TFQ Asthma QI Measures and Logic

1. **Asthma Controller Use** – 1a) Percentage of patients with an ED visit and/or hospital admission who subsequently fill <1 prescription every three months for an inhaled steroid, either alone or in combination, 1b) Percentage of patients who fill >2 short acting bronchodilator prescriptions every year who subsequently fill <1 prescription every three months for an inhaled steroid, either alone or in combination, or fill < 2 prescriptions every three months for leukotriene modifiers or mast cell stabilizers.
2. **Annual Influenza Immunization** – Percentage of patients with an asthma diagnosis who receive an influenza immunization during the 12 month review period.
3. **Emergency Department (ED) Visits** – Percentage of patients with an asthma diagnosis who have ≥1 ED visit during the 12 month review period.
4. **Hospitalization** – Percentage of patients with an asthma diagnosis who have ≥1 inpatient admission for asthma treatment during the 12 month review period.

LOGIC

Denominator is all patients age one and older, diagnosed with asthma or on at least two short acting beta adrenergic agents during the measurement period. The denominator will include recipients with any claims with ICD-9-CM codes 493.00, 493.01, 493.02, 493.10, 493.11, 493.12, 493.81, 493.82, 493.90, 493.91, and 493.92 (excludes 493.20, 493.21 and 493.22) **OR** have had a prescription for two or more short acting beta adrenergic agents (Generic Code Number Sequence Numbers (GSN) of 04963, 04964, 04966, 04967, 04968, 05032, 05033, 05034, 05037, 05039, 05040, 16033, 22230, 28090, 41848, 41849, 48698, 48699, 49871, 51197, 51198, 54687, 57879, and 58890) with the dates of service March 01, 2006-February 28, 2007 with paid dates from March 01, 2006 through May 31, 2007.

Measurement period is 12 consecutive months.

The numerator will reflect the coding necessary to obtain the specific measures chosen by the TFQ Clinical Workgroup.

Query Panel for Asthma Denominator

Query Panel - Claims Analysis Universe

Scope of Analysis: None

Classes and Objects

- Claim Amounts and Counts
- Common Claim Information
- Crossover Claims Information
- Dental Claims ONLY Information
- Drug Claims ONLY Information
- UB92 Claim Information
- Provider Specific Information
- Recipient Specific Information
- Drug Rebate
- DSSProfiler Special Use Information
- Financial Transaction Information
- Miscellaneous Objects
- Study Group Tables
- Targeted Queries Report Information
- Report User ID

Result Objects

- Recipient ID
- Recipient Age FDOS - Calculated
- Recipient County Code & Description
- Recipient Race Code & Description
- Recipient Gender Code & Description

Conditions

- Or
  - Primary Diagnosis Code In list '49300,49301,49302,49310,49311,49312,49381,49382,49390,49391,49392'
  - Secondary Diagnosis Code In list '49300,49301,49302,49310,49311,49312,49381,49382,49390,49391,49392'
- And From Date of Service Between 3/1/2006 12:00:00 AM and 2/28/2007 12:00:00 AM
- And Payment Date Between 3/1/2006 12:00:00 AM and 5/31/2007 12:00:00 AM
- And Recipient Age FDOS - Calculated Different from 0
- And Claim Status Different from 'D'
- And Dual Eligible Grouping Not in list 'D98,D99,D1 ,D2 ,D3 ,D4 ,D5 ,D6 ,D7 ,D8 ,D9 '
- And Claim Type In list 'I,A,C,M,O,B'
- And ICN Undup Count Greater than or equal to 1

Query 1 | Query 2

Options... | Save and Close | View... | Run | Cancel

Query Panel - Claims Analysis Universe

Scope of Analysis: None

Classes and Objects

- Claim Amounts and Counts
- Common Claim Information
- Crossover Claims Information
- Dental Claims ONLY Information
- Drug Claims ONLY Information
- UB92 Claim Information
- Provider Specific Information
- Recipient Specific Information
- Drug Rebate
- DSSProfiler Special Use Information
- Financial Transaction Information
- Miscellaneous Objects
- Study Group Tables
- Targeted Queries Report Information
- Report User ID

Result Objects

- Recipient ID
- Recipient Age FDOS - Calculated
- Recipient County Code & Description
- Recipient Race Code & Description
- Recipient Gender Code & Description

Conditions

- And GSN In list 05037,04963,04964,04966,04967,04968,05032,05033,05034,05039,05040,16033,22230,28090,41848,41849,48698,48699,49871,51197,51198,54687,57879
- And From Date of Service Between 3/1/2006 12:00:00 AM and 2/28/2007 12:00:00 AM
- And Payment Date Between 3/1/2006 12:00:00 AM and 5/31/2007 12:00:00 AM
- And Recipient Age FDOS - Calculated Different from 0
- And Claim Status Different from 'D'
- And Dual Eligible Grouping Not in list 'D98,D99,D1 ,D2 ,D3 ,D4 ,D5 ,D6 ,D7 ,D8 ,D9 '
- And Claim Type In list 'P,Q'
- And ICN Undup Count Greater than or equal to 2

Query 1 | Query 2

This class contains all of the dollar amounts and pertinent counts related to claims, such as approved amount, billed amount, reimbursement amount, undup billing provider count, etc.

Options... | Save and Close | View... | Run | Cancel

SQL for Asthma Denominator

```
 (
SELECT
  DSS.T_CA_ICN.ID_MEDICAID,
   trunc(months_between(DSS.T_CA_ICN.DTE_FIRST_SVC,DSS.T_RE_BASE_DN.DTE_BIRTH)/12),
  DSS.T_CA_RECIP_KEY.CDE_RECIP_COUNTY || ' - ' || DSS.T_CA_RECIP_KEY.DSC_RECIP_COUNTY,
  DSS.T_CA_RECIP_KEY.CDE_RACE || ' - ' || DSS.T_CA_RECIP_KEY.DSC_RACE,
  DSS.T_CA_RECIP_KEY.CDE_SEX || ' - ' || DSS.T_CA_RECIP_KEY.DSC_SEX
FROM
  DSS.T_CA_ICN,
  DSS.T_RE_BASE_DN,
  DSS.T_CA_RECIP_KEY,
  DSS.T_CA_AID_GROUP
WHERE
  ( DSS.T_CA_ICN.RECIP_KEY=DSS.T_CA_RECIP_KEY.RECIP_KEY  )
  AND  ( DSS.T_RE_BASE_DN.SAK_RECIP(+)=DSS.T_CA_ICN.SAK_RECIP  )
  AND  ( DSS.T_CA_AID_GROUP.SAK_AID_GROUP=DSS.T_CA_ICN.SAK_AID_GROUP  )
  AND  (
  (DSS.T_CA_ICN.CDE_DIAG_PRIM  IN  ('49300', '49301', '49302', '49310', '49311', '49312', '49381', '49382', '49390', '49391', '49392')
  OR   DSS.T_CA_ICN.CDE_DIAG_2  IN  ('49300', '49301', '49302', '49310', '49311', '49312', '49381', '49382', '49390', '49391', '49392'))
  AND  DSS.T_CA_ICN.DTE_FIRST_SVC  BETWEEN  '03-01-2006 00:00:00' AND '02-28-2007 00:00:00'
  AND  DSS.T_CA_ICN.DTE_PTN  BETWEEN  '03-01-2006 00:00:00' AND '05-31-2007 00:00:00'
  AND   trunc(months_between(DSS.T_CA_ICN.DTE_FIRST_SVC,DSS.T_RE_BASE_DN.DTE_BIRTH)/12)  !=  0
  AND  DSS.T_CA_ICN.CDE_DTL_STATUS  !=  'D'
  AND  DSS.T_CA_AID_GROUP.CDE_GROUP_D  NOT IN  ('D98', 'D99', 'D1 ', 'D2 ', 'D3 ', 'D4 ', 'D5 ', 'D6 ', 'D7 ', 'D8 ', 'D9 ')
  AND  DSS.T_CA_ICN.CDE_CLM_TYPE  IN  ('I', 'A', 'C', 'M', 'O', 'B')
  )
GROUP BY
  DSS.T_CA_ICN.ID_MEDICAID,
   trunc(months_between(DSS.T_CA_ICN.DTE_FIRST_SVC,DSS.T_RE_BASE_DN.DTE_BIRTH)/12),
  DSS.T_CA_RECIP_KEY.CDE_RECIP_COUNTY || ' - ' || DSS.T_CA_RECIP_KEY.DSC_RECIP_COUNTY,
  DSS.T_CA_RECIP_KEY.CDE_RACE || ' - ' || DSS.T_CA_RECIP_KEY.DSC_RACE,
  DSS.T_CA_RECIP_KEY.CDE_SEX || ' - ' || DSS.T_CA_RECIP_KEY.DSC_SEX
HAVING
  ( count(DISTINCT DSS.T_CA_ICN.NUM_ICN)  >=  1)
UNION
SELECT
  DSS.T_CA_ICN.ID_MEDICAID,
   trunc(months_between(DSS.T_CA_ICN.DTE_FIRST_SVC,DSS.T_RE_BASE_DN.DTE_BIRTH)/12),
  DSS.T_CA_RECIP_KEY.CDE_RECIP_COUNTY || ' - ' || DSS.T_CA_RECIP_KEY.DSC_RECIP_COUNTY,
  DSS.T_CA_RECIP_KEY.CDE_RACE || ' - ' || DSS.T_CA_RECIP_KEY.DSC_RACE,
  DSS.T_CA_RECIP_KEY.CDE_SEX || ' - ' || DSS.T_CA_RECIP_KEY.DSC_SEX
FROM
  DSS.T_CA_ICN,
  DSS.T_RE_BASE_DN,
  DSS.T_CA_RECIP_KEY,
  DSS.T_CA_DRUG,
  DSS.T_CA_AID_GROUP
WHERE
  ( DSS.T_CA_ICN.RECIP_KEY=DSS.T_CA_RECIP_KEY.RECIP_KEY  )
  AND  ( DSS.T_CA_DRUG.SAK_CLAIM(+)=DSS.T_CA_ICN.SAK_CLAIM and DSS.T_CA_DRUG.DTE_PTN(+)=DSS.T_CA_ICN.DTE_PTN  )
  AND  ( DSS.T_RE_BASE_DN.SAK_RECIP(+)=DSS.T_CA_ICN.SAK_RECIP  )
  AND  ( DSS.T_CA_AID_GROUP.SAK_AID_GROUP=DSS.T_CA_ICN.SAK_AID_GROUP  )
  AND  (
  DSS.T_CA_DRUG.NUM_DRUG_GCN_SEQ  IN  (05037, 04963, 04964, 04966, 04967, 04968, 05032, 05033, 05034, 05039, 05040, 16033, 22230, 28090,
41848, 41849, 48698, 48699, 49871, 51197, 51198, 54687, 57879, 58890)
  AND  DSS.T_CA_ICN.DTE_FIRST_SVC  BETWEEN  '03-01-2006 00:00:00' AND '02-28-2007 00:00:00'
  AND  DSS.T_CA_ICN.DTE_PTN  BETWEEN  '03-01-2006 00:00:00' AND '05-31-2007 00:00:00'
  AND   trunc(months_between(DSS.T_CA_ICN.DTE_FIRST_SVC,DSS.T_RE_BASE_DN.DTE_BIRTH)/12)  !=  0
  AND  DSS.T_CA_ICN.CDE_DTL_STATUS  !=  'D'
  AND  DSS.T_CA_AID_GROUP.CDE_GROUP_D  NOT IN  ('D98', 'D99', 'D1 ', 'D2 ', 'D3 ', 'D4 ', 'D5 ', 'D6 ', 'D7 ', 'D8 ', 'D9 ')
  AND  DSS.T_CA_ICN.CDE_CLM_TYPE  IN  ('P', 'Q')
  )
GROUP BY
  DSS.T_CA_ICN.ID_MEDICAID,
   trunc(months_between(DSS.T_CA_ICN.DTE_FIRST_SVC,DSS.T_RE_BASE_DN.DTE_BIRTH)/12),
  DSS.T_CA_RECIP_KEY.CDE_RECIP_COUNTY || ' - ' || DSS.T_CA_RECIP_KEY.DSC_RECIP_COUNTY,
  DSS.T_CA_RECIP_KEY.CDE_RACE || ' - ' || DSS.T_CA_RECIP_KEY.DSC_RACE,
  DSS.T_CA_RECIP_KEY.CDE_SEX || ' - ' || DSS.T_CA_RECIP_KEY.DSC_SEX
HAVING
  (
  count(DISTINCT DSS.T_CA_ICN.NUM_ICN)  >=  2
  )
)
```

