More Hints on SQLite

Ted Laderas

August 17, 2016

Here are some more hints about SQLite/R to get you through the in-class assignments.

Difference between dates

You can find the difference between two dates by using the julianday() function in SQLite.

```
library(RSQLite)
```

```
## Loading required package: DBI
```

```
con <- dbConnect(SQLite(),dbname="patient.sqlite")
sqlStatement <- "select peh.*, julianday('2015-01-01') - julianday(peh.Admit_date)
    as TimeFromNewYear FROM
    patient_encounter_hosp as peh"

queryResult <- dbGetQuery(con, sqlStatement)
queryResult[1:10,]</pre>
```

```
##
      patientid Event_ID encounter_type
                                                   outcome Admit_date
## 1
                                                       SNF 2014-01-01
              1
                      108
## 2
              1
                      109
                                       22
                                                       SNF 2014-01-13
## 3
              2
                                       22 Discharged Home 2014-01-01
                     1333
## 4
              3
                       71
                                       22
                                                       SNF 2014-01-01
## 5
              4
                      886
                                       22 Discharged Home 2014-01-01
## 6
              5
                       73
                                       22 Discharged Home 2014-01-01
              5
## 7
                       74
                                       22 Discharged Home 2014-01-16
## 8
              6
                       98
                                       22
                                                       SNF 2014-01-01
## 9
              6
                       99
                                       22
                                                       SNF 2014-01-19
## 10
              7
                      893
                                       22
                                                    Rehab 2014-01-01
                        Admit_source TimeFromNewYear
##
      Discharge_date
## 1
          2014-01-08 Emergency Room
                                                   365
## 2
          2014-01-20
                            Transfer
                                                   353
                                                   365
## 3
          2014-01-13
                              Clinic
          2014-01-07
                            Transfer
                                                   365
                                                   365
          2014-01-07 Emergency Room
## 5
## 6
          2014-01-08 Emergency Room
                                                   365
## 7
                                                   350
          2014-01-25 Emergency Room
## 8
          2014-01-08 Emergency Room
                                                   365
## 9
          2014-02-01
                            Transfer
                                                   347
## 10
          2014-01-16 Emergency Room
                                                   365
```

Recoding Values

Remember, you can recode values using the case statement, and you're not just limited to one WHEN statement!

```
sqlStatement <- "select pe.patientID, pe.reason, CASE
   WHEN reason = 3 THEN 1
   WHEN reason = 5 THEN 2
   WHEN reason = 10 THEN 3
   ELSE 0 END as recoded_reason
   FROM
   patient_encounter as pe"

queryResult <- dbGetQuery(con, sqlStatement)

#show those rows that have reason = 3 (and should have recoded_reason = 1)
reason3 <- queryResult[queryResult$reason == 3,]
reason3[1:10,]</pre>
```

```
##
       patientID reason recoded reason
## 57
                2
                       3
## 71
                2
                       3
                2
                       3
## 75
                                        1
## 416
               19
                       3
                                        1
               25
                       3
## 454
                                        1
## 479
               27
                       3
                                        1
## 589
               33
                       3
                                        1
## 847
               53
                       3
                                        1
## 896
               57
                       3
                                        1
## 932
               60
                       3
                                        1
```

```
reason5 <- queryResult[queryResult$reason == 5,]
reason5[1:10,]</pre>
```

```
patientID reason recoded_reason
##
## 128
                7
                        5
                                        2
## 225
                        5
                                        2
                10
                        5
                                        2
## 424
               21
                                        2
## 436
               21
                        5
## 440
               22
                        5
                                        2
                                        2
## 814
               51
                        5
## 1031
               64
                        5
                                        2
## 1309
               82
                        5
                                        2
## 1621
              101
                        5
                                        2
## 1702
              104
                                        2
```

Subqueries

Subqueries can be a useful way to break up a query when it makes sense to do a query in multiple steps. We can wrap any query in () (parentheses), and do queries on the returned table.

