Working with SQL in R: Chicago Crime Incident Data (2001-present)

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This coding exercise was from University of Pennsylvania's Criminal Justice Data Science Course taught by Dr. Gregory Ridgeway. Script has been modified from course examples to fit personal notation conventions. Data was taken from the Chicago Data Portal.

Clean Data

Load CSV File and Check Commas

Values should be separated by semi-colon instead of commas. Extra commas in SQL can create a new column affecting the shape of the dataset.

```
# Read first 1000 lines
  infile  <- file("chicago-crime-2001-pres.csv", "r") # set up ability to read file
  a <- readLines(infile, n=10000)
  close(infile) # close the file

# Count commas for each row and check consistency
  a[1]
  regexpr(",",a[1])
  gregexpr(",",a[1])

  b <- sapply(gregexpr(",",a),length)
  table(b)

  i <- which(b == 21)
  a[2] # 22 commas
  a[i[1:4]]

  i <- which(b == 23)
  a[2] # 22 commas
  a[i[1:4]]

  i <- which(b == 24)
  a[2] # 22 commas
  a[i[1:4]]
```

```
## [1] "ID,Case Number,Date,Block,IUCR,Primary Type,Description,Location Description,Arrest,Domestic,Bea
```

```
## [1] 3
## attr(,"match.length")
## [1] 1
## attr(,"index.type")
## [1] "chars"
## attr(,"useBytes")
## [1] TRUE
## [[1]]
##  [1]   3  15  20  26  31  44  56  77  84  93  98 107 112 127 136 149 162 167 178
## [20] 187 197
## attr(,"match.length")
##  [1] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
## attr(,"index.type")
## [1] "chars"
## attr(,"useBytes")
## [1] TRUE
##
## b
##   21   22   23
## 9770   24  206
## [1] "11034701,JA366925,01/01/2001 11:00:00 AM,016XX E 86TH PL,1153,DECEPTIVE PRACTICE,FINANCIAL IDENT
## [1] "ID,Case Number,Date,Block,IUCR,Primary Type,Description,Location Description,Arrest,Domestic,Bea
## [2] "11034701,JA366925,01/01/2001 11:00:00 AM,016XX E 86TH PL,1153,DECEPTIVE PRACTICE,FINANCIAL IDENT
## [3] "11227287,JB147188,10/08/2017 03:00:00 AM,092XX S RACINE AVE,0281,CRIM SEXUAL ASSAULT,NON-AGGRAVA
## [4] "11227583,JB147595,03/28/2017 02:00:00 PM,026XX W 79TH ST,0620,BURGLARY,UNLAWFUL ENTRY,OTHER,fals
## [1] "11034701,JA366925,01/01/2001 11:00:00 AM,016XX E 86TH PL,1153,DECEPTIVE PRACTICE,FINANCIAL IDENT
## [1] "11227513,JB137941,09/01/2017 09:00:00 AM,030XX W HARRISON ST,1562,SEX OFFENSE,AGG CRIMINAL SEXUA
## [2] "11243873,JB168420,02/28/2017 12:00:00 AM,110XX S VERNON AVE,0265,CRIM SEXUAL ASSAULT,AGGRAVATED
## [3] "11244118,JB169797,12/23/2017 09:00:00 AM,006XX E 91ST PL,0890,THEFT,FROM BUILDING,\"SCHOOL, PUB
## [4] "11039128,JA371681,08/01/2015 12:01:00 AM,039XX N LAWNDALE AVE,1780,OFFENSE INVOLVING CHILDREN,OT
## [1] "11034701,JA366925,01/01/2001 11:00:00 AM,016XX E 86TH PL,1153,DECEPTIVE PRACTICE,FINANCIAL IDENT
## [1] NA NA NA NA
```

Use regular expressions to clean data

```r
  # Set up input file and output file
    infile  <- file("chicago-crime-2001-pres.csv",       'r')
    outfile <- file("chicago-crime-2001-pres-clean.csv", 'w')

  # Fix variable names
    a <- readLines(infile, n = 1)
    a <- gsub(",Location$", "", a) # just delete ",Location" at end
    a <- gsub(",", ";", a) # separate with ;
    a <- gsub("[\\. ]", "", a)  # SQL doesn't like field names with .
    writeLines(a, con=outfile)
    flush(outfile) # flush what's been written to the storage media

  # Loop through the rest of the data, 100,000 rows at a time
    c.lines <- 0
    system.time(
      while ((length(a <- readLines(infile, n=100000)) >  0))
      {
```

```r
      c.lines <- c.lines + length(a)
      print(c.lines)

      # Remove the redundant "Location" coordinates
        a0 <- gsub(",\"\\([[:print:]]*","", a) # Delete everything after parenthesis

      # Remove the extra comma for those missing Location
       i <- which(a == a0)
       a0[i] <- gsub(",$", "", a0[i])
       a <- a0

      # Turn commas outside double quotes to semicolons
      # Use ?= to "lookahead" for paired quotes
        a <- gsub("(,)(?=(?:[^\"]|\"[^\"]*\")*$)", ";", a, perl = TRUE)

      # Write the cleaned up data to storage
        writeLines(a, con=outfile)
    }
  )
  close(infile)
  close(outfile)

 # Check any problematic lines
   a <- scan("chicago-crime-2001-pres-clean.csv", what="",sep="\n",skip=850000,nlines=3)
```

```
## [1] 1e+05
## [1] 2e+05
## [1] 3e+05
## [1] 4e+05
## [1] 5e+05
## [1] 6e+05
## [1] 7e+05
## [1] 8e+05
## [1] 9e+05
## [1] 1e+06
## [1] 1100000
## [1] 1200000
## [1] 1300000
## [1] 1400000
## [1] 1500000
## [1] 1600000
## [1] 1700000
## [1] 1800000
## [1] 1900000
## [1] 2e+06
## [1] 2100000
## [1] 2200000
## [1] 2300000
## [1] 2400000
## [1] 2500000
## [1] 2600000
## [1] 2700000
## [1] 2800000
```

```
## [1] 2900000
## [1] 3e+06
## [1] 3100000
## [1] 3200000
## [1] 3300000
## [1] 3400000
## [1] 3500000
## [1] 3600000
## [1] 3700000
## [1] 3800000
## [1] 3900000
## [1] 4e+06
## [1] 4100000
## [1] 4200000
## [1] 4300000
## [1] 4400000
## [1] 4500000
## [1] 4600000
## [1] 4700000
## [1] 4800000
## [1] 4900000
## [1] 5e+06
## [1] 5100000
## [1] 5200000
## [1] 5300000
## [1] 5400000
## [1] 5500000
## [1] 5600000
## [1] 5700000
## [1] 5800000
## [1] 5900000
## [1] 6e+06
## [1] 6100000
## [1] 6200000
## [1] 6300000
## [1] 6400000
## [1] 6500000
## [1] 6600000
## [1] 6700000
## [1] 6800000
## [1] 6900000
## [1] 7e+06
## [1] 7087077
##    user  system elapsed
## 550.840   6.611 563.991
```