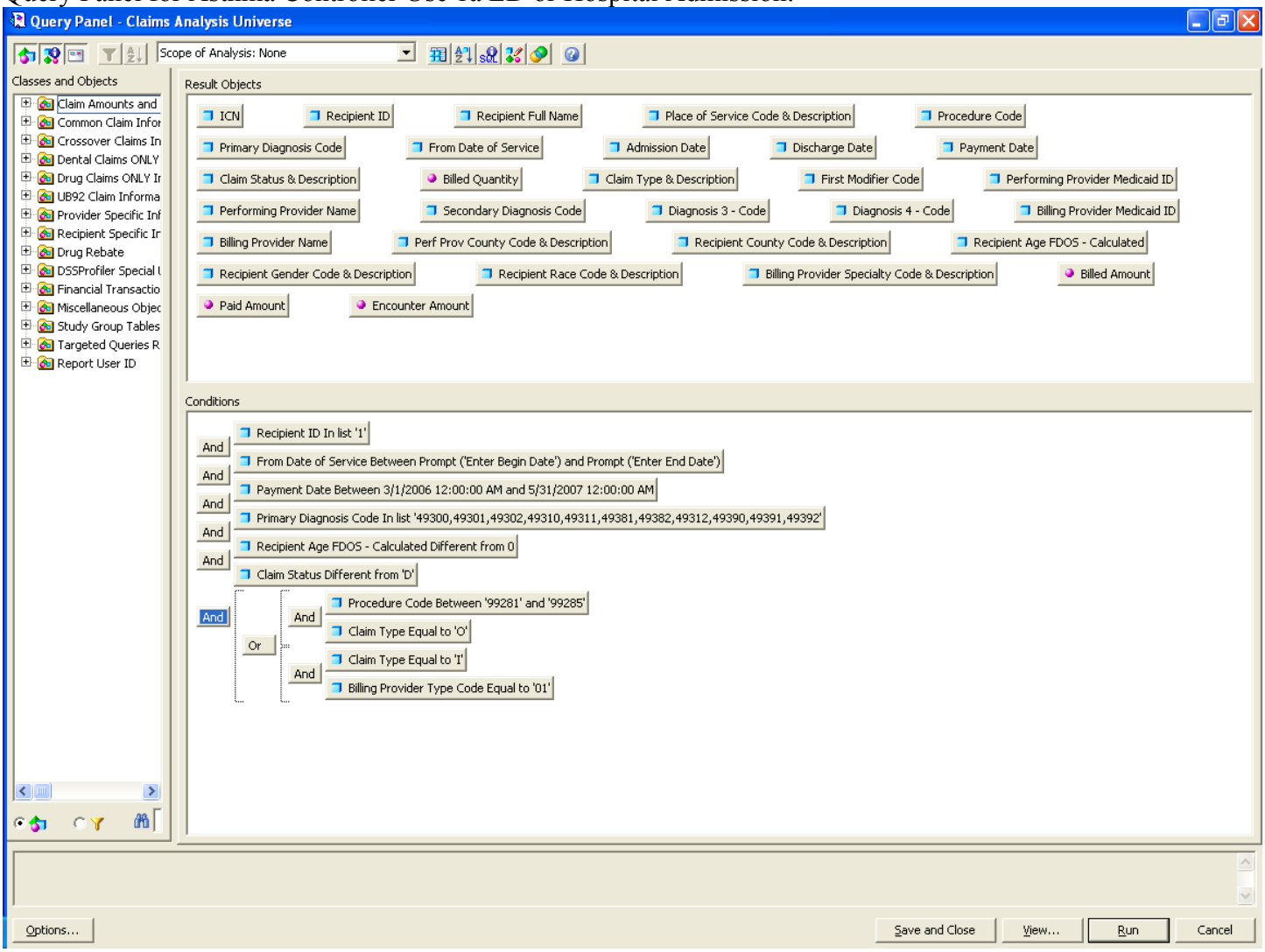
Make a table of the recipient IDs retrieved from Asthma Denominator query.

1. Asthma Controller Use

1a. Numerator is patients with an ED visit (procedure codes 99281-99285) or hospital admission (Claim Type I – Inpatient Claim and Provider Type = 01 - Hospital) **AND** fill < 1 prescription every three months for an inhaled steroid.). Input the table name into the query SQL.

Use table of denominator recipient IDs to pull all recipients that have received claims described above.

Query Panel for Asthma Controller Use 1a ED or Hospital Admission:



