williams	75 Years		Day Treatment Half Rehab	Enrolled	5/31/2022 12:00:00 AM
1025	Phyllis	Vance	42 Years		Non Perinatal Intensive	Enrolled	5/31/2022 12:00:00 AM

#### DATE FIELD FORMATTING



Right click on date/time field in Design tab and select Text Box

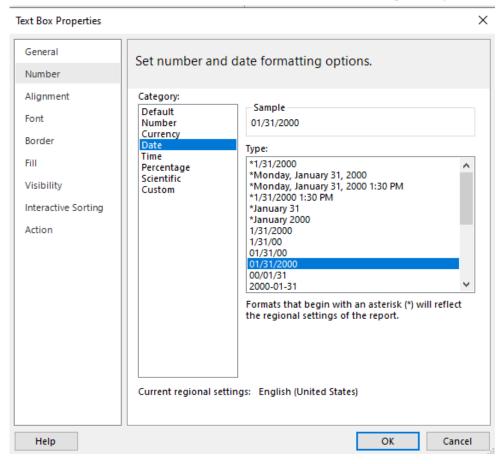
**Properties** 



#### DATE FIELD FORMATTING



- Right click on date/time field in Design tab and select Text Box
   Properties
- Choose Number and select Date Category and choose desired format



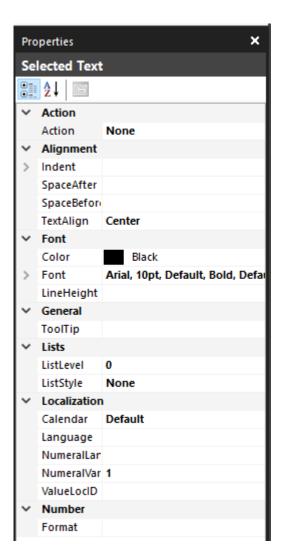
#### PRINT PREVIEW WITH DATE REFORMATTED



Other visual options are available in the Properties area

#### **Client Programs Report**

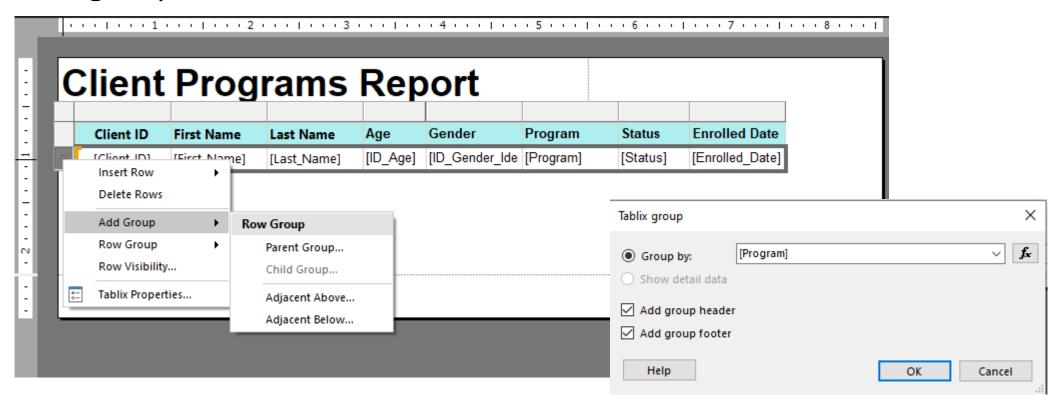
Client ID	First Name	Last Name	Age	Gender Identity	Program	Status	Enrolled Date
1007	JaCoB	BAizE	19 Years	Male	MH Screening	Enrolled	03/07/2022
1007	JaCoB	BAizE	19 Years	Male	SUD Screening	Discharged	03/07/2022
1007	JaCoB	BAizE	19 Years	Male	Jacob's Test Program	Enrolled	03/07/2022
1009	Service	Everyman	3 Years		Access Unit	Enrolled	02/02/2022
1011	June	Billing	33 Years		Access Unit	Enrolled	01/01/2022
1011	June	Billing	33 Years		MH Screening	Enrolled	01/10/2022
1011	June	Billing	33 Years		Main St - Psychiatric Services	Enrolled	01/10/2022
1	Client	Everyman	23 Years	Male	Main St - Psychiatric Services	Enrolled	03/01/2022
1012					No Episode	Enrolled	01/01/2022
1009	Service	Everyman	3 Years		Jacob's Test Program	Enrolled	05/10/2022
1	Client	Everyman	23 Years	Male	Jacob's Test Program	Enrolled	05/10/2022
1015	Jim	Tesla	43 Years		Inpatient PHF	Enrolled	06/01/2022
1019	Dwight	Schrute	38 Years		Adult Crisis Residential	Discharged	04/01/2022
1022	Pam	Zimmerman	40 Years		Day Treatment Full Day	Enrolled	05/01/2022
1023	Michael	Scott	44 Years		Day Treatment Half Intensive	Enrolled	03/31/2022
1024	Creed	Williams	75 Years		Day Treatment Half Rehab	Enrolled	05/31/2022
1025	Phyllis	Vance	42 Years		Non Perinatal Intensive Outpatient	Enrolled	05/31/2022
1026	Stanley	Yunis	55 Years		Non Perinatal Outpatient	Enrolled	06/30/2022
1027	Kelly	Walla	36 Years		NTP Non Perinatal	Enrolled	04/30/2022