For example, we can do a join, and then select columns from that join. Note that unless we name the subquery using an alias, we do not use an alias to refer to the columns in the subquery.

```
##
     patientID Actual date
                                   encounterName
## 1
              1 2013-10-15 MD/PROV Office Visit
## 2
                2013-12-01 MD/PROV Office Visit
## 3
                2013-05-01 MD/PROV Office Visit
                 2013-09-04 MD/PROV Office Visit
## 4
## 5
                2013-11-23 MD/PROV Office Visit
                2013-06-11 MD/PROV Office Visit
## 6
## 7
              1
                2013-09-02 MD/PROV Office Visit
## 8
              1
                2013-10-31 MD/PROV Office Visit
## 9
              1 2013-12-08 MD/PROV Office Visit
## 10
                2013-02-02 MD/PROV Office Visit
              1
## 11
                2013-08-14 MD/PROV Office Visit
## 12
                2013-05-04 MD/PROV Office Visit
## 13
              1 2013-11-19 MD/PROV Office Visit
## 14
              1 2013-12-06 MD/PROV Office Visit
## 15
                2013-11-05 MD/PROV Office Visit
              1 2013-08-11 MD/PROV Office Visit
## 16
              1 2013-01-03 MD/PROV Office Visit
## 17
              1 2013-11-07
## 18
                                  Emergency Room
## 19
              2 2013-02-11 MD/PROV Office Visit
              2 2013-11-04 MD/PROV Office Visit
## 20
              2 2013-05-06 MD/PROV Office Visit
## 21
              2 2013-06-16 MD/PROV Office Visit
## 22
              2 2013-01-22 MD/PROV Office Visit
## 23
              2 2013-01-20 MD/PROV Office Visit
## 24
## 25
              2 2013-08-03 MD/PROV Office Visit
## 26
              2 2013-12-05 MD/PROV Office Visit
## 27
              2 2013-03-09 MD/PROV Office Visit
## 28
              2 2013-11-13 MD/PROV Office Visit
## 29
              2 2013-04-04 MD/PROV Office Visit
              2 2013-11-27 MD/PROV Office Visit
## 30
```

GROUP BY

Oftentimes, we need to calculate something by a patient id. For example, we might want to calculate the number of visits for each patient. A GROUP BY statement needs a function to aggregate those values, such as COUNT, SUM, or MEAN.

queryResult[1:20,]

```
##
      patientID numVisits
## 1
                1
                2
## 2
                          64
## 3
                3
                          29
## 4
                4
                           6
## 5
                5
                           5
                6
## 6
                           5
                7
## 7
                          16
                8
                          32
## 8
                9
                          21
## 9
               10
                          34
## 10
## 11
              11
                          18
## 12
              12
                           4
## 13
              13
                          30
## 14
              14
                           4
## 15
              15
                          41
## 16
              16
                          25
## 17
              17
                          46
## 18
              18
                           6
## 19
               19
                          15
## 20
              20
                           1
```

Note that GROUP BY can be combined with a subquery, which can be very useful (this is a hint).

Finding a Set of Values in a Table

A fast way of finding entries in a table that satisfy a set of values is to do a join on the table with a temporary table that has the values that you're interested in.

```
## [1] TRUE
```

```
## [1] TRUE
```

#to save this table)