SQL for Asthma Controller Use 1a ED or Hospital Admission:

```
SELECT DISTINCT
  DSS.T_CA_ICN.NUM_ICN,
  DSS.T_CA_ICN.ID_MEDICAID,
  rtrim(DSS.T_RE_BASE_DN.NAM_LAST) || ', ' || rtrim(DSS.T_RE_BASE_DN.NAM_FIRST) || ' ' || DSS.T_RE_BASE_DN.NAM_MID_INIT,
  DSS.T_CA_CLAIM_KEY.CDE_POS || ' - ' || DSS.T_CA_CLAIM_KEY.DSC_POS,
  DSS.T_CA_ICN.CDE_PROC_PRIM,
  DSS.T_CA_ICN.CDE_DIAG_PRIM,
  DSS.T_CA_ICN.DTE_FIRST_SVC,
  DSS.T_CA_ICN.DTE_ADMISSION,
  DSS.T_CA_ICN.DTE_DISCHARGE,
  DSS.T_CA_ICN.DTE_PTN,
  DSS.T_CA_CLAIM_KEY.CDE_DTL_STATUS || ' - ' || DSS.T_CA_CLAIM_KEY.DSC_CLM_STATUS,
  DSS.T_CA_ICN.QTY_UNITS_BILLED,
  DSS.T_CA_CLAIM_KEY.CDE_CLM_TYPE || ' - ' || DSS.T_CA_CLAIM_KEY.DSC_CLM_TYPE,
  DSS.T_CA_ICN.CDE_MODIFIER_1,
  DSS_PERF_PROV_KEY.ID_PROVIDER_MCAID,
  DSS_PERF_PROV_KEY.NAM_PROVIDER,
  DSS.T_CA_ICN.CDE_DIAG_2,
  DSS.T_CA_ICN.CDE_DIAG_3,
  DSS.T_CA_ICN.CDE_DIAG_4,
  DSS.T_CA_PROV_KEY.ID_PROVIDER_MCAID,
  DSS.T_CA_PROV_KEY.NAM_PROVIDER,
  DSS_PERF_PROV_KEY.CDE_SVC_COUNTY || ' - ' || DSS_PERF_PROV_KEY.DSC_SVC_COUNTY,
  DSS.T_CA_RECIP_KEY.CDE_RECIP_COUNTY || ' - ' || DSS.T_CA_RECIP_KEY.DSC_RECIP_COUNTY,
   trunc(months_between(DSS.T_CA_ICN.DTE_FIRST_SVC,DSS.T_RE_BASE_DN.DTE_BIRTH)/12),
  DSS.T_CA_RECIP_KEY.CDE_SEX || ' - ' || DSS.T_CA_RECIP_KEY.DSC_SEX,
  DSS.T_CA_RECIP_KEY.CDE_RACE || ' - ' || DSS.T_CA_RECIP_KEY.DSC_RACE,
  DSS.T_CA_PROV_KEY.CDE_PROV_SPEC_PRIM || ' - ' || DSS.T_CA_PROV_KEY.DSC_PROV_SPEC,
  DSS.T_CA_ICN.AMT_BILLED,
  DSS.T_CA_ICN.AMT_PAID,
  DSS.T_CA_ICN.AMT_ENCOUNTER
FROM
  DSS.T_CA_ICN,
  DSS.T_RE_BASE_DN,
  DSS.T_CA_CLAIM_KEY,
  DSS.T_CA_PROV_KEY  DSS_PERF_PROV_KEY,
  DSS.T_CA_PROV_KEY,
  DSS.T_CA_RECIP_KEY,
NZNRVF.ASTHMA_DENOMINATOR
WHERE
 ( DSS.T_CA_CLAIM_KEY.CLAIM_KEY=DSS.T_CA_ICN.CLAIM_KEY  )
  AND  ( DSS.T_CA_PROV_KEY.PROV_KEY=DSS.T_CA_ICN.BILL_PROV_KEY  )
  AND  ( DSS.T_CA_ICN.PERF_PROV_KEY=DSS_PERF_PROV_KEY.PROV_KEY  )
  AND  ( DSS.T_CA_ICN.RECIP_KEY=DSS.T_CA_RECIP_KEY.RECIP_KEY  )
  AND  ( DSS.T_RE_BASE_DN.SAK_RECIP(+)=DSS.T_CA_ICN.SAK_RECIP  )
  AND  (
  DSS.T_CA_ICN.ID_MEDICAID  =NZNRVF.ASTHMA_DENOMINATOR.RECIP_IDS
  AND  DSS.T_CA_ICN.DTE_FIRST_SVC  BETWEEN  @variable('Enter Begin Date') AND @variable('Enter End Date')
  AND  DSS.T_CA_ICN.DTE_PTN  BETWEEN  '03-01-2006 00:00:00' AND '05-31-2007 00:00:00'
  AND  DSS.T_CA_ICN.CDE_DIAG_PRIM  IN  ('49300', '49301', '49302', '49310', '49311', '49381', '49382', '49312', '49390', '49391', '49392')
  AND   trunc(months_between(DSS.T_CA_ICN.DTE_FIRST_SVC,DSS.T_RE_BASE_DN.DTE_BIRTH)/12)  !=  0
  AND  DSS.T_CA_ICN.CDE_DTL_STATUS  !=  'D'
  AND  (DSS.T_CA_ICN.CDE_PROC_PRIM  BETWEEN  '99281' AND '99285'
  AND  DSS.T_CA_ICN.CDE_CLM_TYPE  =  'O'
  OR   DSS.T_CA_ICN.CDE_CLM_TYPE  =  'I'
  AND  DSS.T_CA_PROV_KEY.CDE_PROV_TYPE_PRIM  =  '01')
  )
```

Make a table of the recipient IDs returned from the ED and Hospital Query.

Use table of ED and Hospital recipient IDs to pull all recipients that have received pharmacy claims described above. The Generic Sequence Numbers (GSN) for inhaled steroids are 43366, 43367, 43368, 61344, 61345, 61343, 00213, 17184, 58672, 58671, 64010, 59326, 59327, 59328, 51649, 62914, 19317, 19318, 19319, 21251, 21483, 21253, 46525, 46526, 18165, 62241, 62240, 46698, 46699, 62726, and 62725

Query must be run for three consecutive month or quarterly intervals. The Paid Dates are the same as the measurement period.

Query Panel for Asthma Controller Use 1a

Query Panel - Claims Analysis Universe

Scope of Analysis: None

Classes and Objects

- Claim Amounts and
- Common Claim Info
- Crossover Claims Ir
- Dental Claims ONLY
- Drug Claims ONLY I
- UB92 Claim Informa
- Provider Specific In
- Recipient Specific Ir
- Drug Rebate
- DSSProfiler Special
- Financial Transactic
- Miscellaneous Obje
- Study Group Tables
- Targeted Queries R
- Report User ID

Result Objects

- Recipient ID

Conditions

- And
- Recipient ID In list '1'
- Recipient ID Not in list (query 1.1)

Query 1 | Subquery 1.1

Options... | Save and Close | View... | Run | Cancel

Query Panel - Claims Analysis Universe

Scope of Analysis: None

Classes and Objects

- Claim Amounts and
- Common Claim Info
- Crossover Claims Ir
- Dental Claims ONLY
- Drug Claims ONLY I
- UB92 Claim Informa
- Provider Specific In
- Recipient Specific Ir
- Drug Rebate
- DSSProfiler Special
- Financial Transactic
- Miscellaneous Obje
- Study Group Tables
- Targeted Queries R
- Report User ID

Result Objects

- Recipient ID

Conditions

- And
- Dispensed Date Between Prompt ('Enter Begin Dispense Date') and Prompt ('Enter End Dispense Date')
- And
- Payment Date Between Prompt ('Enter Begin Paid Date') and Prompt ('Enter End Paid Date')
- And
- Claim Type In list 'P,Q'
- And
- Claim Status Different from 'D'
- And
- GSN In list 43366,43367,43368,61344,61345,61343,00213,17184,58672,58671,64010,59326,59327,59328,51649,62914,19317,19318,19319,21251,21483,21253,46525,46526,18165,62

Query 1 | Subquery 1.1

This class contains all of the dollar amounts and pertinent counts related to claims, such as approved amount, billed amount, reimbursement amount, undup billing provider count, etc.

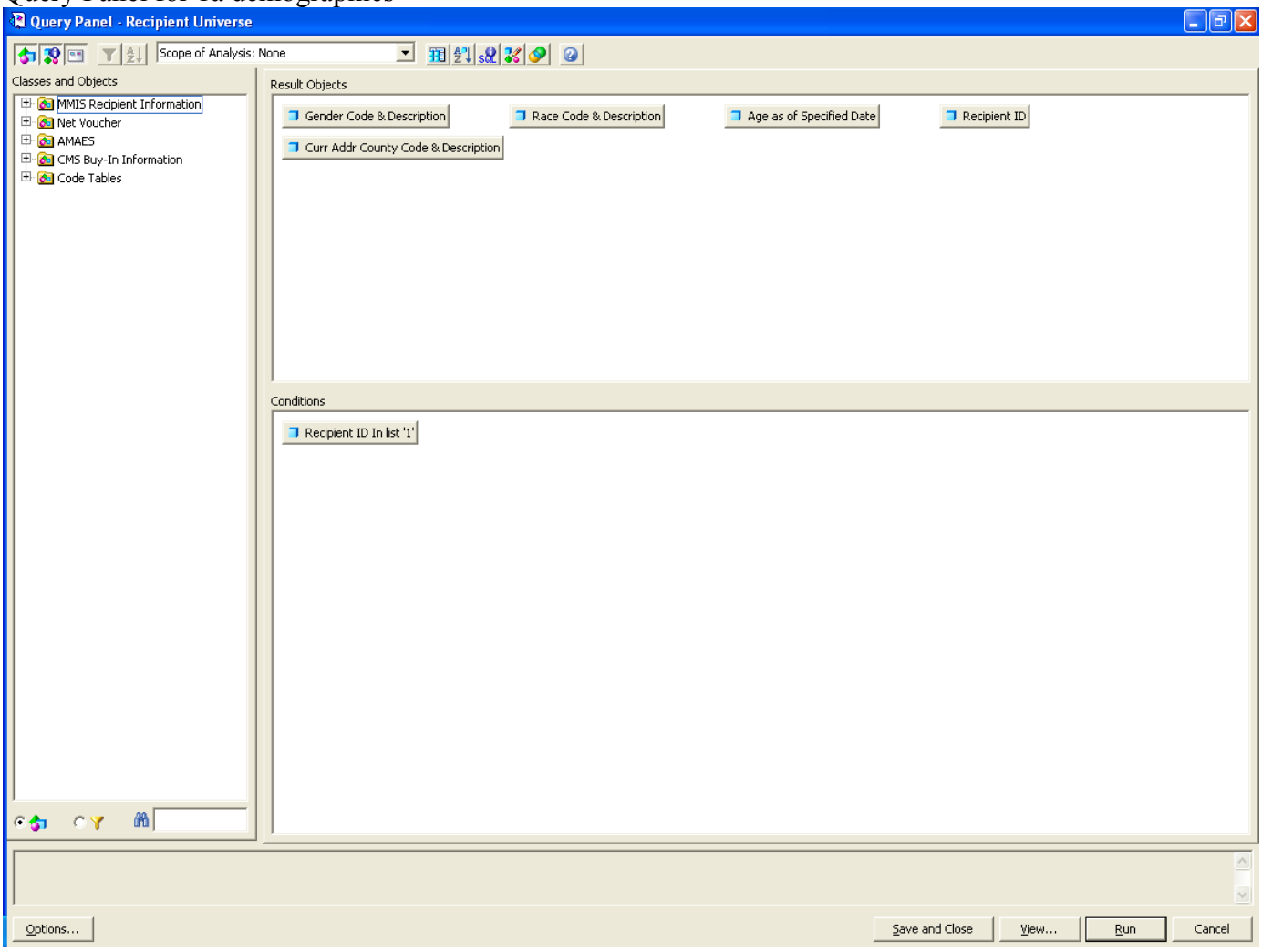
Options... | Save and Close | View... | Run | Cancel