#### ADD GROUPING



- Right click on left of detail area and select Add Group Parent Group
- Choose field from Group by: prompt
- Add group header and footer if desired



## ADD GROUPING - PREVIEW



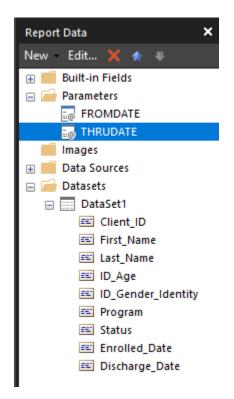
#### **Client Programs Report**

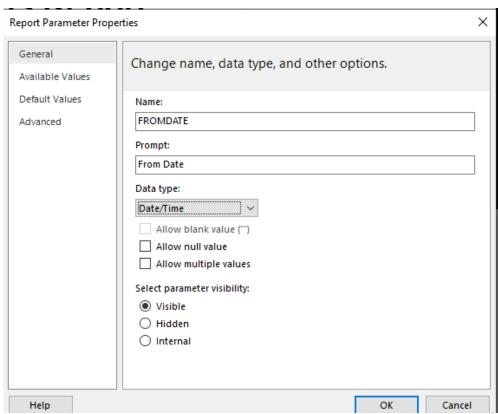
Program	Client ID	First Name	Last Name	Age	Gender Identity	Program	Status	Enrolled Date
Access Unit								
	1009	Service	Everyman	3 Years		Access Unit	Enrolled	02/02/2022
	1011	June	Billing	33 Years		Access Unit	Enrolled	01/01/2022
	1096	Jason	Asano	32 Years		Access Unit	Enrolled	11/09/2022
	1097	Emi	Asano	8 Years	Female	Access Unit	Enrolled	11/09/2022
	1080	Cindy	Childers	20 Years		Access Unit	Enrolled	11/09/2022
	1137	Ducakas	Tim	17 Years		Access Unit	Enrolled	12/01/2022
	1141	Sanity	Test	22 Years		Access Unit	Enrolled	08/23/2022
	1152	Dinesh	Test	34 Years		Access Unit	Enrolled	12/01/2022
	1149	Nam	Test	32 Years		Access Unit	Enrolled	11/01/2022
	1108	Mary	CalOMSDetox	25 Years		Access Unit	Enrolled	11/01/2022
	1166	Sasha	Smith	35 Years		Access Unit	Requested	
	1167	Jessica	Huron	12 Years		Access Unit	Enrolled	12/05/2022
	1151	Harika	Test	19 Years		Access Unit	Enrolled	11/23/2022
	1139	Girish1	Test	22 Years		Access Unit	Enrolled	11/01/2022
	1170	Client	Test	32 Years		Access Unit	Enrolled	12/01/2022
	1189	Standardintake Adult	Test	43 Years		Access Unit	Enrolled	12/23/2022
	1194	Regular	Tester	21 Years		Access Unit	Requested	
	1206	Jessica	Test	22 Years		Access Unit	Enrolled	12/28/2022
	1208	George	Test	21 Years		Access Unit	Enrolled	01/12/2023
	1239	Manual	Training	20 Years		Access Unit	Enrolled	01/18/2023
	1291	Video	Training	23 Years	Transgender	Access Unit	Enrolled	02/12/2023
	1302	Rigi	Test	22 Years		Access Unit	Enrolled	03/01/2023
Adult Crisis								
Residential	1019	Dwight	Schrute	38 Years		Adult Crisis Residential	Discharged	04/01/2022

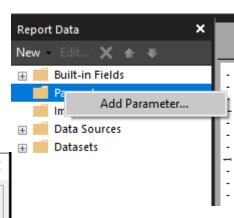
#### **ADD DATE PARAMETERS**



- Right click on Parameters and select Add Parameter
- Enter Name of parameter and prompt
- Choose Data type: Date/Time
- Repeat as necessary