Build a SQL Database

```
# Load Package
  library(sqldf)
```

```r
# Import the cleaned data file into RSQLite
con <- dbConnect(SQLite(), dbname="chicagocrime.db")
a <- read.table("chicago-crime-2001-pres-clean.csv", sep = ";", nrows = 5, header = TRUE)
variabletypes <- dbDataType(con, a)
variabletypes["IUCR"] <- "TEXT"

if(dbExistsTable(con, "crime")) dbRemoveTable(con, "crime")

dbWriteTable(con, "crime",
             "chicago-crime-2001-pres-clean.csv",
             row.names = FALSE,
             header = TRUE,
             field.types = variabletypes,
             sep = ";")

# Check if the new "crime" table exists and view columns
dbListFields(con, "crime")
```

```
##  [1] "ID"                 "CaseNumber"          "Date"
##  [4] "Block"              "IUCR"                "PrimaryType"
##  [7] "Description"        "LocationDescription" "Arrest"
## [10] "Domestic"           "Beat"                "District"
## [13] "Ward"               "CommunityArea"       "FBICode"
## [16] "XCoordinate"        "YCoordinate"         "Year"
## [19] "UpdatedOn"          "Latitude"            "Longitude"
```

```r
# Disconnect to finalize
dbDisconnect(con)
```

Clean data via SQL query

Missing Values

```r
# Convert blanks into NULL
con <- dbConnect(SQLite(), dbname="chicagocrime.db")
res <- dbSendQuery(con, "UPDATE crime
                        SET Ward = NULL
                        WHERE (Ward = '')")
res <- dbSendQuery(con, "UPDATE crime
                        SET District = NULL
                        WHERE (District = '')")

# Convert empty coordinate values into NULL
res <- dbSendQuery(con, "UPDATE crime
                        SET XCoordinate = NULL
                        WHERE (YCoordinate = '') OR (YCoordinate = 0)")
res <- dbSendQuery(con, "UPDATE crime
                        SET YCoordinate = NULL
                        WHERE (YCoordinate = '') OR (YCoordinate = 0)")

# Round up figures close to 0
```

```
  res <- dbSendQuery(con, "UPDATE crime
                           SET Latitude = NULL
                           WHERE (Latitude = '') OR (ABS(Latitude-0.0)<0.01)")
  res <- dbSendQuery(con, "UPDATE crime
                           SET Longitude = NULL
                           WHERE (Longitude = '') OR (ABS(Longitude-0.0)<0.01)")
```

Remove coordinates outside of Chicago

```
res <- dbSendQuery(con, "UPDATE crime
                         SET Longitude = NULL
                         WHERE Longitude < -88")
res <- dbSendQuery(con, "UPDATE crime
                         SET Latitude = NULL
                         WHERE Latitude < 41")

dbDisconnect(con)
```

Create IUCR Lookup Table

Primary crime type, FBI code, and IUCR are redundant in one table. Put in separate tables but link all of the information. ## Remove redundant information

```
# Load Packages
  library(gsubfn)
  library(proto)
  library(RSQLite)

# Eliminate duplicate rows
  con <- dbConnect(SQLite(), dbname="chicagocrime.db")
  res <- dbSendQuery(con, "SELECT DISTINCT IUCR, PrimaryType, FBICode
                           FROM crime")
  a <- fetch(res, n = -1)
  dbClearResult(res)

# Check that each IUCR is linked to a unique value primary crime type and FBI code
  sort(table(a$IUCR))
```

```
##
## 0110 0130 0141 0142 0261 0262 0263 0264 0265 0266 0271 0272 0273 0274 0275 0281
##    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1
## 0291 0312 0313 031A 031B 0320 0325 0326 0330 0331 0334 0337 033A 033B 0340 041A
##    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1
## 041B 0420 0430 0440 0450 0451 0452 0453 0454 0460 0461 0462 0470 0475 0479 0480
##    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1
## 0481 0482 0483 0484 0485 0486 0487 0488 0489 0490 0492 0493 0494 0495 0496 0497
##    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1
## 0498 0499 0510 051A 051B 0520 0530 0545 0550 0551 0552 0553 0554 0555 0556 0557
##    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1
```