SQL for Asthma Controller Use 1a:

```
SELECT
  DSS.T_CA_ICN.ID_MEDICAID
FROM
  DSS.T_CA_ICN
WHERE
  (
  EXISTS (SELECT IDS FROM NZNRVF.ASTHMA_ER_IP_VISITS WHERE NZNRVF.ASTHMA_ER_IP_VISITS.IDS =
DSS.T_CA_ICN.ID_MEDICAID)
  AND  DSS.T_CA_ICN.ID_MEDICAID  NOT IN  (SELECT
  DSS.T_CA_ICN.ID_MEDICAID
FROM
  DSS.T_CA_ICN,
  DSS.T_CA_DRUG
WHERE
  ( DSS.T_CA_DRUG.SAK_CLAIM(+)=DSS.T_CA_ICN.SAK_CLAIM and DSS.T_CA_DRUG.DTE_PTN(+)=DSS.T_CA_ICN.DTE_PTN  )
  AND  (
  DSS.T_CA_DRUG.DTE_DISPENSE  BETWEEN  @variable('Enter Begin Dispense Date') AND @variable('Enter End Dispense Date')
  AND  DSS.T_CA_ICN.DTE_PTN  BETWEEN  @variable('Enter Begin Paid Date') AND @variable('Enter End Paid Date')
  AND  DSS.T_CA_ICN.CDE_CLM_TYPE  IN  ('P', 'Q')
  AND  DSS.T_CA_ICN.CDE_DTL_STATUS  !=  'D'
  AND  DSS.T_CA_DRUG.NUM_DRUG_GCN_SEQ  IN  (43366, 43367, 43368, 61344, 61345, 61343, 00213, 17184, 58672, 58671, 64010, 59326, 59327,
59328, 51649, 62914, 19317, 19318, 19319, 21251, 21483, 21253, 46525, 46526, 18165, 62241, 62240, 46698, 46699, 62726, 62725)
  )
)
  )
```

Make a table of all recipient IDs returned for each quarter interval.

Query Panel for 1a demographics



SQL for 1a demographics

```
SELECT DISTINCT
  DSS.T_RE_BASE_DN.CDE_SEX || ' - ' || DSS.T_CDE_SEX.DSC_SEX,
  DSS.T_RE_BASE_DN.CDE_RACE || ' - ' || DSS.T_CDE_RACE.DSC_RACE,
  floor(months_between(@Prompt('Enter Date For Age Calculation (MM/DD/CCYY): ','d',,mono,),DSS.T_RE_BASE_DN.DTE_BIRTH)/12),
  DSS.T_RE_BASE_DN.ID_MEDICAID,
  DSS.T_RE_BASE_DN.CDE_COUNTY || ' - ' || DSS.T_COUNTY.DSC_COUNTY
FROM
  DSS.T_RE_BASE_DN,
  DSS.T_CDE_SEX,
  DSS.T_CDE_RACE,
  DSS.T_COUNTY,
NZNRVF.ASTHMA_CONTROLLER_USE_PART1A
WHERE
  ( DSS.T_COUNTY.CDE_COUNTY(+)=DSS.T_RE_BASE_DN.CDE_COUNTY )
  AND ( DSS.T_CDE_RACE.CDE_RACE(+)=DSS.T_RE_BASE_DN.CDE_RACE )
  AND ( DSS.T_RE_BASE_DN.CDE_SEX=DSS.T_CDE_SEX.CDE_SEX(+) )
  AND (
  DSS.T_RE_BASE_DN.ID_MEDICAID =NZNRVF.ASTHMA_CONTROLLER_USE_PART1A.IDS
  )
```

Enter the last day of the measurement period as the date for age calculation.

1b. Numerator is patients with > 2 short acting bronchodilator prescriptions during the measurement period **AND** fills < 1 prescription every three months for an inhaled steroid or fills < 2 prescriptions every three months for leukotriene modifiers or mast cell stabilizers.). Input the table name into the query SQL.

Use table of denominator recipient IDs to pull all recipients that have filled more than two short acting bronchodilator prescriptions during the measurement period and also filled either less than one inhaled steroid or less than two leukotriene modifiers or mast cell stabilizers.

The GSN for short acting bronchodilator drugs are 00110, 00111, 00114, 00115, 00122, 00123, 00130, 00132, 00133, 16033, 00169, 00170, 20990, 21194, 21608, 21609, 21610, 21700, 22230, 24136, 24535, 27036, 28090, 29123, 41848, 41849, 48018, 48478, 48603, 48698, 48699, 04963, 04964, 04966, 04967, 04968, 49871, 05025, 05026, 05032, 05033, 05034, 05037, 05039, 05040, 50527, 50578, 50714, 51197, 51198, 51811, 54007, 54687, 57879, 58890, 59081, 00076, 00077, 00090, 00091, 00093, and 00095.

The GSN for inhaled steroids are 17184, 18165, 19317, 19318, 19319, 21251, 21253, 00213, 21483, 43366, 43367, 43368, 46525, 46526, 46698, 46699, 51649, 58671, 58672, 59326, 59327, 59328, 61343, 61344, 61345, 62240, 62241, 62725, 62726, 62914, and 64010.

The GSN for leukotriene modifiers or mast cell stabilizers are 11686, 11688, 19343, 27962, 29803, 37003, 38451, 43557, 44803, 51512, and 63062.

The Paid Dates and Measurement Period dates should be the same. The Begin Date for Quarter and End Date for Quarter should be the three month or quarter begin and end dates.

Make a table of all recipient IDs returned for each quarter interval.

Query Screen for Asthma Controller Use 1b

Query Panel - Claims Analysis Universe

Scope of Analysis: None

Classes and Objects

- Sum of Amounts
- Counts
- Sum of Counts
- Common Claim Information
- Crossover Claims Information
- Dental Claims ONLY Information
- Drug Claims ONLY Information
- UB92 Claim Information
- Provider Specific Information
- Recipient Specific Information
- Drug Rebate
- DSSProfiler Special Use Information
- Financial Transaction Information
- Miscellaneous Objects
- Study Group Tables
- Targeted Queries Report Informatior
- Report User ID

Result Objects

- Recipient ID
- Recipient Full Name

Conditions

- And — Recipient ID In list '1'
- And — Claim Status Different from 'D'
- And — Claim Type In list 'Q,P'
- And — Dispensed Date Between Prompt ('Enter Begin Measurement Period') and Prompt ('Enter End Measurement Period')
- And — Payment Date Between Prompt ('Enter Beginning Paid Date') and Prompt ('Enter Ending Paid Date')
- And
  - Or
    - GSN In list 00110,00111,00114,00115,00122,00123,00130,00132,00133,16033,00169,00170,20990,21194,21608,21609,21610,21700,22230,24136
    - GSN In list 04963,04964,04966,04967,04968,49871,05025,05026,05032,05033,05034,05037,05039,05040,50527,50578,50714,51197,51198,51811
  - And
    - ICN Undup Count Greater than 2

Query 1 | Query 2

Options... | Save and Close | View... | Run | Cancel

Query Panel - Claims Analysis Universe

Scope of Analysis: None

Classes and Objects

- Claim Amounts and Counts
- Common Claim Information
- Crossover Claims Information
- Dental Claims ONLY Information
- Drug Claims ONLY Information
- UB92 Claim Information
- Provider Specific Information
- Recipient Specific Information
- Drug Rebate
- DSSProfiler Special Use Information
- Financial Transaction Information
- Miscellaneous Objects
- Study Group Tables
- Targeted Queries Report Informatic
- Report User ID

Result Objects

- Recipient ID
- Recipient Full Name

Conditions

- And — Recipient ID In list '1'
- And — Claim Status Different from 'D'
- And — Claim Type In list 'P,Q'
- And — Dispensed Date Between Prompt ('Enter Begin Date for Quarter') and Prompt ('Enter End Date for Quarter')
- And — Payment Date Between Prompt ('Enter Beginning Paid Date') and Prompt ('Enter Ending Paid Date')
- And
  - Or
    - And
      - GSN In list 43366,43367,43368,61344,61345,61343,00213,17184,58672,58671,64010,59326,59327,59328,51649,62914,19317,19318,19319,21251,2148
      - ICN Undup Count Greater than or equal to 1
    - And
      - GSN In list 43557,27962,11688,11686,38451,51512,44803,37003,19343,29803,63062
      - ICN Undup Count Greater than or equal to 2

Query 1 | Query 2

This class contains all of the dollar amounts and pertinent counts related to claims, such as approved amount, billed amount, reimbursement amount, undup billing provider count, etc.