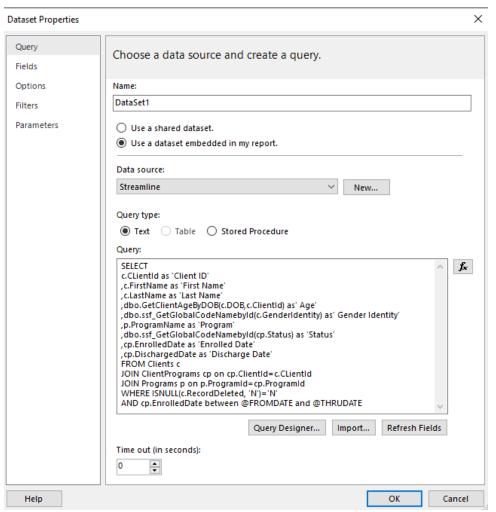
#### ADD DATE PARAMETERS TO DATASET



Double click on Dataset and modify query to include date parameters

to Query

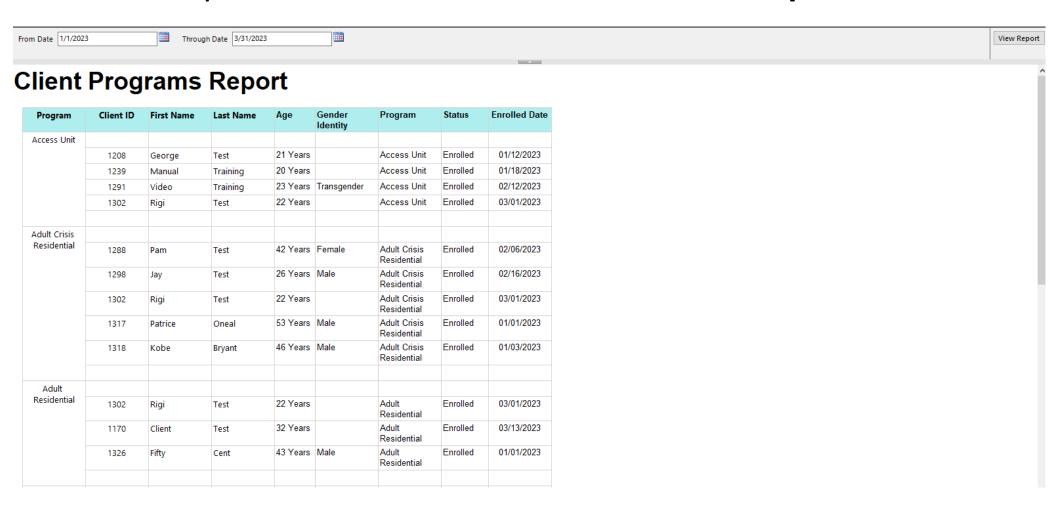
 Click Refresh Fields when query is finalized and then click OK



#### PRINT PREVIEW WITH DATE PARAMETERS



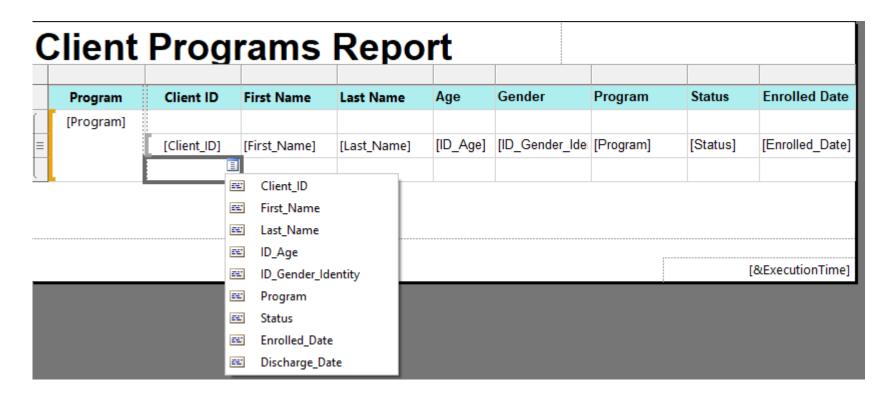
Enter data parameter values and click on View Report



#### ADD GROUP TOTAL



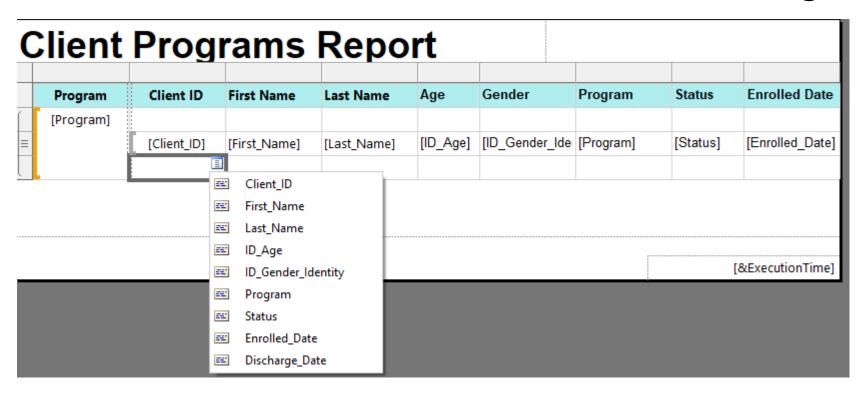
 Click on upper right of column in group footer to subtotal and choose field to summarize

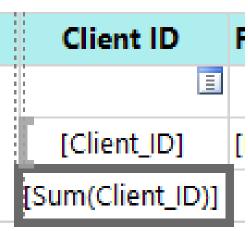


#### ADD GROUP TOTAL



- Click on upper right of column in group footer to subtotal and choose field to summarize
- Initial subtotal will default to Sum but can be changed