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```
## 0558 0560 0580 0581 0583 0584 0585 0610 0620 0630 0650 0810 0820 0830 0840 0841
##    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1
## 0842 0843 0850 0860 0865 0870 0880 0890 0895 0910 0915 0917 0918 0920 0925 0927
##    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1
## 0928 0930 0935 0937 0938 1010 1020 1025 1050 1055 1090 1110 1120 1121 1122 1130
##    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1
## 1135 1140 1150 1151 1152 1153 1154 1155 1156 1160 1170 1185 1195 1200 1205 1206
##    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1
## 1210 1220 1230 1235 1240 1241 1242 1245 1255 1260 1265 1305 1310 1320 1330 1335
##    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1
## 1340 1345 1350 1360 1365 1370 1375 141A 141B 141C 142A 142B 1435 143A 143B 143C
##    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1
## 1440 1450 1460 1476 1477 1478 1479 1480 1481 1505 1506 1507 1510 1511 1512 1513
##    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1
## 1515 1520 1521 1525 1526 1530 1531 1535 1536 1544 1549 1562 1563 1564 1565 1566
##    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1
## 1570 1572 1574 1578 1580 1581 1582 1585 1590 1610 1611 1620 1621 1622 1624 1625
##    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1
## 1626 1627 1630 1631 1633 1640 1650 1651 1661 1670 1680 1681 1682 1697 1720 1753
##    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1
## 1754 1791 1811 1812 1821 1822 1840 1850 1860 1900 2010 2011 2012 2013 2014 2015
##    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1
## 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031
##    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1
## 2032 2033 2034 2040 2050 2060 2070 2080 2090 2094 2095 2110 2111 2120 2160 2170
##    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1
## 2210 2220 2230 2240 2250 2251 2825 2826 2830 2840 2860 2870 2900 3000 3100 3200
##    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1
## 3400 3610 3710 3720 3730 3731 3740 3750 3751 3760 3770 3800 3910 3920 3970 3975
##    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1
## 3980 4210 4220 4230 4240 4255 4310 4386 4387 4388 4389 4510 4625 4650 4651 4652
##    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1
## 4740 4750 4800 4810 4860 5000 5001 5002 5003 5004 5005 5007 5008 5009 500E 500N
##    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1
## 5011 5013 501A 501H 502P 502R 502T 5073 5093 5094 5110 5111 5112 5113 5120 5121
##    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1
## 5122 5130 5131 5132 9901 1030 1035 1261 1537 1540 1541 1576 1710 1715 1725 1750
##    1    1    1    1    1    2    2    2    2    2    2    2    2    2    2    2
## 1751 1752 1755 1780 1790 1792 2091 2092 2093 2820 2850 2851 2890 2895 3300 3960
##    2    2    2    2    2    2    2    2    2    2    2    2    2    2    2    2
## 3961 3966 5114
##    2    2    2
```

```r
subset(a, IUCR %in% 2091:2093)
```

```
##     IUCR PrimaryType FBICode
## 42  2093   NARCOTICS      18
## 44  2091   NARCOTICS      18
## 124 2091   NARCOTICS      26
## 145 2092   NARCOTICS      26
## 150 2093   NARCOTICS      26
## 294 2092   NARCOTICS      18
```

Research discrepancy with FBI codes

Narcotics

IUCR codes 2091 (forfeit property), 2092 ("soliciting narcotics on a publicway)" and 2093 ("found suspect narctics") are related to narcotics. Accompanying FBI codes include 18 ("crimes of production, sale, use of drugs) and 26 ("miscellaneous"). Usage of FBI Code 26 phases out after 2015.

```r
res <- dbSendQuery(con, "SELECT DISTINCT IUCR,
                                FBICode,
                                SUBSTR(Date,7,4) AS year
                      FROM crime
                      WHERE IUCR='2091' OR IUCR='2092' OR IUCR='2093'
                      ORDER BY IUCR,FBICode, year")
fetch(res, n = -1)
```

```
##      IUCR FBICode year
## 1   2091      18 2012
## 2   2091      18 2013
## 3   2091      18 2014
## 4   2091      18 2015
## 5   2091      18 2016
## 6   2091      18 2017
## 7   2091      18 2018
## 8   2091      18 2019
## 9   2091      18 2020
## 10 2091      26 2001
## 11 2091      26 2002
## 12 2091      26 2003
## 13 2091      26 2004
## 14 2091      26 2005
## 15 2091      26 2006
## 16 2091      26 2007
## 17 2091      26 2008
## 18 2091      26 2009
## 19 2091      26 2010
## 20 2091      26 2011
## 21 2091      26 2012
## 22 2091      26 2013
## 23 2091      26 2014
## 24 2091      26 2015
## 25 2092      18 2015
## 26 2092      18 2016
## 27 2092      18 2017
## 28 2092      18 2018
## 29 2092      18 2019
## 30 2092      18 2020
## 31 2092      26 2001
## 32 2092      26 2002
## 33 2092      26 2003
## 34 2092      26 2004
## 35 2092      26 2005
## 36 2092      26 2006
## 37 2092      26 2007
```

```
## 38 2092        26 2008
## 39 2092        26 2009
## 40 2092        26 2010
## 41 2092        26 2011
## 42 2092        26 2012
## 43 2092        26 2013
## 44 2092        26 2014
## 45 2092        26 2015
## 46 2093        18 2008
## 47 2093        18 2010
## 48 2093        18 2011
## 49 2093        18 2012
## 50 2093        18 2013
## 51 2093        18 2014
## 52 2093        18 2015
## 53 2093        18 2016
## 54 2093        18 2017
## 55 2093        18 2018
## 56 2093        18 2019
## 57 2093        18 2020
## 58 2093        26 2001
## 59 2093        26 2002
## 60 2093        26 2003
## 61 2093        26 2004
## 62 2093        26 2005
## 63 2093        26 2006
## 64 2093        26 2007
## 65 2093        26 2008
## 66 2093        26 2009
## 67 2093        26 2010
## 68 2093        26 2011
## 69 2093        26 2012
## 70 2093        26 2013
## 71 2093        26 2014
## 72 2093        26 2015
```

```r
dbClearResult(res)
```

Offenses involving children

IUCR crimes 1710, 1715, 1725, 1755, and 1780 are offenses that involve children. Before 2016, assigned as FBI Code 26 and recently coded as FBI Code 20 ("offense against family").