Options... | Save and Close | View... | Run | Cancel

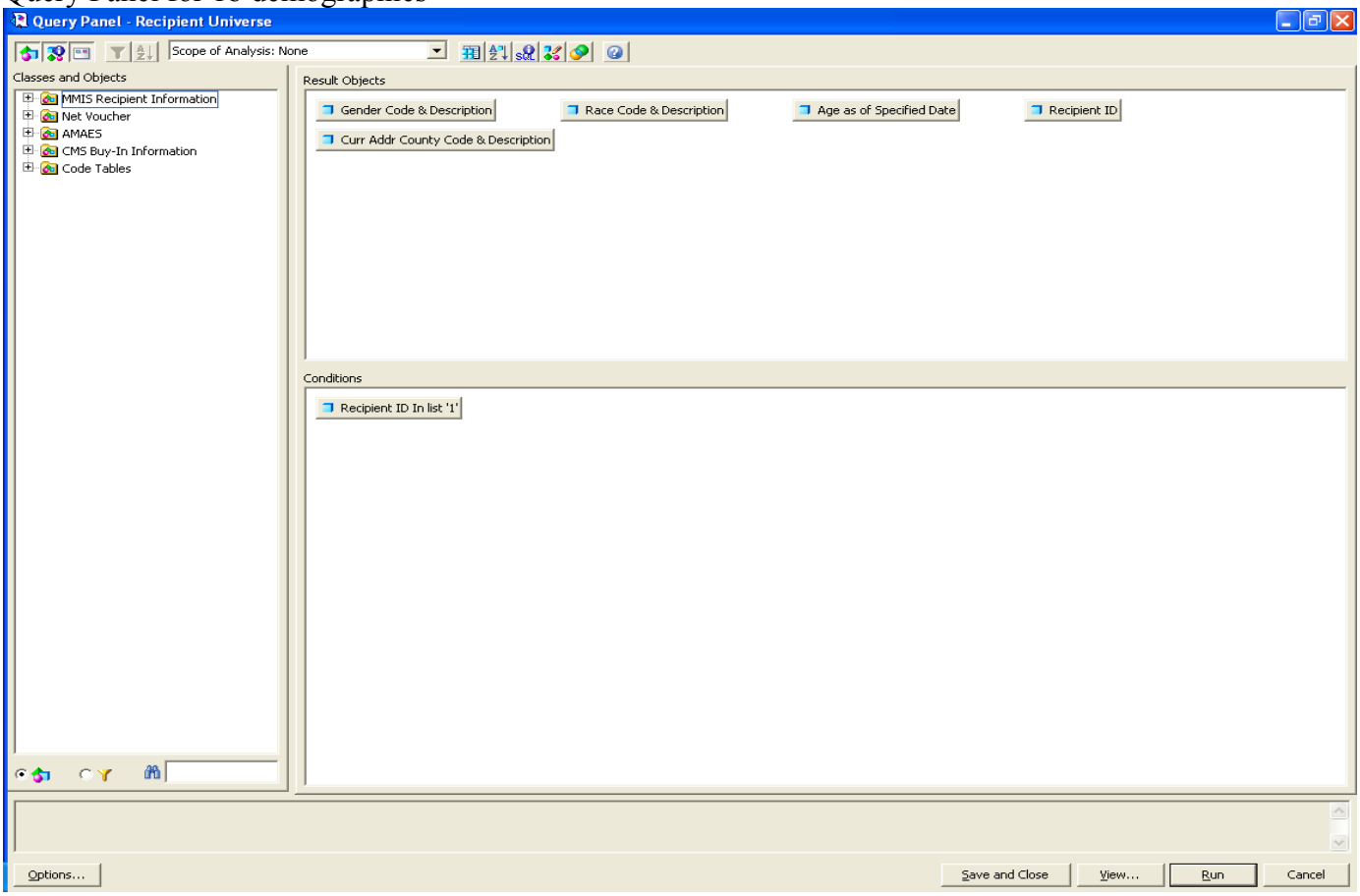
SQL for Asthma Controller Use 1b

```
(
SELECT DISTINCT
  DSS.T_CA_ICN.ID_MEDICAID,
  rtrim(DSS.T_RE_BASE_DN.NAM_LAST) || ', ' || rtrim(DSS.T_RE_BASE_DN.NAM_FIRST) || ' ' || DSS.T_RE_BASE_DN.NAM_MID_INIT
FROM
  DSS.T_CA_ICN,
  DSS.T_RE_BASE_DN,
  DSS.T_CA_DRUG,
NZNRVF.ASTHMA_DENOMINATOR
WHERE
  ( DSS.T_CA_DRUG.SAK_CLAIM(+)=DSS.T_CA_ICN.SAK_CLAIM and DSS.T_CA_DRUG.DTE_PTN(+)=DSS.T_CA_ICN.DTE_PTN  )
  AND  ( DSS.T_RE_BASE_DN.SAK_RECIP(+)=DSS.T_CA_ICN.SAK_RECIP  )
  AND  (
  DSS.T_CA_ICN.ID_MEDICAID  =NZNRVF.ASTHMA_DENOMINATOR.RECIP_IDS
  AND  DSS.T_CA_ICN.CDE_DTL_STATUS  !=  'D'
  AND  DSS.T_CA_ICN.CDE_CLM_TYPE  IN  ('Q', 'P')
  AND  DSS.T_CA_DRUG.DTE_DISPENSE  BETWEEN  @variable('Enter Begin Measurement Period') AND @variable('Enter End Measurement Period')
  AND  DSS.T_CA_ICN.DTE_PTN  BETWEEN  @variable('Enter Beginning Paid Date') AND @variable('Enter Ending Paid Date')
  AND  (DSS.T_CA_DRUG.NUM_DRUG_GCN_SEQ  IN  (00110, 00111, 00114, 00115, 00122, 00123, 00130, 00132, 00133, 16033, 00169, 00170, 20990,
21194, 21608, 21609, 21610, 21700, 22230, 24136, 24535, 27036, 28090, 29123, 41848, 41849, 48018, 48478, 48603, 48698, 48699)
  OR   DSS.T_CA_DRUG.NUM_DRUG_GCN_SEQ  IN  (04963, 04964, 04966, 04967, 04968, 49871, 05025, 05026, 05032, 05033, 05034, 05037, 05039,
05040, 50527, 50578, 50714, 51197, 51198, 51811, 54007, 54687, 57879, 58890, 59081, 00076, 00077, 00090, 00091, 00093, 00095))
  )
GROUP BY
  DSS.T_CA_ICN.ID_MEDICAID,
  rtrim(DSS.T_RE_BASE_DN.NAM_LAST) || ', ' || rtrim(DSS.T_RE_BASE_DN.NAM_FIRST) || ' ' || DSS.T_RE_BASE_DN.NAM_MID_INIT
HAVING
  (
  count(DISTINCT DSS.T_CA_ICN.NUM_ICN)  >  2
  )
MINUS
(
SELECT DISTINCT
  DSS.T_CA_ICN.ID_MEDICAID,
  rtrim(DSS.T_RE_BASE_DN.NAM_LAST) || ', ' || rtrim(DSS.T_RE_BASE_DN.NAM_FIRST) || ' ' || DSS.T_RE_BASE_DN.NAM_MID_INIT
FROM
  DSS.T_CA_ICN,
  DSS.T_RE_BASE_DN,
  DSS.T_CA_DRUG,
NZNRVF.ASTHMA_DENOMINATOR
WHERE
  ( DSS.T_CA_DRUG.SAK_CLAIM(+)=DSS.T_CA_ICN.SAK_CLAIM and DSS.T_CA_DRUG.DTE_PTN(+)=DSS.T_CA_ICN.DTE_PTN  )
  AND  ( DSS.T_RE_BASE_DN.SAK_RECIP(+)=DSS.T_CA_ICN.SAK_RECIP  )
  AND  (
  DSS.T_CA_ICN.ID_MEDICAID  =NZNRVF.ASTHMA_DENOMINATOR.RECIP_IDS
  AND  DSS.T_CA_ICN.CDE_DTL_STATUS  !=  'D'
  AND  DSS.T_CA_ICN.CDE_CLM_TYPE  IN  ('P', 'Q')
  AND  DSS.T_CA_DRUG.DTE_DISPENSE  BETWEEN  @variable('Enter Begin Date for Quarter') AND @variable('Enter End Date for Quarter')
  AND  DSS.T_CA_ICN.DTE_PTN  BETWEEN  @variable('Enter Beginning Paid Date') AND @variable('Enter Ending Paid Date')
  AND  DSS.T_CA_DRUG.NUM_DRUG_GCN_SEQ  IN  (43557, 27962, 11688, 11686, 38451, 51512, 44803, 37003, 19343, 29803, 63062)
  )
GROUP BY
  DSS.T_CA_ICN.ID_MEDICAID,
  rtrim(DSS.T_RE_BASE_DN.NAM_LAST) || ', ' || rtrim(DSS.T_RE_BASE_DN.NAM_FIRST) || ' ' || DSS.T_RE_BASE_DN.NAM_MID_INIT
HAVING
  (
  count(DISTINCT DSS.T_CA_ICN.NUM_ICN)  >=  2
  )
UNION
SELECT DISTINCT
  DSS.T_CA_ICN.ID_MEDICAID,
  rtrim(DSS.T_RE_BASE_DN.NAM_LAST) || ', ' || rtrim(DSS.T_RE_BASE_DN.NAM_FIRST) || ' ' || DSS.T_RE_BASE_DN.NAM_MID_INIT
FROM
  DSS.T_CA_ICN,
  DSS.T_RE_BASE_DN,
  DSS.T_CA_DRUG,
NZNRVF.ASTHMA_DENOMINATOR
WHERE
  ( DSS.T_CA_DRUG.SAK_CLAIM(+)=DSS.T_CA_ICN.SAK_CLAIM and DSS.T_CA_DRUG.DTE_PTN(+)=DSS.T_CA_ICN.DTE_PTN  )
  AND  ( DSS.T_RE_BASE_DN.SAK_RECIP(+)=DSS.T_CA_ICN.SAK_RECIP  )
  AND  (
  DSS.T_CA_ICN.ID_MEDICAID  =NZNRVF.ASTHMA_DENOMINATOR.RECIP_IDS
  AND  DSS.T_CA_ICN.CDE_DTL_STATUS  !=  'D'
  AND  DSS.T_CA_ICN.CDE_CLM_TYPE  IN  ('P', 'Q')
  AND  DSS.T_CA_DRUG.DTE_DISPENSE  BETWEEN  @variable('Enter Begin Date for Quarter') AND @variable('Enter End Date for Quarter')
  AND  DSS.T_CA_ICN.DTE_PTN  BETWEEN  @variable('Enter Beginning Paid Date') AND @variable('Enter Ending Paid Date')
```

```
  AND  DSS.T_CA_DRUG.NUM_DRUG_GCN_SEQ  IN  (43366, 43367, 43368, 61344, 61345, 61343, 00213, 17184, 58672, 58671, 64010, 59326, 59327,
59328, 51649, 62914, 19317, 19318, 19319, 21251, 21483, 21253, 46525, 46526, 18165, 62241, 62240, 46698, 46699, 62726, 62725)
  )
GROUP BY
  DSS.T_CA_ICN.ID_MEDICAID,
  rtrim(DSS.T_RE_BASE_DN.NAM_LAST) || ', ' || rtrim(DSS.T_RE_BASE_DN.NAM_FIRST) || ' ' || DSS.T_RE_BASE_DN.NAM_MID_INIT
HAVING
  (
  count(DISTINCT DSS.T_CA_ICN.NUM_ICN)  >=  1
  )
)
)
```

Run table of recipient IDs from 1b in order to get demographic information for recipients.