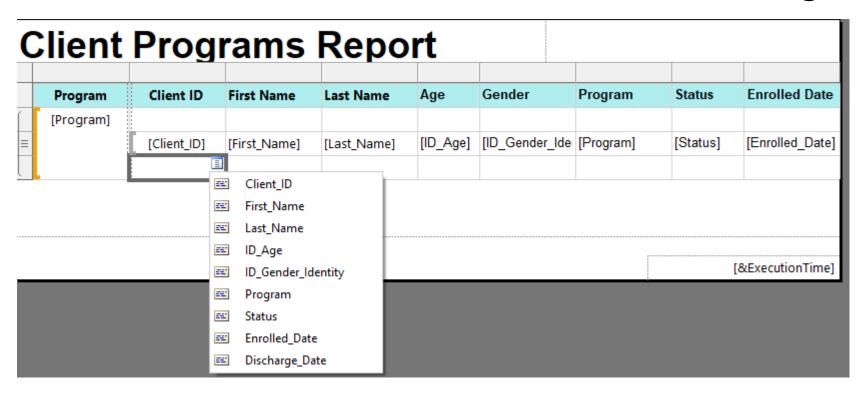


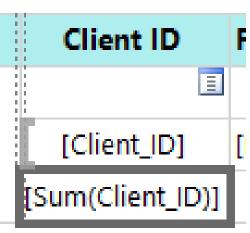


#### ADD GROUP TOTAL



- Click on upper right of column in group footer to subtotal and choose field to summarize
- Initial subtotal will default to Sum but can be changed

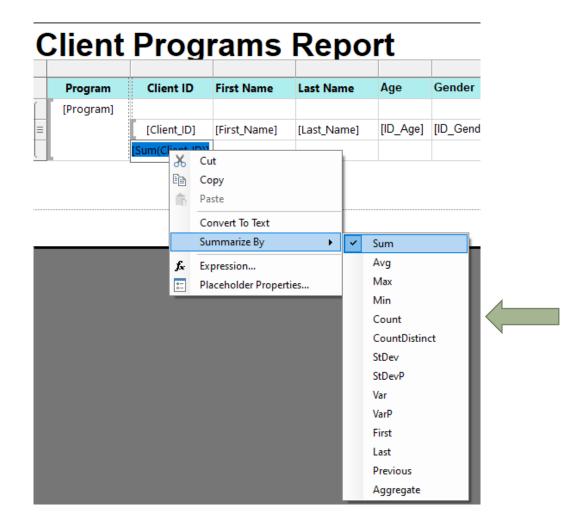


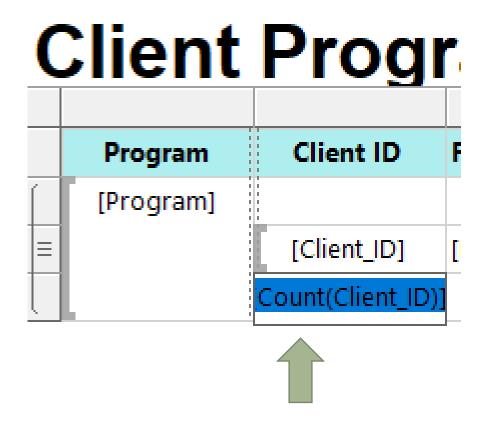


#### **CHANGE GROUP TOTAL**



 Right click on group total and choose Summarize By to change group total from Sum to Count





## PRINT PREVIEW WITH SUBTOTALS

<b>CalMHSA</b>	
California Mental Health Services Authority	

From Date	1/1/2023	Through Date	3/31/2023	
				_

#### Client Programs Report

Program	Client ID	First Name	Last Name	Age	Gender Identity	Program	Status	Enrolled Date
Access Unit								
	1208	George	Test	21 Years		Access Unit	Enrolled	01/12/2023
	1239	Manual	Training	20 Years		Access Unit	Enrolled	01/18/2023
	1291	Video	Training	23 Years	Transgender	Access Unit	Enrolled	02/12/2023
	1302	Rigi	Test	22 Years		Access Unit	Enrolled	03/01/2023
	4							
Adult Crisis								
Residential	1288	Pam	Test	42 Years	Female	Adult Crisis Residential	Enrolled	02/06/2023
	1298	Jay	Test	26 Years	Male	Adult Crisis Residential	Enrolled	02/16/2023
	1302	Rigi	Test	22 Years		Adult Crisis Residential	Enrolled	03/01/2023
	1317	Patrice	Oneal	53 Years	Male	Adult Crisis Residential	Enrolled	01/01/2023
	1318	Kobe	Bryant	46 Years	Male	Adult Crisis Residential	Enrolled	01/03/2023
	5							
Adult								
Residential	1302	Rigi	Test	22 Years		Adult Residential	Enrolled	03/01/2023
	1170	Client	Test	32 Years		Adult Residential	Enrolled	03/13/2023
	1326	Fifty	Cent	43 Years	Male	Adult Residential	Enrolled	01/01/2023
	3							



# HOW TO ENFORCE CDAG (CFR42) SECURITY IN REPORTS

#### **CDAG ENFORCEMENT**



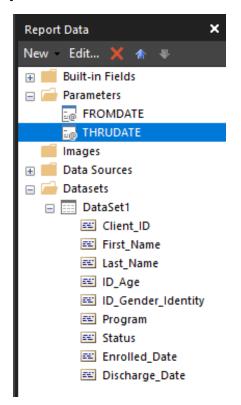
- When creating custom reports in SmartCare, it is up to the report writer to enforce CDAG functionality
- The best way to enforce CDAG in SmartCare reports
  - Create @ClinicalDataAccessGroupId and @ExecutedByStaffId parameters in all reports
  - SmartCare framework that will automatically add the values for these parameters while opening the report from the system
  - Once the parameters have been added, use of a common function for implementing the logic before the WHERE clause in the dataset