```r
res <- dbSendQuery(con, "SELECT COUNT(*) as crimecount,
                              IUCR,
                              FBICode,
                              PrimaryType,
                              SUBSTR(Date,7,4) AS year
                       FROM crime
                       WHERE IUCR='1710' OR IUCR='1715' OR IUCR='1725' OR IUCR='1755' OR IUCR='1780'
                       GROUP BY IUCR, PrimaryType, FBICode, year")
fetch(res, n = -1)
```

```
##      crimecount IUCR FBICode              PrimaryType year
```

```
## 1          1 1710    20 OFFENSE INVOLVING CHILDREN 2012
## 2          6 1710    20 OFFENSE INVOLVING CHILDREN 2013
## 3          1 1710    20 OFFENSE INVOLVING CHILDREN 2014
## 4         21 1710    20 OFFENSE INVOLVING CHILDREN 2015
## 5        276 1710    20 OFFENSE INVOLVING CHILDREN 2016
## 6        327 1710    20 OFFENSE INVOLVING CHILDREN 2017
## 7        334 1710    20 OFFENSE INVOLVING CHILDREN 2018
## 8        385 1710    20 OFFENSE INVOLVING CHILDREN 2019
## 9         68 1710    20 OFFENSE INVOLVING CHILDREN 2020
## 10       503 1710    26 OFFENSE INVOLVING CHILDREN 2001
## 11       506 1710    26 OFFENSE INVOLVING CHILDREN 2002
## 12       479 1710    26 OFFENSE INVOLVING CHILDREN 2003
## 13       427 1710    26 OFFENSE INVOLVING CHILDREN 2004
## 14       413 1710    26 OFFENSE INVOLVING CHILDREN 2005
## 15       392 1710    26 OFFENSE INVOLVING CHILDREN 2006
## 16       403 1710    26 OFFENSE INVOLVING CHILDREN 2007
## 17       337 1710    26 OFFENSE INVOLVING CHILDREN 2008
## 18       374 1710    26 OFFENSE INVOLVING CHILDREN 2009
## 19       362 1710    26 OFFENSE INVOLVING CHILDREN 2010
## 20       332 1710    26 OFFENSE INVOLVING CHILDREN 2011
## 21       333 1710    26 OFFENSE INVOLVING CHILDREN 2012
## 22       270 1710    26 OFFENSE INVOLVING CHILDREN 2013
## 23       315 1710    26 OFFENSE INVOLVING CHILDREN 2014
## 24       266 1710    26 OFFENSE INVOLVING CHILDREN 2015
## 25         8 1710    26 OFFENSE INVOLVING CHILDREN 2016
## 26         1 1715    20 OFFENSE INVOLVING CHILDREN 2016
## 27         1 1715    20 OFFENSE INVOLVING CHILDREN 2017
## 28         2 1715    20 OFFENSE INVOLVING CHILDREN 2018
## 29         3 1715    20 OFFENSE INVOLVING CHILDREN 2019
## 30         1 1715    20 OFFENSE INVOLVING CHILDREN 2020
## 31         4 1715    26 OFFENSE INVOLVING CHILDREN 2003
## 32         1 1715    26 OFFENSE INVOLVING CHILDREN 2006
## 33         1 1715    26 OFFENSE INVOLVING CHILDREN 2007
## 34         3 1715    26 OFFENSE INVOLVING CHILDREN 2008
## 35         2 1715    26 OFFENSE INVOLVING CHILDREN 2009
## 36         3 1715    26 OFFENSE INVOLVING CHILDREN 2010
## 37         2 1715    26 OFFENSE INVOLVING CHILDREN 2011
## 38         4 1715    26 OFFENSE INVOLVING CHILDREN 2012
## 39         1 1715    26 OFFENSE INVOLVING CHILDREN 2013
## 40         1 1715    26 OFFENSE INVOLVING CHILDREN 2015
## 41         2 1725    20 OFFENSE INVOLVING CHILDREN 2014
## 42         1 1725    20 OFFENSE INVOLVING CHILDREN 2015
## 43         4 1725    20 OFFENSE INVOLVING CHILDREN 2016
## 44        15 1725    20 OFFENSE INVOLVING CHILDREN 2017
## 45         5 1725    20 OFFENSE INVOLVING CHILDREN 2018
## 46         6 1725    20 OFFENSE INVOLVING CHILDREN 2019
## 47         1 1725    20 OFFENSE INVOLVING CHILDREN 2020
## 48         2 1725    26 OFFENSE INVOLVING CHILDREN 2002
## 49         4 1725    26 OFFENSE INVOLVING CHILDREN 2003
## 50         1 1725    26 OFFENSE INVOLVING CHILDREN 2004
## 51         5 1725    26 OFFENSE INVOLVING CHILDREN 2005
## 52         4 1725    26 OFFENSE INVOLVING CHILDREN 2006
## 53         9 1725    26 OFFENSE INVOLVING CHILDREN 2007
## 54         4 1725    26 OFFENSE INVOLVING CHILDREN 2008
```