Query Panel for 1b demographics



SQL for 1b demographics

```
SELECT DISTINCT
  DSS.T_RE_BASE_DN.CDE_SEX || ' - ' || DSS.T_CDE_SEX.DSC_SEX,
  DSS.T_RE_BASE_DN.CDE_RACE || ' - ' || DSS.T_CDE_RACE.DSC_RACE,
  floor(months_between(@Prompt('Enter Date For Age Calculation (MM/DD/CCYY): ','d',,mono,),DSS.T_RE_BASE_DN.DTE_BIRTH)/12),
  DSS.T_RE_BASE_DN.ID_MEDICAID,
  DSS.T_RE_BASE_DN.CDE_COUNTY  || ' - ' || DSS.T_COUNTY.DSC_COUNTY
FROM
  DSS.T_RE_BASE_DN,
  DSS.T_CDE_SEX,
  DSS.T_CDE_RACE,
  DSS.T_COUNTY,
NZNRVF.ASTHMA_1B
WHERE
  ( DSS.T_COUNTY.CDE_COUNTY(+)=DSS.T_RE_BASE_DN.CDE_COUNTY  )
  AND  ( DSS.T_CDE_RACE.CDE_RACE(+)=DSS.T_RE_BASE_DN.CDE_RACE  )
  AND  ( DSS.T_RE_BASE_DN.CDE_SEX=DSS.T_CDE_SEX.CDE_SEX(+)  )
  AND  (
  DSS.T_RE_BASE_DN.ID_MEDICAID  =NZNRVF.ASTHMA_1B.RECIP_IDS
  )
```

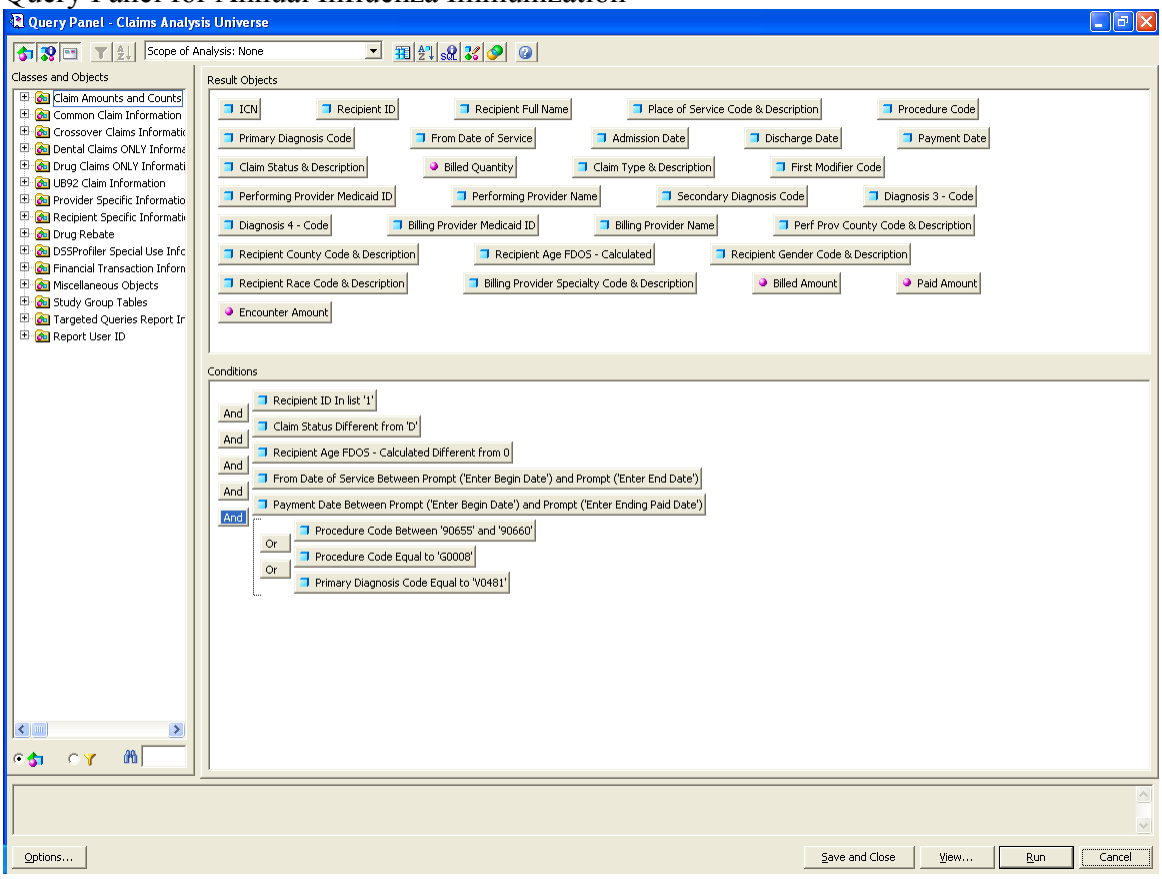
Enter the last day of the measurement period as the date for age calculation.

2. Annual Influenza Immunization

Numerator is patients with influenza vaccination **CPT 90655 - 90660 or V04.81 or G0008** during the measurement period.). Input the table name into the query SQL.

Use table of denominator recipient IDs to pull all recipients that have received claims described above.