dbWriteTable(con, name="outcomeTable", value=outcomeTable)

```
##
      patientid Event_ID encounter_type outcome Admit_date Discharge_date
## 1
               1
                      108
                                       22
                                               SNF 2014-01-01
                                                                   2014-01-08
                                               SNF 2014-01-13
## 2
               1
                      109
                                       22
                                                                   2014-01-20
## 3
               3
                       71
                                       22
                                               SNF 2014-01-01
                                                                   2014-01-07
## 4
               6
                       98
                                       22
                                              SNF 2014-01-01
                                                                   2014-01-08
## 5
                                       22
               6
                       99
                                              SNF 2014-01-19
                                                                   2014-02-01
## 6
               7
                      893
                                       22
                                            Rehab 2014-01-01
                                                                   2014-01-16
## 7
                                       22
               8
                     2556
                                              SNF 2014-01-01
                                                                   2014-01-06
## 8
               9
                      649
                                       22
                                              SNF 2014-01-01
                                                                   2014-01-08
## 9
                                       22
             10
                      979
                                              SNF 2014-01-01
                                                                   2014-01-04
## 10
                                       22
                                              SNF 2014-01-01
                                                                   2014-01-02
                     1815
             11
## 11
             13
                     1663
                                       22
                                               SNF 2014-01-01
                                                                   2014-01-04
## 12
             14
                      999
                                       22
                                               SNF 2014-01-01
                                                                   2014-01-02
## 13
             16
                                       22
                                             Rehab 2014-01-01
                                                                   2014-01-08
                       11
## 14
                      587
                                       22
                                               SNF 2014-01-01
                                                                   2014-01-03
             17
## 15
             18
                     1868
                                       22
                                               SNF 2014-01-01
                                                                   2014-01-03
## 16
             21
                     1180
                                       22
                                              SNF 2014-01-01
                                                                   2014-02-21
                                              SNF 2014-03-04
## 17
             21
                     1181
                                       22
                                                                   2014-03-19
## 18
             23
                     1920
                                       22
                                              SNF 2014-01-01
                                                                   2014-01-07
             30
                                       22
                                              SNF 2014-01-01
                                                                   2014-01-04
## 19
                      512
                                       22
## 20
             33
                      732
                                              SNF 2014-01-01
                                                                   2014-01-05
##
        Admit_source
## 1
      Emergency Room
## 2
             Transfer
## 3
             Transfer
## 4
      Emergency Room
## 5
             Transfer
## 6
      Emergency Room
## 7
             Transfer
## 8
      Emergency Room
## 9
      Emergency Room
## 10
             Transfer
## 11
             Transfer
## 12 Emergency Room
## 13
                  SNF
## 14
            Transfer
## 15 Emergency Room
## 16
             Transfer
## 17
             Transfer
## 18
            Transfer
## 19 Emergency Room
## 20 Emergency Room
```

Finding values using LIKE

We can do string matching using the LIKE statement. For example, we may want to return all values in a column that have patient in them. We can use the % as a wildcard to match multiple characters. For example, using LIKE "patient%" will match patientID, patientSource, and patientName, but not patSource.

Here we are selecting everything from the patient table that have postal codes that match 970%.

```
sqlStatement <- "SELECT * from patient where postalcode LIKE '970%'"
queryResult <- dbGetQuery(con, sqlStatement)
queryResult[1:20,]</pre>
```