```
## 55            3 1725      26 OFFENSE INVOLVING CHILDREN 2009
## 56           16 1725      26 OFFENSE INVOLVING CHILDREN 2010
## 57            9 1725      26 OFFENSE INVOLVING CHILDREN 2011
## 58            7 1725      26 OFFENSE INVOLVING CHILDREN 2012
## 59           12 1725      26 OFFENSE INVOLVING CHILDREN 2013
## 60           12 1725      26 OFFENSE INVOLVING CHILDREN 2014
## 61            9 1725      26 OFFENSE INVOLVING CHILDREN 2015
## 62            3 1755      20 OFFENSE INVOLVING CHILDREN 2015
## 63           32 1755      20 OFFENSE INVOLVING CHILDREN 2016
## 64           46 1755      20 OFFENSE INVOLVING CHILDREN 2017
## 65           29 1755      20 OFFENSE INVOLVING CHILDREN 2018
## 66           39 1755      20 OFFENSE INVOLVING CHILDREN 2019
## 67            8 1755      20 OFFENSE INVOLVING CHILDREN 2020
## 68           37 1755      26 OFFENSE INVOLVING CHILDREN 2002
## 69           75 1755      26 OFFENSE INVOLVING CHILDREN 2003
## 70           69 1755      26 OFFENSE INVOLVING CHILDREN 2004
## 71           64 1755      26 OFFENSE INVOLVING CHILDREN 2005
## 72           70 1755      26 OFFENSE INVOLVING CHILDREN 2006
## 73           59 1755      26 OFFENSE INVOLVING CHILDREN 2007
## 74           49 1755      26 OFFENSE INVOLVING CHILDREN 2008
## 75           34 1755      26 OFFENSE INVOLVING CHILDREN 2009
## 76           52 1755      26 OFFENSE INVOLVING CHILDREN 2010
## 77           52 1755      26 OFFENSE INVOLVING CHILDREN 2011
## 78           39 1755      26 OFFENSE INVOLVING CHILDREN 2012
## 79           49 1755      26 OFFENSE INVOLVING CHILDREN 2013
## 80           43 1755      26 OFFENSE INVOLVING CHILDREN 2014
## 81           32 1755      26 OFFENSE INVOLVING CHILDREN 2015
## 82            1 1780      20 OFFENSE INVOLVING CHILDREN 2010
## 83            1 1780      20 OFFENSE INVOLVING CHILDREN 2011
## 84            2 1780      20 OFFENSE INVOLVING CHILDREN 2012
## 85            2 1780      20 OFFENSE INVOLVING CHILDREN 2014
## 86           16 1780      20 OFFENSE INVOLVING CHILDREN 2015
## 87          540 1780      20 OFFENSE INVOLVING CHILDREN 2016
## 88          417 1780      20 OFFENSE INVOLVING CHILDREN 2017
## 89          398 1780      20 OFFENSE INVOLVING CHILDREN 2018
## 90          336 1780      20 OFFENSE INVOLVING CHILDREN 2019
## 91           67 1780      20 OFFENSE INVOLVING CHILDREN 2020
## 92           11 1780      26 OFFENSE INVOLVING CHILDREN 2001
## 93          166 1780      26 OFFENSE INVOLVING CHILDREN 2002
## 94          352 1780      26 OFFENSE INVOLVING CHILDREN 2003
## 95          559 1780      26 OFFENSE INVOLVING CHILDREN 2004
## 96          465 1780      26 OFFENSE INVOLVING CHILDREN 2005
## 97          504 1780      26 OFFENSE INVOLVING CHILDREN 2006
## 98          613 1780      26 OFFENSE INVOLVING CHILDREN 2007
## 99          624 1780      26 OFFENSE INVOLVING CHILDREN 2008
## 100         658 1780      26 OFFENSE INVOLVING CHILDREN 2009
## 101         617 1780      26 OFFENSE INVOLVING CHILDREN 2010
## 102         649 1780      26 OFFENSE INVOLVING CHILDREN 2011
## 103         628 1780      26 OFFENSE INVOLVING CHILDREN 2012
## 104         628 1780      26 OFFENSE INVOLVING CHILDREN 2013
## 105         608 1780      26 OFFENSE INVOLVING CHILDREN 2014
## 106         516 1780      26 OFFENSE INVOLVING CHILDREN 2015
## 107          38 1780      26 OFFENSE INVOLVING CHILDREN 2016
```

```
dbClearResult(res)
```

Possession of incendiary devices

IUCR crimes 1030 and 1035 are offenses that involve possession of incendiary devices. Recently coded as arson instead of miscellaneous.

```
res <- dbSendQuery(con, "SELECT DISTINCT IUCR,
                                        FBICode,
                                        SUBSTR(Date,7,4) AS year
                        FROM crime
                        WHERE IUCR='1030' OR IUCR='1035'
                        ORDER BY IUCR,FBICode, year")
fetch(res, n = -1)
```

```
##     IUCR FBICode year
## 1  1030        9 2016
## 2  1030        9 2017
## 3  1030        9 2018
## 4  1030        9 2019
## 5  1030       26 2001
## 6  1030       26 2002
## 7  1030       26 2003
## 8  1030       26 2004
## 9  1030       26 2005
## 10 1030       26 2006
## 11 1030       26 2007
## 12 1030       26 2008
## 13 1030       26 2009
## 14 1030       26 2010
## 15 1030       26 2011
## 16 1030       26 2012
## 17 1030       26 2013
## 18 1030       26 2014
## 19 1030       26 2015
## 20 1030       26 2016
## 21 1035        9 2016
## 22 1035       26 2002
## 23 1035       26 2004
## 24 1035       26 2005
## 25 1035       26 2006
## 26 1035       26 2007
## 27 1035       26 2008
## 28 1035       26 2009
## 29 1035       26 2010
## 30 1035       26 2011
## 31 1035       26 2012
```

```
dbClearResult(res)
```

"NON-CRIMINAL" values within PrimaryType

Extra spaces were removed in the phrase.

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```
res <- dbSendQuery(con, "SELECT COUNT(*) as crimecount,
                                IUCR,
                                FBICode,
                                PrimaryType,
                                SUBSTR(Date,7,4) AS year
                        FROM crime
                        WHERE IUCR='5114'
                        GROUP BY IUCR, PrimaryType, FBICode, year")
fetch(res, n = -1)
```

```
##   crimecount IUCR FBICode    PrimaryType year
## 1          3 5114      26 NON - CRIMINAL 2013
## 2         10 5114      26 NON - CRIMINAL 2014
## 3         20 5114      26 NON - CRIMINAL 2015
## 4          5 5114      26 NON - CRIMINAL 2016
## 5          1 5114      26   NON-CRIMINAL 2015
## 6         14 5114      26   NON-CRIMINAL 2016
## 7          7 5114      26   NON-CRIMINAL 2017
## 8         15 5114      26   NON-CRIMINAL 2018
## 9          1 5114      26   NON-CRIMINAL 2019
```

```
dbClearResult(res)
```