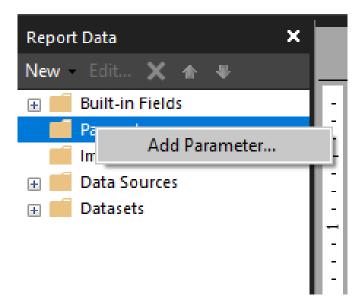
CROSS APPLY dbo.ssf\_ApplyCDAGRules(@ClinicalDataAccessGroupId, ProgramId, ClientId, DocumentId, @ExecutedByStaffId)

#### **ADD DATE PARAMETERS**



- Right click on Parameters and select Add Parameter
- Enter Name of parameter and prompt
- Choose Data type: Date/Time
- Repeat as necessary

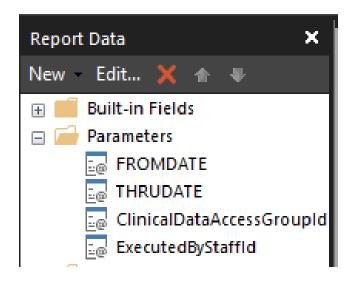


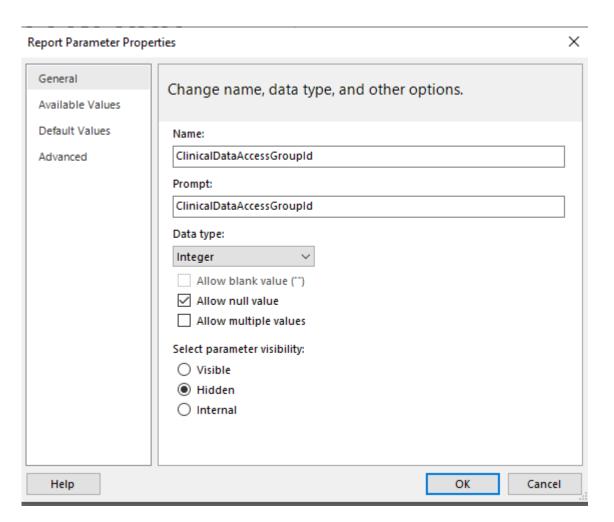


#### ADD CDAG HIDDEN PARAMETERS



- Right click on Parameters and select Add Parameter
- Enter ClinicalDataAccessGroupId
- Check Allow null value
- Choose Data type = Integer
- Repeat for @ExecutedByStaffId



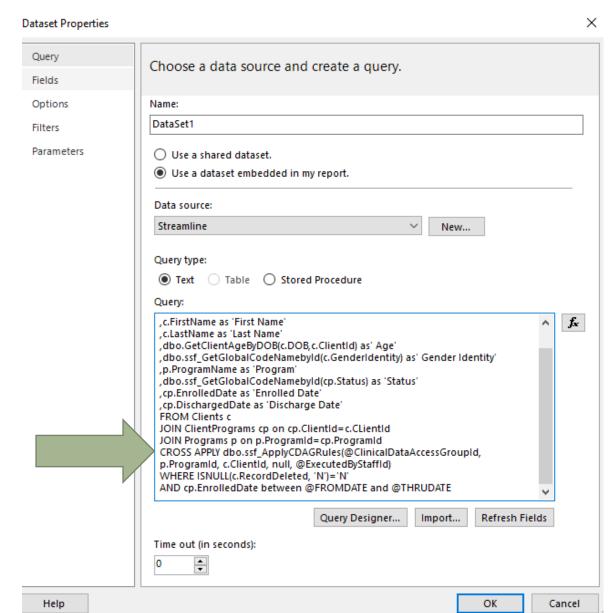


## **MODIFY DATASET QUERY**

- Add CROSS APPLY dbo.ssf\_ApplyCDAGRules( @ClinicalDataAccessGrou pld, ProgramId, @ClientId, DocumentId, @ExecutedByStaffId) before WHERE clause and replace Client ID, Program ID references with fields
- If no document ID, is in the report, replace with null value

from report tables





# PRINT PREVIEW WITH CDAG



From Date	1/1/2023	Through Date	3/31/2023	

#### **Client Programs Report**

Program	Client ID	First Name	Last Name	Age	Gender Identity	Program	Status	Enrolled Date
CalMHSA								
Admin	1243	Robert	Fripp	13 Years		CalMHSA Admin	Enrolled	01/05/2023
	1007	JaCoB	BAizE	19 Years	Male	CalMHSA Admin	Enrolled	01/13/2023
	2							
Outpatient MH								
Adult	1282	Bono	Hewson	53 Years	Other	Outpatient MH Adult	Enrolled	01/01/2023
	1285	Jose	Testing	22 Years	Male	Outpatient MH Adult	Enrolled	01/30/2023
	2							
SUD Outpatient								
Adult	1007	JaCoB	BAizE	19 Years	Male	SUD Outpatient Adult	Discharged	01/06/2023
	1243	Robert	Fripp	13 Years		SUD Outpatient Adult	Enrolled	01/09/2023
	1007	JaCoB	BAizE	19 Years	Male	SUD Outpatient Adult	Enrolled	01/12/2023
	1285	Jose	Testing	22 Years	Male	SUD Outpatient Adult	Enrolled	02/14/2023
	4							