##		patientid	GENDER	First_name	Last name	DOB	age sta	atus	PCP	CM	ID
##	1	_	Female	Gilly	Doe		NA	4	14		NA
##	2	1079	Male	Gill	Doe	NA	NA	4	14]	NA
##	3	154	Male	Gill	Doe	NA	NA	4	14]	NA
##	4	96	Female	Gilly	Doe	NA	NA	4	14]	NA
##	5	1426	Male	Gill	Doe	NA	NA	4	14]	NA
##	6	369	Female	Gilly	Doe	NA	NA	4	14]	NA
##	7	625	Female	Gilly	Doe	NA	NA	4	14]	NA
##	8	728	Female	Gilly	Doe	NA	NA	4	14]	NA
##	9	428	Female	Gilly	Doe	NA	NA	4	14]	NA
##	10	483	Female	Gilly	Doe	NA	NA	4	14]	NA
##	11	179	${\tt Female}$	Gilly	Doe	NA	NA	4	14]	NA
##	12	1430	Male	Gill	Doe	NA	NA	4	14]	NA
##	13	971	${\tt Female}$	Gilly	Doe	NA	NA	4	14]	NA
##	14	200	${\tt Female}$	Gilly	Doe	NA	NA	4	14]	NA
##	15	1584	${\tt Female}$	Gilly	Doe	NA	NA	4	14]	NA
##	16	1077	${\tt Female}$	Gilly	Doe	NA	NA	4	14]	NA
##	17	1485	${\tt Female}$	Gilly	Doe	NA	NA	4	14]	NA
##	18	538	Male	Gill	Doe	NA	NA	4	14]	NA
##	19	1028	${\tt Female}$	Gilly	Doe	NA	NA	4	14]	NA
##	20	163	Male	Gill	Doe	NA	NA	4	14		NA
##			ate Insi	urance_ID ra	ace postal				sksco	ore (deleted
	1		ate Insi NA	3	ace postal 1 9	7035	Higl	n	sksco	4	0
##	1 2		ate Insi NA NA	3 3	ace postal 1 9 3 9	7035 7035	Higl Higl	n n	sksco	4 3	0
## ## ## ##	1 2 3		nte Insi NA NA NA	3 3 3	1 9 3 9 3 9	7035 7035 7035	Hig Hig Hig	n n	sksco	4 3 3	0 0 0
## ## ## ##	1 2 3 4		ate Insu NA NA NA NA	3 3 3 3	ace postal 1 9 3 9 3 9 4 9	7035 7035 7035 7035	Higl Higl Higl Higl	n n n	sksco	4 3 3 3	0 0 0
## ## ## ## ##	1 2 3 4 5		nte Insu NA NA NA NA NA	3 3 3 3 3	ace postal 1 9 3 9 3 9 4 9 3 9	7035 7035 7035 7035 7035	Higl Higl Higl Higl Higl	n n n n	sksco	4 3 3 3	0 0 0 0
## ## ## ## ## ##	1 2 3 4 5 6		NA NA NA NA NA NA NA NA NA	3 3 3 3 3 3	ace postal 1 9 3 9 3 9 4 9 3 9 1 9	7035 7035 7035 7035 7035 7035	High High High High High Norma	n n n n n	sksco	4 3 3 3 3 2	0 0 0 0 0
## ## ## ## ## ##	1 2 3 4 5 6 7		nte Insu NA NA NA NA NA NA	3 3 3 3 3 3	1 9 3 9 3 9 4 9 3 9 1 9	7035 7035 7035 7035 7035 7035 7035	High High High High High Normal	1 1 1 1 1 1	sksco	4 3 3 3 3 2 3	0 0 0 0 0
## ## ## ## ## ##	1 2 3 4 5 6 7 8		nte Insu NA NA NA NA NA NA NA	3 3 3 3 3 3 3	1 9 3 9 3 9 4 9 3 9 1 9 1 9	7035 7035 7035 7035 7035 7035 7035	Higl Higl Higl Higl Norma Higl Higl		sksco	4 3 3 3 3 2 3 4	0 0 0 0 0 0
## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9		nte Insu NA NA NA NA NA NA NA	3 3 3 3 3 3 3 3	1 9 3 9 3 9 4 9 3 9 1 9 1 9 1 9	7035 7035 7035 7035 7035 7035 7035 7035	Higl Higl Higl Higl Norma Higl Higl Higl	1 1 1 1 1 1 1	sksco	4 3 3 3 3 2 3 4 4	0 0 0 0 0 0 0
## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9		NA	3 3 3 3 3 3 3 3 3	1 9 3 9 3 9 4 9 3 9 1 9 1 9 1 9 1 9	7035 7035 7035 7035 7035 7035 7035 7035	Higl Higl Higl Higl Norma Higl Higl Higl Higl		sksco	4 3 3 3 2 3 4 4 3	0 0 0 0 0 0 0
## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9 10		NA N	3 3 3 3 3 3 3 3 3 3 3 3	1 9 3 9 3 9 4 9 3 9 1 9 1 9 1 9 1 9	7035 7035 7035 7035 7035 7035 7035 7035	Higl Higl Higl Higl Norma: Higl Higl Higl Higl		sksco	4 3 3 3 2 3 4 4 3 3	0 0 0 0 0 0 0 0
## ## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9 10 11 12		NA N	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 9 3 9 3 9 4 9 3 9 1 9 1 9 1 9 1 9 1 9	7035 7035 7035 7035 7035 7035 7035 7035	High High High High Norma High High High High High High		sksco	4 3 3 3 2 3 4 4 3 3 4	0 0 0 0 0 0 0 0 0
## ## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9 10 11 12 13		NA N	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ace postal 1 9 3 9 4 9 3 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9	7035 7035 7035 7035 7035 7035 7035 7035	Higl Higl Higl Higl Norma Higl Higl Higl Higl Higl Higl		sksco	4 3 3 3 2 3 4 4 3 3 4 3	0 0 0 0 0 0 0 0 0
## ## ## ## ## ## ## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9 10 11 12 13 14		NA N	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ace postal 1 9 3 9 4 9 3 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9	7035 7035 7035 7035 7035 7035 7035 7035	Higl Higl Higl Higl Norma Higl Higl Higl Higl Higl Higl		sksco	4 3 3 3 3 2 3 4 4 3 5 5	0 0 0 0 0 0 0 0 0
######################################	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		NA N	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 9 3 9 4 9 3 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1	7035 7035 7035 7035 7035 7035 7035 7035	Higl Higl Higl Higl Norma: Higl Higl Higl Higl Higl Higl		sksco	4 3 3 3 2 3 4 4 3 3 4 3 5 4 4 4 3 5 4	0 0 0 0 0 0 0 0 0
## ## ## ## ## ## ## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16		NA N	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ace postal 1 9 3 9 3 9 4 9 3 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1	7035 7035 7035 7035 7035 7035 7035 7035	High High High High Normal High High High High High High High High	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	sksco	4 3 3 3 2 3 4 4 3 3 4 3 5 4 4 3 5 5 4 3 5 3 5	0 0 0 0 0 0 0 0 0 0
## ## ## ## ## ## ## ## ## ##	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17		NA N	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ace postal 1 9 3 9 4 9 3 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1	7035 7035 7035 7035 7035 7035 7035 7035	High High High High Normal High High High High High High High High		sksco	4 3 3 3 2 3 4 4 3 3 5 4 3 5 4 3 5	
######################################	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		NA N	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ace postal 1 9 3 9 4 9 3 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1	7035 7035 7035 7035 7035 7035 7035 7035	High High High High Normal High High High High High High High High		sksco	4 3 3 3 2 3 4 4 3 3 4 3 5 4 5 4	
######################################	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17		NA N	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ace postal 1 9 3 9 4 9 3 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1	7035 7035 7035 7035 7035 7035 7035 7035	High High High High Normal High High High High High High High High		sksco	4 3 3 3 2 3 4 4 3 3 5 4 3 5 4 3 5	

```
##
       date_deleted facility source
## 1
                  NA
                           500
                                  deid
## 2
                  NA
                           500
                                  deid
## 3
                           500
                  NA
                                  deid
## 4
                  NA
                           500
                                  deid
## 5
                           500
                  NA
                                  deid
## 6
                  NA
                           500
                                  deid
## 7
                  NA
                           500
                                  deid
## 8
                  NA
                           500
                                  deid
## 9
                  NA
                           500
                                  deid
## 10
                  NA
                           500
                                  deid
## 11
                           500
                  NA
                                  deid
## 12
                  NA
                           500
                                  deid
                                  deid
## 13
                  NA
                           500
## 14
                           500
                  NA
                                  deid
## 15
                  NA
                           500
                                  deid
## 16
                           500
                  NA
                                  deid
## 17
                  NA
                           500
                                  deid
## 18
                           500
                  NA
                                  deid
## 19
                  NA
                           500
                                  deid
## 20
                  NA
                           500
                                  deid
```