Create IUCR, PrimaryType, FBICode lookup table within Chicago crime database

```
if(dbExistsTable(con, "iucr")) dbRemoveTable(con, "iucr")

# import dataframe into SQLite
  dbWriteTable(con, "iucr", a, row.names = FALSE)
  dbListFields(con, "iucr")
```

```
## [1] "IUCR"        "PrimaryType" "FBICode"
```

```
# check if the table is correct
  fetch(dbSendQuery(con, "SELECT * from iucr LIMIT 5"))
```

```
##   IUCR         PrimaryType FBICode
## 1 1153  DECEPTIVE PRACTICE      11
## 2 0281 CRIM SEXUAL ASSAULT       2
## 3 0620            BURGLARY       5
## 4 0810               THEFT       6
## 5 0266 CRIM SEXUAL ASSAULT       2
```

```
# clear rows with redudant and outdated FBI codes and removal of spaces for IUCR 5114
  res <- dbSendQuery(con, "DELETE from iucr
                           WHERE (FBICode = '26') AND
                               (iucr IN ('1030', '1035',
                                         '1710', '1715', '1725', '1780',
```

```
                                             '2091', '2092', '2093'))")
    res <- dbSendQuery(con, "DELETE from iucr
                            WHERE  (iucr = '5114') AND
                                   (PrimaryType = 'NON - CRIMINAL')")

  # check that database has two tables
    dbListTables(con)
```

```
## [1] "crime" "iucr"
```

Add dates in standard format to the database

View date-related values

```
  library(lubridate)

  # View current format
    res <- dbSendQuery(con, "SELECT ID, Date FROM crime")
    data <- fetch(res, n = -1)
    dbClearResult(res)
    data[1:5,]
```

```
##          ID                    Date
## 1 11034701 01/01/2001 11:00:00 AM
## 2 11227287 10/08/2017 03:00:00 AM
## 3 11227583 03/28/2017 02:00:00 PM
## 4 11227293 09/09/2017 08:17:00 PM
## 5 11227634 08/26/2017 10:00:00 AM
```

```
  # View variable classification
    res <- dbSendQuery(con, "PRAGMA table_info(crime)")
    fetch(res, n = -1)
```

```
##    cid              name     type notnull dflt_value pk
## 1    0                ID      INT       0         NA  0
## 2    1        CaseNumber     TEXT       0         NA  0
## 3    2              Date     TEXT       0         NA  0
## 4    3             Block     TEXT       0         NA  0
## 5    4              IUCR     TEXT       0         NA  0
## 6    5       PrimaryType     TEXT       0         NA  0
## 7    6       Description     TEXT       0         NA  0
## 8    7 LocationDescription    TEXT       0         NA  0
## 9    8            Arrest     TEXT       0         NA  0
## 10   9          Domestic     TEXT       0         NA  0
## 11  10              Beat      INT       0         NA  0
## 12  11          District      INT       0         NA  0
## 13  12              Ward      INT       0         NA  0
## 14  13     CommunityArea      INT       0         NA  0
## 15  14           FBICode      INT       0         NA  0
## 16  15       XCoordinate SMALLINT       0         NA  0
```

```
## 17  16      YCoordinate SMALLINT       0       NA  0
## 18  17             Year      INT       0       NA  0
## 19  18        UpdatedOn     TEXT       0       NA  0
## 20  19         Latitude SMALLINT       0       NA  0
## 21  20        Longitude SMALLINT       0       NA  0
```

```
  dbClearResult(res)
```

Transform dates in standard format

```
  data$datefix <- mdy_hms(data$Date)
  data$datefix <- as.character(data$datefix)
  data[1:5,]
```

```
##         ID                  Date            datefix
## 1 11034701 01/01/2001 11:00:00 AM 2001-01-01 11:00:00
## 2 11227287 10/08/2017 03:00:00 AM 2017-10-08 03:00:00
## 3 11227583 03/28/2017 02:00:00 PM 2017-03-28 14:00:00
## 4 11227293 09/09/2017 08:17:00 PM 2017-09-09 20:17:00
## 5 11227634 08/26/2017 10:00:00 AM 2017-08-26 10:00:00
```

```
  data$Date <- NULL #delete original date from the dataframe

  # Create new date table
    if(dbExistsTable(con, "DateFix")) dbRemoveTable(con, "DateFix")
    dbWriteTable(con, "DateFix", data, row.names = FALSE)
    dbListTables(con)
```

```
## [1] "DateFix" "crime"   "iucr"
```