Query Panel for Annual Influenza Immunization



SQL for Annual Influenza Immunization

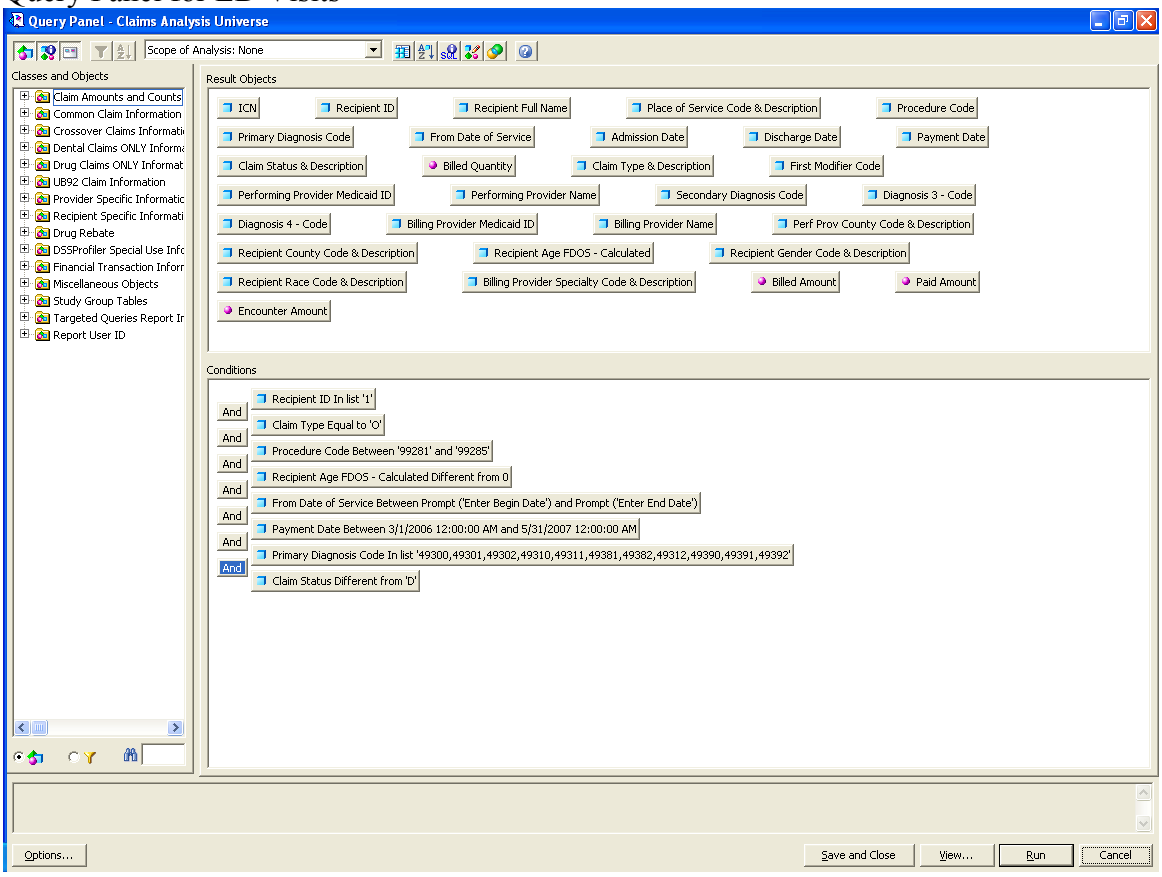
```
SELECT DISTINCT
  DSS.T_CA_ICN.NUM_ICN,
  DSS.T_CA_ICN.ID_MEDICAID,
  rtrim(DSS.T_RE_BASE_DN.NAM_LAST) || ', ' || rtrim(DSS.T_RE_BASE_DN.NAM_FIRST) || ' ' || DSS.T_RE_BASE_DN.NAM_MID_INIT,
  DSS.T_CA_CLAIM_KEY.CDE_POS || ' - ' || DSS.T_CA_CLAIM_KEY.DSC_POS,
  DSS.T_CA_ICN.CDE_PROC_PRIM,
  DSS.T_CA_ICN.CDE_DIAG_PRIM,
  DSS.T_CA_ICN.DTE_FIRST_SVC,
  DSS.T_CA_ICN.DTE_ADMISSION,
  DSS.T_CA_ICN.DTE_DISCHARGE,
  DSS.T_CA_ICN.DTE_PTN,
  DSS.T_CA_CLAIM_KEY.CDE_DTL_STATUS || ' - ' || DSS.T_CA_CLAIM_KEY.DSC_CLM_STATUS,
  DSS.T_CA_ICN.QTY_UNITS_BILLED,
  DSS.T_CA_CLAIM_KEY.CDE_CLM_TYPE || ' - ' || DSS.T_CA_CLAIM_KEY.DSC_CLM_TYPE,
  DSS.T_CA_ICN.CDE_MODIFIER_1,
  DSS_PERF_PROV_KEY.ID_PROVIDER_MCAID,
  DSS_PERF_PROV_KEY.NAM_PROVIDER,
  DSS.T_CA_ICN.CDE_DIAG_2,
  DSS.T_CA_ICN.CDE_DIAG_3,
  DSS.T_CA_ICN.CDE_DIAG_4,
  DSS.T_CA_PROV_KEY.ID_PROVIDER_MCAID,
  DSS.T_CA_PROV_KEY.NAM_PROVIDER,
  DSS_PERF_PROV_KEY.CDE_SVC_COUNTY || ' - ' || DSS_PERF_PROV_KEY.DSC_SVC_COUNTY,
  DSS.T_CA_RECIP_KEY.CDE_RECIP_COUNTY || ' - ' || DSS.T_CA_RECIP_KEY.DSC_RECIP_COUNTY,
   trunc(months_between(DSS.T_CA_ICN.DTE_FIRST_SVC,DSS.T_RE_BASE_DN.DTE_BIRTH)/12),
  DSS.T_CA_RECIP_KEY.CDE_SEX || ' - ' || DSS.T_CA_RECIP_KEY.DSC_SEX,
  DSS.T_CA_RECIP_KEY.CDE_RACE || ' - ' || DSS.T_CA_RECIP_KEY.DSC_RACE,
  DSS.T_CA_PROV_KEY.CDE_PROV_SPEC_PRIM || ' - ' || DSS.T_CA_PROV_KEY.DSC_PROV_SPEC,
  DSS.T_CA_ICN.AMT_BILLED,
  DSS.T_CA_ICN.AMT_PAID,
  DSS.T_CA_ICN.AMT_ENCOUNTER
FROM
  DSS.T_CA_ICN,
  DSS.T_RE_BASE_DN,
  DSS.T_CA_CLAIM_KEY,
  DSS.T_CA_PROV_KEY  DSS_PERF_PROV_KEY,
  DSS.T_CA_PROV_KEY,
  DSS.T_CA_RECIP_KEY,
NZNRVF.ASTHMA_DENOMINATOR
WHERE
  ( DSS.T_CA_CLAIM_KEY.CLAIM_KEY=DSS.T_CA_ICN.CLAIM_KEY  )
  AND  ( DSS.T_CA_PROV_KEY.PROV_KEY=DSS.T_CA_ICN.BILL_PROV_KEY  )
  AND  ( DSS.T_CA_ICN.PERF_PROV_KEY=DSS_PERF_PROV_KEY.PROV_KEY  )
  AND  ( DSS.T_CA_ICN.RECIP_KEY=DSS.T_CA_RECIP_KEY.RECIP_KEY  )
  AND  ( DSS.T_RE_BASE_DN.SAK_RECIP(+)=DSS.T_CA_ICN.SAK_RECIP  )
  AND  (
  DSS.T_CA_ICN.ID_MEDICAID  =NZNRVF.ASTHMA_DENOMINATOR.RECIP_IDS
  AND  DSS.T_CA_ICN.CDE_DTL_STATUS  !=  'D'
  AND   trunc(months_between(DSS.T_CA_ICN.DTE_FIRST_SVC,DSS.T_RE_BASE_DN.DTE_BIRTH)/12)  !=  0
  AND  DSS.T_CA_ICN.DTE_FIRST_SVC  BETWEEN  @variable('Enter Begin Date') AND @variable('Enter End Date')
  AND  DSS.T_CA_ICN.DTE_PTN  BETWEEN  @variable('Enter Begin Date') AND @variable('Enter Ending Paid Date')
  AND  (DSS.T_CA_ICN.CDE_PROC_PRIM  BETWEEN  '90655' AND '90660'
  OR   DSS.T_CA_ICN.CDE_PROC_PRIM  =  'G0008'
  OR   DSS.T_CA_ICN.CDE_DIAG_PRIM  =  'V0481')
  )
```

3. Emergency Department Visits

Numerator is patients with ≥ 1 asthma related ED visits as identified via ED visit codes (procedure codes 99281-99285) **AND** also has an asthma diagnosis code ICD-9-CM codes 493.00, 493.01, 493.02, 493.10, 493.11, 493.12, 493.81, 493.82, 493.90, 493.91, and 493.92 as the primary diagnosis on the emergency room claim during the measurement period.). Input the table name into the query SQL.

Use table of denominator recipient IDs to pull all recipients that have received claims described above.

Query Panel for ED Visits



SQL for ED visits

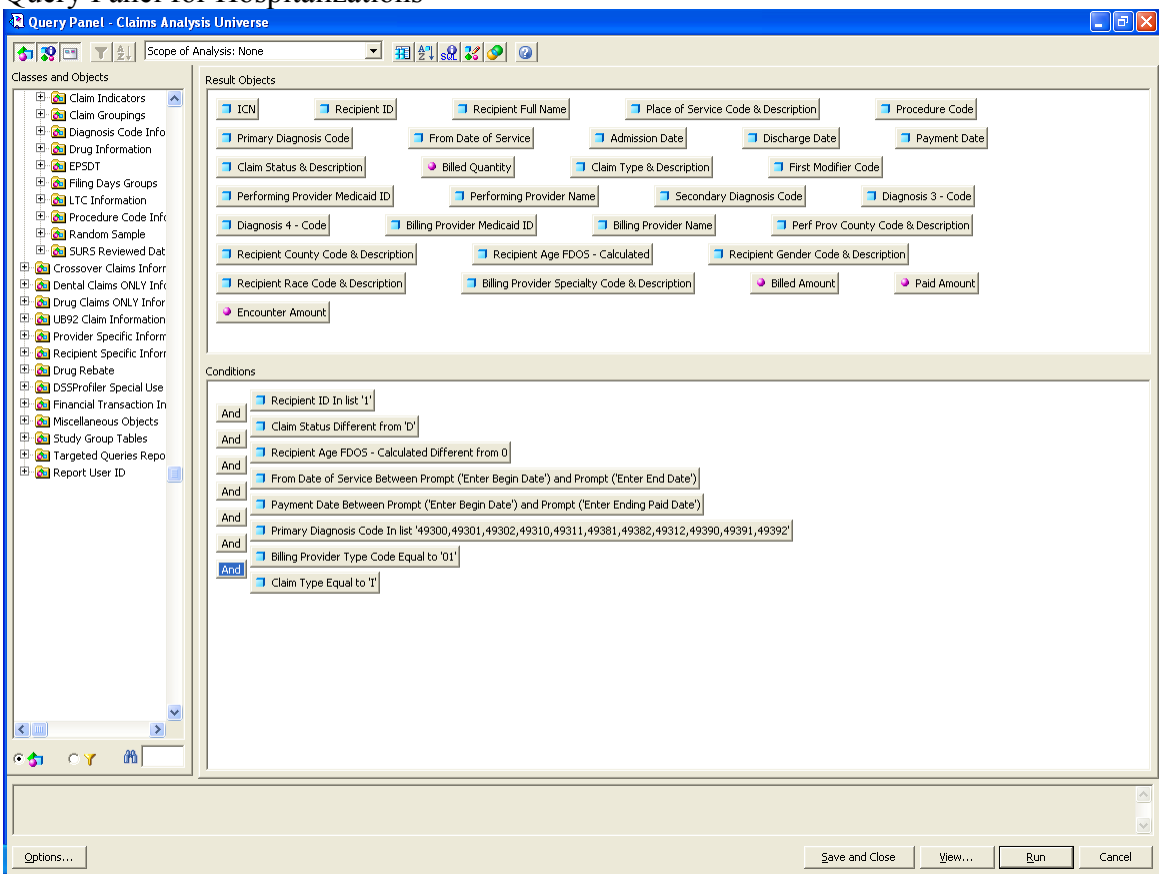
```
SELECT DISTINCT
  DSS.T_CA_ICN.NUM_ICN,
  DSS.T_CA_ICN.ID_MEDICAID,
  rtrim(DSS.T_RE_BASE_DN.NAM_LAST) || ', ' || rtrim(DSS.T_RE_BASE_DN.NAM_FIRST) || ' ' || DSS.T_RE_BASE_DN.NAM_MID_INIT,
  DSS.T_CA_CLAIM_KEY.CDE_POS || ' - ' || DSS.T_CA_CLAIM_KEY.DSC_POS,
  DSS.T_CA_ICN.CDE_PROC_PRIM,
  DSS.T_CA_ICN.CDE_DIAG_PRIM,
  DSS.T_CA_ICN.DTE_FIRST_SVC,
  DSS.T_CA_ICN.DTE_ADMISSION,
  DSS.T_CA_ICN.DTE_DISCHARGE,
  DSS.T_CA_ICN.DTE_PTN,
  DSS.T_CA_CLAIM_KEY.CDE_DTL_STATUS || ' - ' || DSS.T_CA_CLAIM_KEY.DSC_CLM_STATUS,
  DSS.T_CA_ICN.QTY_UNITS_BILLED,
  DSS.T_CA_CLAIM_KEY.CDE_CLM_TYPE || ' - ' || DSS.T_CA_CLAIM_KEY.DSC_CLM_TYPE,
  DSS.T_CA_ICN.CDE_MODIFIER_1,
  DSS_PERF_PROV_KEY.ID_PROVIDER_MCAID,
  DSS_PERF_PROV_KEY.NAM_PROVIDER,
  DSS.T_CA_ICN.CDE_DIAG_2,
  DSS.T_CA_ICN.CDE_DIAG_3,
  DSS.T_CA_ICN.CDE_DIAG_4,
  DSS.T_CA_PROV_KEY.ID_PROVIDER_MCAID,
  DSS.T_CA_PROV_KEY.NAM_PROVIDER,
  DSS_PERF_PROV_KEY.CDE_SVC_COUNTY || ' - ' || DSS_PERF_PROV_KEY.DSC_SVC_COUNTY,
  DSS.T_CA_RECIP_KEY.CDE_RECIP_COUNTY || ' - ' || DSS.T_CA_RECIP_KEY.DSC_RECIP_COUNTY,
   trunc(months_between(DSS.T_CA_ICN.DTE_FIRST_SVC,DSS.T_RE_BASE_DN.DTE_BIRTH)/12),
  DSS.T_CA_RECIP_KEY.CDE_SEX || ' - ' || DSS.T_CA_RECIP_KEY.DSC_SEX,
  DSS.T_CA_RECIP_KEY.CDE_RACE || ' - ' || DSS.T_CA_RECIP_KEY.DSC_RACE,
  DSS.T_CA_PROV_KEY.CDE_PROV_SPEC_PRIM || ' - ' || DSS.T_CA_PROV_KEY.DSC_PROV_SPEC,
  DSS.T_CA_ICN.AMT_BILLED,
  DSS.T_CA_ICN.AMT_PAID,
  DSS.T_CA_ICN.AMT_ENCOUNTER
FROM
  DSS.T_CA_ICN,
  DSS.T_RE_BASE_DN,
  DSS.T_CA_CLAIM_KEY,
  DSS.T_CA_PROV_KEY  DSS_PERF_PROV_KEY,
  DSS.T_CA_PROV_KEY,
  DSS.T_CA_RECIP_KEY,
NZNRVF.ASTHMA_DENOMINATOR
WHERE
  ( DSS.T_CA_CLAIM_KEY.CLAIM_KEY=DSS.T_CA_ICN.CLAIM_KEY  )
  AND  ( DSS.T_CA_PROV_KEY.PROV_KEY=DSS.T_CA_ICN.BILL_PROV_KEY  )
  AND  ( DSS.T_CA_ICN.PERF_PROV_KEY=DSS_PERF_PROV_KEY.PROV_KEY  )
  AND  ( DSS.T_CA_ICN.RECIP_KEY=DSS.T_CA_RECIP_KEY.RECIP_KEY  )
  AND  ( DSS.T_RE_BASE_DN.SAK_RECIP(+)=DSS.T_CA_ICN.SAK_RECIP  )
  AND  (
  DSS.T_CA_ICN.ID_MEDICAID  =NZNRVF.ASTHMA_DENOMINATOR.RECIP_IDS
  AND  DSS.T_CA_ICN.CDE_CLM_TYPE  =  'O'
  AND  DSS.T_CA_ICN.CDE_PROC_PRIM  BETWEEN  '99281' AND '99285'
  AND   trunc(months_between(DSS.T_CA_ICN.DTE_FIRST_SVC,DSS.T_RE_BASE_DN.DTE_BIRTH)/12)  !=  0
  AND  DSS.T_CA_ICN.DTE_FIRST_SVC  BETWEEN  @variable('Enter Begin Date') AND @variable('Enter End Date')
  AND  DSS.T_CA_ICN.DTE_PTN  BETWEEN  '03-01-2006 00:00:00' AND '05-31-2007 00:00:00'
  AND  DSS.T_CA_ICN.CDE_DIAG_PRIM  IN  ('49300', '49301', '49302', '49310', '49311', '49381', '49382', '49312', '49390', '49391', '49392')
  AND  DSS.T_CA_ICN.CDE_DTL_STATUS  !=  'D'
  )
```