We can chain multiple LIKE clauses using boolean operators such as AND, OR, and NOT. Unfortunately, SQLite does not understand the ANY clause, which would simplify our searching.

```
patientid GENDER First_name Last_name DOB age status PCP CM_ID
##
## 1
            1214 Female
                               Gilly
                                             Doe
                                                       NA
                                                                4
                                                                    14
                                                                           NA
                                                  NA
## 2
            1079
                                                                    14
                    Male
                                Gill
                                             Doe
                                                   NA
                                                       NA
                                                                 4
                                                                           NA
                                             Doe
## 3
             154
                    Male
                                Gill
                                                   NA
                                                       NA
                                                                4
                                                                    14
                                                                           NA
## 4
                                                                 4
              96 Female
                               Gilly
                                             Doe
                                                   NA
                                                       NA
                                                                    14
                                                                           NA
## 5
            1426
                                Gill
                                                                4
                                                                    14
                    Male
                                             Doe
                                                   NA
                                                       NA
                                                                           NA
## 6
             625 Female
                               Gilly
                                             Doe
                                                   NA
                                                       NA
                                                                 4
                                                                    14
                                                                           NA
## 7
                                                                4
                                                                    14
             728 Female
                                             Doe
                                                   NA
                                                       NA
                                                                           NA
                               Gilly
## 8
             428 Female
                               Gilly
                                             Doe
                                                   NA
                                                       NA
                                                                    14
                                                                           NA
## 9
             483 Female
                                                                 4
                                                                    14
                               Gilly
                                             Doe
                                                   NA
                                                       NA
                                                                           NA
## 10
             179 Female
                               Gilly
                                             Doe
                                                   NA
                                                       NA
                                                                4
                                                                    14
                                                                           NA
            1430
                                                                4
                                                                    14
## 11
                    Male
                                Gill
                                             Doe
                                                   NA
                                                       NA
                                                                           NA
## 12
                                                                4
                                                                    14
             971 Female
                               Gilly
                                             Doe
                                                   NA
                                                       NA
                                                                           NA
             200 Female
## 13
                                                                4
                                                                    14
                               Gilly
                                             Doe
                                                  NA
                                                       NA
                                                                           NA
## 14
            1584 Female
                               Gilly
                                             Doe
                                                   NA
                                                       NA
                                                                4
                                                                    14
                                                                           NA
                               Gilly
                                                                4
                                                                    14
## 15
            1077 Female
                                                   NA
                                                                           NA
                                             Doe
                                                       NA
## 16
             538
                    Male
                                Gill
                                             Doe
                                                   NA
                                                       NA
                                                                 4
                                                                    14
                                                                           NA
             163
                                                                 4
                                                                    14
## 17
                    Male
                                Gill
                                             Doe
                                                   NA
                                                       NA
                                                                           NA
## 18
             831 Female
                                             Doe
                                                  NA
                                                       NA
                                                                4
                                                                    14
                                                                           NA
                               Gilly
## 19
            1113 Female
                               Gilly
                                             Doe
                                                  NA
                                                       NA
                                                                 4
                                                                    14
                                                                           NA
## 20
             197
                                Gill
                                                                4
                                                                    14
                    Male
                                             Doe
                                                  NA
                                                       NA
                                                                           NA
##
      referraldate Insurance_ID race postalcode riskCat riskscore deleted
## 1
                  NA
                                  3
                                       1
                                               97035
                                                          High
                                                                        4
```