Finalize the crime table with complete information

Create a new crime table

```
  # Rename "crime" table to "crime_old" (will be deleted)
    if(dbExistsTable(con, "crime_old")) dbRemoveTable(con, "crime_old")
    res <- dbSendQuery(con, "ALTER TABLE crime RENAME TO crime_old")
    dbClearResult(res)

  # Create new "crime" table
    a <- dbListFields(con, "crime_old")
    paste(a, collapse = ",")
```

```
## [1] "ID,CaseNumber,Date,Block,IUCR,PrimaryType,Description,LocationDescription,Arrest,Domestic,Beat,
```

```r
res <- dbSendQuery(con, "CREATE TABLE crime AS
                        SELECT crime_old.ID,
                               crime_old.CaseNumber,
                               DateFix.datefix AS date,
                               crime_old.Block,
                               crime_old.IUCR,
                               crime_old.Description,
                               crime_old.LocationDescription,
                               crime_old.Arrest,
                               crime_old.Domestic,
                               crime_old.Beat,
                               crime_old.District,
                               crime_old.Ward,
                               crime_old.CommunityArea,
                               crime_old.XCoordinate,
                               crime_old.YCoordinate,
                               crime_old.Latitude,
                               crime_old.Longitude
                        FROM  crime_old, DateFix
                        WHERE crime_old.ID=DateFix.ID") # link two tables together
dbClearResult(res)

# View new table
res <- dbSendQuery(con, "SELECT *
                        FROM crime")
fetch(res, n = 10)
```

```
##          ID CaseNumber                date                   Block IUCR
## 1  11034701   JA366925 2001-01-01 11:00:00        016XX E 86TH PL 1153
## 2  11227287   JB147188 2017-10-08 03:00:00    092XX S RACINE AVE 0281
## 3  11227583   JB147595 2017-03-28 14:00:00        026XX W 79TH ST 0620
## 4  11227293   JB147230 2017-09-09 20:17:00  060XX S EBERHART AVE 0810
## 5  11227634   JB147599 2017-08-26 10:00:00   001XX W RANDOLPH ST 0281
## 6  11227517   JB138481 2013-02-10 00:00:00 071XX S LAFAYETTE AVE 0266
## 7  11227503   JB146383 2015-01-01 00:01:00  061XX S KILBOURN AVE 1751
## 8  11227508   JB146365 2017-01-01 00:01:00    027XX S WHIPPLE ST 1754
## 9  11022695   JA353568 2017-07-17 10:10:00    021XX W MC LEAN AVE 0810
## 10 11227633   JB147500 2017-12-28 15:55:00  011XX S MICHIGAN AVE 1153
##                              Description LocationDescription Arrest Domestic Beat
## 1  FINANCIAL IDENTITY THEFT OVER $ 300              RESIDENCE  false    false  412
## 2                      NON-AGGRAVATED              RESIDENCE  false    false 2222
## 3                       UNLAWFUL ENTRY                  OTHER  false    false  835
## 4                           OVER $500              RESIDENCE  false    false  313
## 5                      NON-AGGRAVATED            HOTEL/MOTEL  false    false  122
## 6                           PREDATORY              RESIDENCE  false    false  731
## 7        CRIM SEX ABUSE BY FAM MEMBER              RESIDENCE  false     true  813
## 8        AGG SEX ASSLT OF CHILD FAM MBR            RESIDENCE  false    false 1033
## 9                           OVER $500              RESIDENCE  false    false 1432
## 10 FINANCIAL IDENTITY THEFT OVER $ 300                       false    false  123
##    District Ward CommunityArea XCoordinate YCoordinate Latitude Longitude
## 1         4    8            45          NA          NA       NA        NA
## 2        22   21            73          NA          NA       NA        NA
## 3         8   18            70          NA          NA       NA        NA
```

```
## 4        3   20          42         NA        NA        NA        NA
## 5        1   42          32         NA        NA        NA        NA
## 6        7    6          69         NA        NA        NA        NA
## 7        8   13          65         NA        NA        NA        NA
## 8       10   12          30         NA        NA        NA        NA
## 9       14   32          22         NA        NA        NA        NA
## 10       1    2          32         NA        NA        NA        NA
```

```r
    dbClearResult(res)

  # Delete crime_old and DateFix
    res <- dbSendQuery(con, "DROP TABLE crime_old")
    dbClearResult(res)
    res <- dbSendQuery(con, "DROP TABLE DateFix")
    dbListTables(con)
```

```
## [1] "crime" "iucr"
```

```r
  # Clean up unused space
    system.time(res <- dbSendQuery(con, "VACUUM"))
```

```
##    user  system elapsed
##   2.323   7.645  17.106
```

```r
    dbClearResult(res)
```

Join data across tables

Create an "index"

```r
  timeIUCRjoin <- system.time(
    {
      res <- dbSendQuery(con, "SELECT crime.CaseNumber,
                                      iucr.FBIcode
                             FROM crime,
                                  iucr
                             WHERE crime.iucr = iucr.iucr")
      data <- fetch(res, n = -1)
    })
  dbClearResult(res)
  data[1:10,]
```

```
##    CaseNumber FBICode
## 1   JA366925      11
## 2   JB147188       2
## 3   JB147595       5
## 4   JB147230       6
## 5   JB147599       2
## 6   JB138481       2
```

```
## 7       JB146383       17
## 8       JB146383       20
## 9       JB146365        2
## 10      JA353568        6
```

Use INNER JOIN

```
# Tabulate number of Part 1 crimes occuring in each year
  res <- dbSendQuery(con, "SELECT iucr.PrimaryType AS     type,
                                  STRFTIME('%Y', date) AS year,
                                  COUNT(*) AS             crimecount
                          FROM crime
                              INNER JOIN iucr
                              ON crime.iucr = iucr.iucr
                           WHERE FBICode IN ('01A', '02', '03', '04A', '04B',
                                             '05', '06', '07', '09')
                          GROUP BY type, year")
  fetch(res, n = -1)
```

```
##                     type year crimecount
## 1                  ARSON 2001       1010
## 2                  ARSON 2002       1032
## 3                  ARSON 2003        955
## 4                  ARSON 2004        778
## 5                  ARSON 2005        691
## 6                  ARSON 2006        726
## 7                  ARSON 2007        712
## 8                  ARSON 2008        644
## 9                  ARSON 2009        616
## 10                 ARSON 2010        522
## 11                 ARSON 2011        504
## 12                 ARSON 2012        469
## 13                 ARSON 2013        364
## 14                 ARSON 2014        397
## 15                 ARSON 2015        453
## 16                 ARSON 2016        516
## 17                 ARSON 2017        444
## 18                 ARSON 2018        373
## 19                 ARSON 2019        378
## 20                 ARSON 2020         58
## 21              BURGLARY 2001      26011
## 22              BURGLARY 2002      25623
## 23              BURGLARY 2003      25156
## 24              BURGLARY 2004      24564
## 25              BURGLARY 2005      25503
## 26              BURGLARY 2006      24324
## 27              BURGLARY 2007      24858
## 28              BURGLARY 2008      26218
## 29              BURGLARY 2009      26767
## 30              BURGLARY 2010      26422
## 31              BURGLARY 2011      26620
## 32              BURGLARY 2012      22843
```