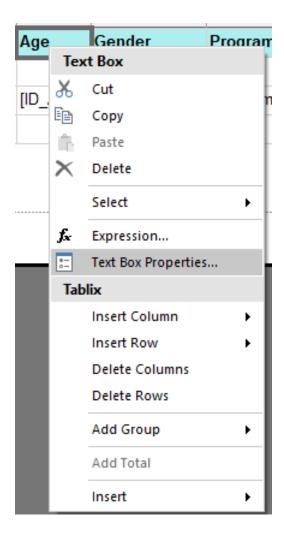
# **BONUS FEATURE! INTERACTIVE COLUMN SORTING**

## HOW TO ENABLE INTERACTIVE SORTING

CalMHSA
California Mental Health Services Authority

Click on column header and choose

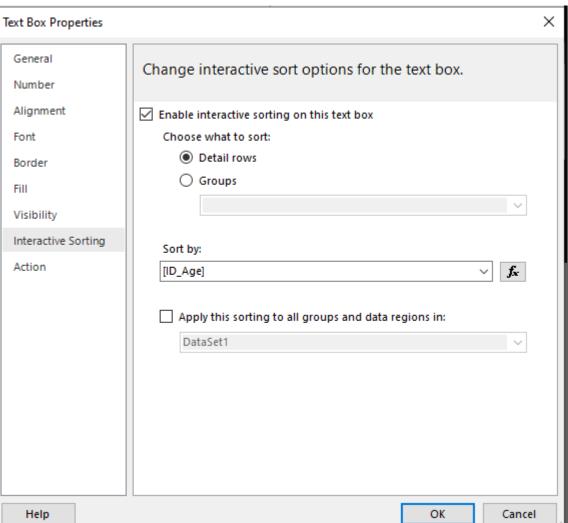
**Text Box Properties** 



## HOW TO ENABLE INTERACTIVE SORTING



- Click Enable interactive sorting on this text box
- Choose Detail Rows
- Choose field in Sort by



## PRINT PREVIEW WITH INTERACTIVE SORTING ON AGE



#### **Client Programs Report**



Program	Client ID	First Name	Last Name	Age ⊙	Gender Identity	Program	Status	Enrolled Date
CalMHSA								
Admin	1007	JaCoB	BAizE	19 Years	Male	CalMHSA Admin	Enrolled	01/13/2023
	1243	Robert	Fripp	13 Years		CalMHSA Admin	Enrolled	01/05/2023
	2							
Outpatient MH								
Adult	1282	Bono	Hewson	53 Years	Other	Outpatient MH Adult	Enrolled	01/01/2023
	1285	Jose	Testing	22 Years	Male	Outpatient MH Adult	Enrolled	01/30/2023
	2							
SUD Outpatient								
Adult	1285	Jose	Testing	22 Years	Male	SUD Outpatient Adult	Enrolled	02/14/2023
	1007	JaCoB	BAizE	19 Years	Male	SUD Outpatient Adult	Discharged	01/06/2023
	1007	JaCoB	BAizE	19 Years	Male	SUD Outpatient Adult	Enrolled	01/12/2023
	1243	Robert	Fripp	13 Years		SUD Outpatient Adult	Enrolled	01/09/2023
	4							