4. Hospitalization

Numerator is patients with ≥ 1 inpatient hospital admissions (Claim Type I – Inpatient Claim and Provider Type = 01 - Hospital) **AND** also has an asthma diagnosis code ICD-9-CM codes 493.00, 493.01, 493.02, 493.10, 493.11, 493.12, 493.81, 493.82, 493.90, 493.91, and 493.92 as the primary diagnosis on the inpatient hospital claim during the measurement period.). Input the table name into the query SQL.

Use table of denominator recipient IDs to pull all recipients that have received claims described above.

Query Panel for Hospitalizations



SQL for Hospitalizations

```
SELECT DISTINCT
  DSS.T_CA_ICN.NUM_ICN,
  DSS.T_CA_ICN.ID_MEDICAID,
  rtrim(DSS.T_RE_BASE_DN.NAM_LAST) || ', ' || rtrim(DSS.T_RE_BASE_DN.NAM_FIRST) || ' ' || DSS.T_RE_BASE_DN.NAM_MID_INIT,
  DSS.T_CA_CLAIM_KEY.CDE_POS || ' - ' || DSS.T_CA_CLAIM_KEY.DSC_POS,
  DSS.T_CA_ICN.CDE_PROC_PRIM,
  DSS.T_CA_ICN.CDE_DIAG_PRIM,
  DSS.T_CA_ICN.DTE_FIRST_SVC,
  DSS.T_CA_ICN.DTE_ADMISSION,
  DSS.T_CA_ICN.DTE_DISCHARGE,
  DSS.T_CA_ICN.DTE_PTN,
  DSS.T_CA_CLAIM_KEY.CDE_DTL_STATUS || ' - ' || DSS.T_CA_CLAIM_KEY.DSC_CLM_STATUS,
  DSS.T_CA_ICN.QTY_UNITS_BILLED,
  DSS.T_CA_CLAIM_KEY.CDE_CLM_TYPE || ' - ' || DSS.T_CA_CLAIM_KEY.DSC_CLM_TYPE,
  DSS.T_CA_ICN.CDE_MODIFIER_1,
  DSS_PERF_PROV_KEY.ID_PROVIDER_MCAID,
  DSS_PERF_PROV_KEY.NAM_PROVIDER,
  DSS.T_CA_ICN.CDE_DIAG_2,
  DSS.T_CA_ICN.CDE_DIAG_3,
  DSS.T_CA_ICN.CDE_DIAG_4,
  DSS.T_CA_PROV_KEY.ID_PROVIDER_MCAID,
  DSS.T_CA_PROV_KEY.NAM_PROVIDER,
  DSS_PERF_PROV_KEY.CDE_SVC_COUNTY || ' - ' || DSS_PERF_PROV_KEY.DSC_SVC_COUNTY,
  DSS.T_CA_RECIP_KEY.CDE_RECIP_COUNTY || ' - ' || DSS.T_CA_RECIP_KEY.DSC_RECIP_COUNTY,
   trunc(months_between(DSS.T_CA_ICN.DTE_FIRST_SVC,DSS.T_RE_BASE_DN.DTE_BIRTH)/12),
  DSS.T_CA_RECIP_KEY.CDE_SEX || ' - ' || DSS.T_CA_RECIP_KEY.DSC_SEX,
  DSS.T_CA_RECIP_KEY.CDE_RACE || ' - ' || DSS.T_CA_RECIP_KEY.DSC_RACE,
  DSS.T_CA_PROV_KEY.CDE_PROV_SPEC_PRIM || ' - ' || DSS.T_CA_PROV_KEY.DSC_PROV_SPEC,
  DSS.T_CA_ICN.AMT_BILLED,
  DSS.T_CA_ICN.AMT_PAID,
  DSS.T_CA_ICN.AMT_ENCOUNTER
FROM
  DSS.T_CA_ICN,
  DSS.T_RE_BASE_DN,
  DSS.T_CA_CLAIM_KEY,
  DSS.T_CA_PROV_KEY  DSS_PERF_PROV_KEY,
  DSS.T_CA_PROV_KEY,
  DSS.T_CA_RECIP_KEY,
NZNRVF.ASTHMA_DENOMINATOR
WHERE
  ( DSS.T_CA_CLAIM_KEY.CLAIM_KEY=DSS.T_CA_ICN.CLAIM_KEY  )
  AND  ( DSS.T_CA_PROV_KEY.PROV_KEY=DSS.T_CA_ICN.BILL_PROV_KEY  )
  AND  ( DSS.T_CA_ICN.PERF_PROV_KEY=DSS_PERF_PROV_KEY.PROV_KEY  )
  AND  ( DSS.T_CA_ICN.RECIP_KEY=DSS.T_CA_RECIP_KEY.RECIP_KEY  )
  AND  ( DSS.T_RE_BASE_DN.SAK_RECIP(+)=DSS.T_CA_ICN.SAK_RECIP  )
  AND  (
  DSS.T_CA_ICN.ID_MEDICAID  =NZNRVF.ASTHMA_DENOMINATOR.RECIP_IDS
  AND  DSS.T_CA_ICN.CDE_DTL_STATUS  !=  'D'
  AND   trunc(months_between(DSS.T_CA_ICN.DTE_FIRST_SVC,DSS.T_RE_BASE_DN.DTE_BIRTH)/12)  !=  0
  AND  DSS.T_CA_ICN.DTE_FIRST_SVC  BETWEEN  @variable('Enter Begin Date') AND @variable('Enter End Date')
  AND  DSS.T_CA_ICN.DTE_PTN  BETWEEN  @variable('Enter Begin Date') AND @variable('Enter Ending Paid Date')
  AND  DSS.T_CA_ICN.CDE_DIAG_PRIM  IN  ('49300', '49301', '49302', '49310', '49311', '49381', '49382', '49312', '49390', '49391', '49392')
  AND  DSS.T_CA_PROV_KEY.CDE_PROV_TYPE_PRIM  =  '01'
  AND  DSS.T_CA_ICN.CDE_CLM_TYPE  =  'I'
  )
```