##	2	NA		3	3	97035	High	3	0
##	3	NA		3	3	97035	High	3	0
##	4	NA		3	4	97035	High	3	0
##	5	NA		3	3	97035	High	3	0
##	6	NA		3	1	97035	High	3	0
##	7	NA		3	1	97035	High	4	0
##	8	NA		3	1	97035	High	4	0
##	9	NA		3	1	97035	High	3	0
##	10	NA		3	1	97035	High	3	0
##	11	NA		3	1	97035	High	4	0
##	12	NA		3	1	97035	High	3	0
##	13	NA		3	1	97035	High	5	0
##	14	NA		3	1	97035	High	4	0
##	15	NA		3	1	97035	High	3	0
##	16	NA		3	1	97035	High	3	0
##	17	NA		3	1	97035	High	6	0
##	18	NA		3	1	97035	High	3	0
##	19	NA		3	1	97035	High	3	0
##	20	NA		3	3	97035	High	3	0
##		date_deleted	facility	source					
##	1	NA	500	deid					
##	2	NA	500	deid					
##	3	NA	500	deid					
##	4	NA	500	deid					
##	5	NA	500	deid					
##	6	NA	500	deid					
##	7	NA	500	deid					
##	8	NA	500	deid					
##	9	NA	500	deid					
##	10	NA	500	deid					
##	11	NA	500	deid					
##	12	NA	500	deid					
##	13	NA	500	deid					
##	14	NA	500	deid					
##	15	NA	500	deid					
##	16	NA	500	deid					
	17	NA	500	deid					
##	18	NA	500	deid					
##	19	NA	500	deid					
##		NA	500	deid					
-	-								