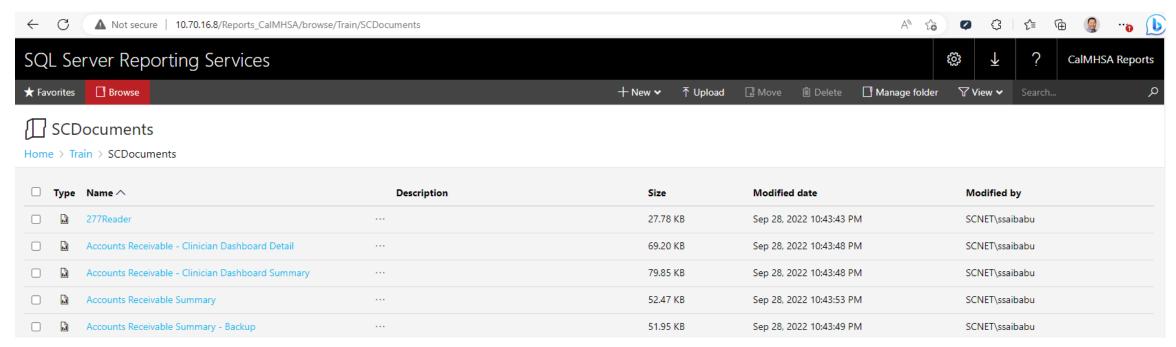


# UPLOADING REPORTS INTO SMARTCARE

### HOW TO UPLOAD REPORTS TO REPORT SERVER



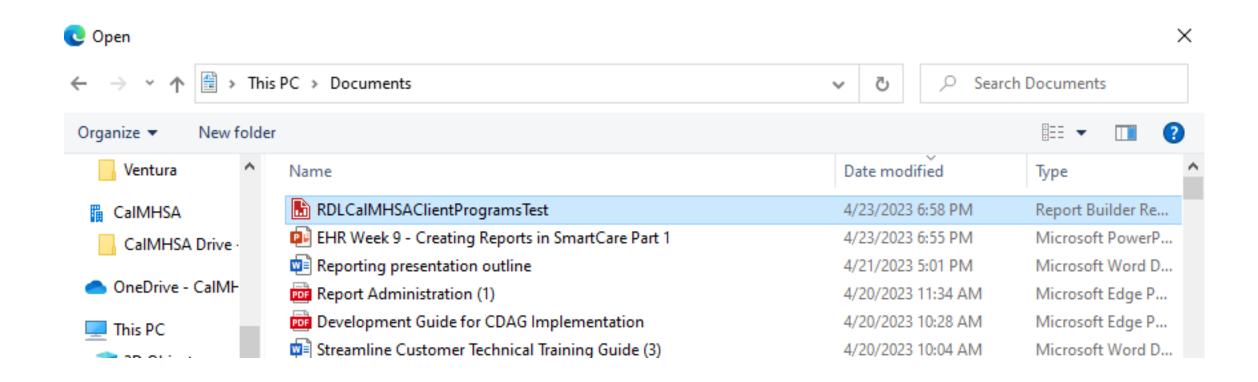
- Open web browser and go to url for report server
  - County Report Server urls will be provided by CalMHSA
- Log in and choose database to upload report
  - Report server credentials should be the same as SQL server credentials



### HOW TO UPLOAD REPORTS TO REPORT SERVER



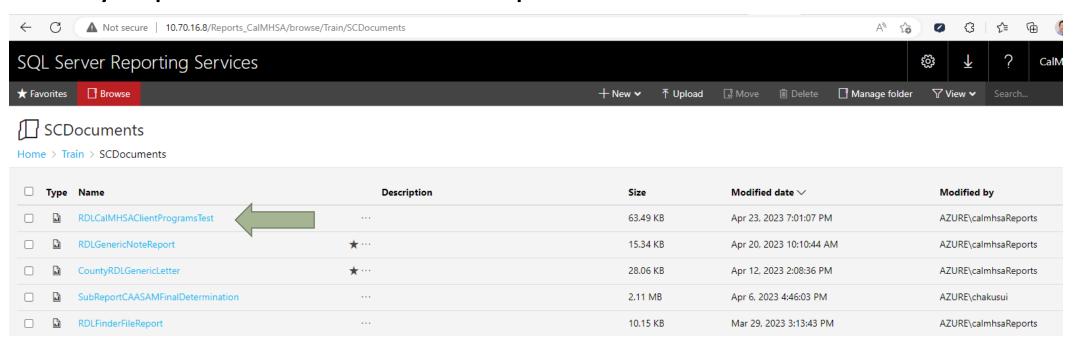
Click Upload and navigate to file path where report is saved



#### HOW TO UPLOAD REPORTS TO REPORT SERVER



Verify report RDL file has been uploaded



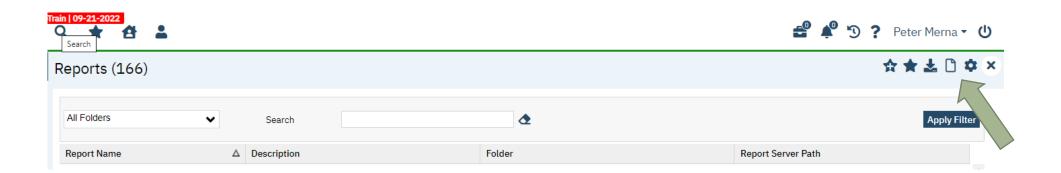
### **CREATE REPORT IN SMARTCARE**



Login into SmartCare and search for Reports (Administration)



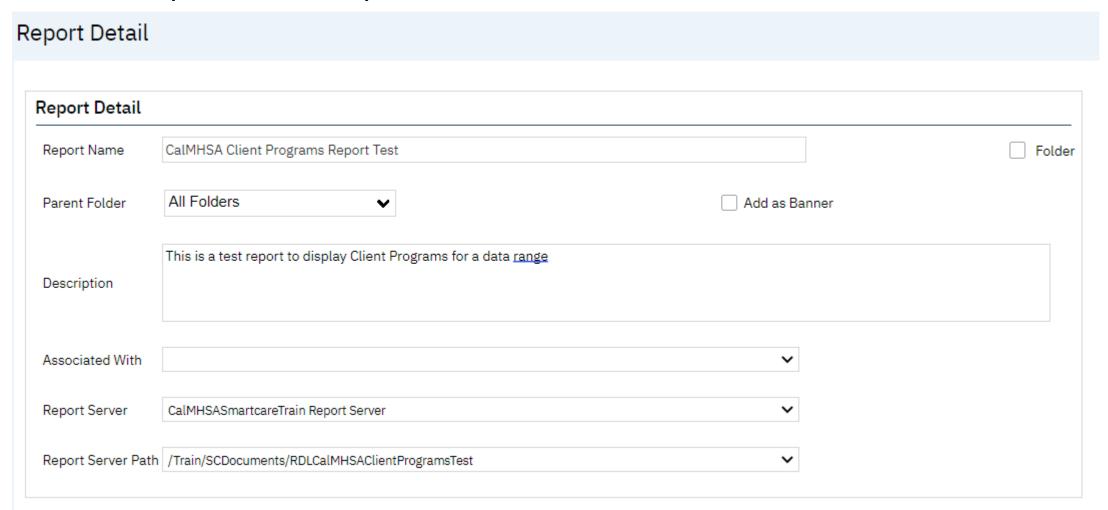
From list page, click New



#### CREATE REPORT IN SMARTCARE



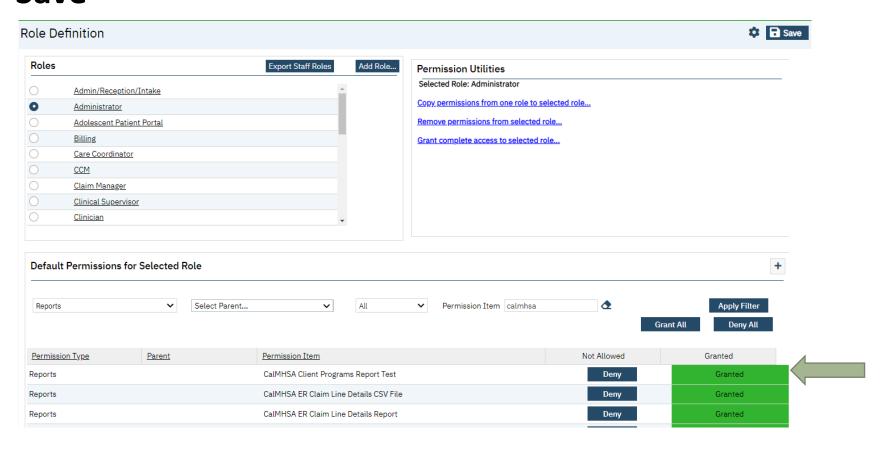
- Enter Report Name, Description and choose Report Server
- Select report from Report Server Path field



# MODIFY USER ROLE(S) AS NECESSARY



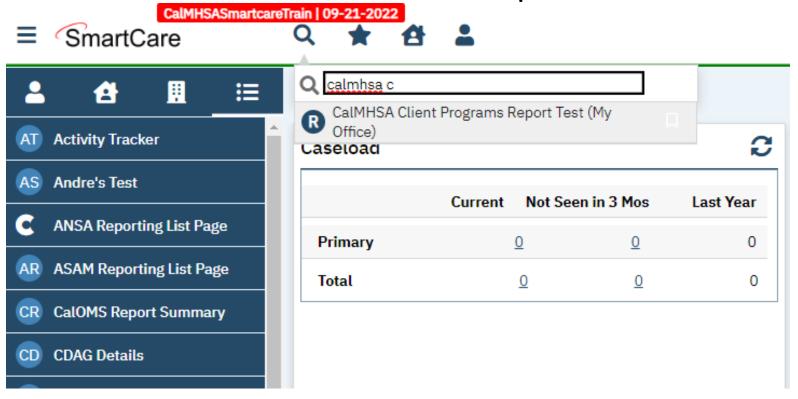
- Go to Role Definition, select role to modify
- Select Reports from drop down menu and click on Granted and click on Save



### TEST REPORT FROM SMARTCARE

CaIMHSA
California Mental Health Services Authority

- Log off and Log back in
- Go to form search and locate report



# PRINT PREVIEW FROM SMARTCARE





#### Client Programs Report

4/24/2023 11:41:47 AM

Program	Client ID	First Name	Last Name	Age ‡	Gender Identity	Program	Status	Enrolled Date
Access Unit								
	1208	George	Test	21 Years		Access Unit	Enrolled	01/12/2023
	1239	Manual	Training	20 Years		Access Unit	Enrolled	01/18/2023
	1291	Video	Training	23 Years	Transgender	Access Unit	Enrolled	02/12/2023
	1302	Rigi	Test	22 Years		Access Unit	Enrolled	03/01/2023
	4							
Adult Crisis								
Residential	1288	Pam	Test	42 Years	Female	Adult Crisis Residential	Enrolled	02/06/2023
	1298	Jay	Test	26 Years	Male	Adult Crisis Residential	Enrolled	02/16/2023
	1302	Rigi	Test	22 Years		Adult Crisis Residential	Enrolled	03/01/2023
	1317	Patrice	Oneal	53 Years	Male	Adult Crisis Residential	Enrolled	01/01/2023
	1318	Kobe	Bryant	46 Years	Male	Adult Crisis Residential	Enrolled	01/03/2023
	5							



# **FUTURE STEPS**

#### **FUTURE STEPS FOR REPORTS**



- CalMHSA to create forum on 2023.calmhsa.org website
  - Report sharing/repository
  - Report examples, tips, etc.
  - Sample queries, etc.
  - Report documentation
- Report request hub for CalMHSA vetted reports
- Report user group
- Report workshops



# **QUESTIONS?**