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```
## 33                         BURGLARY 2013    17895
## 34                         BURGLARY 2014    14569
## 35                         BURGLARY 2015    13183
## 36                         BURGLARY 2016    14287
## 37                         BURGLARY 2017    12998
## 38                         BURGLARY 2018    11745
## 39                         BURGLARY 2019     9623
## 40                         BURGLARY 2020     1442
## 41            CRIM SEXUAL ASSAULT 2001     1804
## 42            CRIM SEXUAL ASSAULT 2002     1831
## 43            CRIM SEXUAL ASSAULT 2003     1600
## 44            CRIM SEXUAL ASSAULT 2004     1575
## 45            CRIM SEXUAL ASSAULT 2005     1553
## 46            CRIM SEXUAL ASSAULT 2006     1475
## 47            CRIM SEXUAL ASSAULT 2007     1552
## 48            CRIM SEXUAL ASSAULT 2008     1540
## 49            CRIM SEXUAL ASSAULT 2009     1435
## 50            CRIM SEXUAL ASSAULT 2010     1370
## 51            CRIM SEXUAL ASSAULT 2011     1488
## 52            CRIM SEXUAL ASSAULT 2012     1431
## 53            CRIM SEXUAL ASSAULT 2013     1321
## 54            CRIM SEXUAL ASSAULT 2014     1359
## 55            CRIM SEXUAL ASSAULT 2015     1410
## 56            CRIM SEXUAL ASSAULT 2016     1580
## 57            CRIM SEXUAL ASSAULT 2017     1644
## 58            CRIM SEXUAL ASSAULT 2018     1654
## 59            CRIM SEXUAL ASSAULT 2019     1594
## 60            CRIM SEXUAL ASSAULT 2020      273
## 61            MOTOR VEHICLE THEFT 2001    27549
## 62            MOTOR VEHICLE THEFT 2002    25121
## 63            MOTOR VEHICLE THEFT 2003    22748
## 64            MOTOR VEHICLE THEFT 2004    22805
## 65            MOTOR VEHICLE THEFT 2005    22497
## 66            MOTOR VEHICLE THEFT 2006    21818
## 67            MOTOR VEHICLE THEFT 2007    18573
## 68            MOTOR VEHICLE THEFT 2008    18881
## 69            MOTOR VEHICLE THEFT 2009    15482
## 70            MOTOR VEHICLE THEFT 2010    19029
## 71            MOTOR VEHICLE THEFT 2011    19388
## 72            MOTOR VEHICLE THEFT 2012    16492
## 73            MOTOR VEHICLE THEFT 2013    12582
## 74            MOTOR VEHICLE THEFT 2014     9912
## 75            MOTOR VEHICLE THEFT 2015    10068
## 76            MOTOR VEHICLE THEFT 2016    11293
## 77            MOTOR VEHICLE THEFT 2017    11383
## 78            MOTOR VEHICLE THEFT 2018     9984
## 79            MOTOR VEHICLE THEFT 2019     8979
## 80            MOTOR VEHICLE THEFT 2020     1434
## 81 OFFENSE INVOLVING CHILDREN 2001      364
## 82 OFFENSE INVOLVING CHILDREN 2002      370
## 83 OFFENSE INVOLVING CHILDREN 2003      380
## 84 OFFENSE INVOLVING CHILDREN 2004      353
## 85 OFFENSE INVOLVING CHILDREN 2005      338
## 86 OFFENSE INVOLVING CHILDREN 2006      306
```

```
## 87  OFFENSE INVOLVING CHILDREN 2007        307
## 88  OFFENSE INVOLVING CHILDREN 2008        218
## 89  OFFENSE INVOLVING CHILDREN 2009        217
## 90  OFFENSE INVOLVING CHILDREN 2010        206
## 91  OFFENSE INVOLVING CHILDREN 2011        181
## 92  OFFENSE INVOLVING CHILDREN 2012        164
## 93  OFFENSE INVOLVING CHILDREN 2013        148
## 94  OFFENSE INVOLVING CHILDREN 2014        152
## 95  OFFENSE INVOLVING CHILDREN 2015        177
## 96  OFFENSE INVOLVING CHILDREN 2016        152
## 97  OFFENSE INVOLVING CHILDREN 2017        228
## 98  OFFENSE INVOLVING CHILDREN 2018        216
## 99  OFFENSE INVOLVING CHILDREN 2019        166
## 100 OFFENSE INVOLVING CHILDREN 2020         39
## 101                    ROBBERY 2001      18441
## 102                    ROBBERY 2002      18522
## 103                    ROBBERY 2003      17332
## 104                    ROBBERY 2004      15978
## 105                    ROBBERY 2005      16047
## 106                    ROBBERY 2006      15968
## 107                    ROBBERY 2007      15450
## 108                    ROBBERY 2008      16703
## 109                    ROBBERY 2009      15980
## 110                    ROBBERY 2010      14274
## 111                    ROBBERY 2011      13983
## 112                    ROBBERY 2012      13485
## 113                    ROBBERY 2013      11820
## 114                    ROBBERY 2014       9799
## 115                    ROBBERY 2015       9638
## 116                    ROBBERY 2016      11960
## 117                    ROBBERY 2017      11880
## 118                    ROBBERY 2018       9679
## 119                    ROBBERY 2019       7988
## 120                    ROBBERY 2020       1467
## 121                      THEFT 2001      99265
## 122                      THEFT 2002      98327
## 123                      THEFT 2003      98875
## 124                      THEFT 2004      95463
## 125                      THEFT 2005      85684
## 126                      THEFT 2006      86240
## 127                      THEFT 2007      85156
## 128                      THEFT 2008      88433
## 129                      THEFT 2009      80975
## 130                      THEFT 2010      76756
## 131                      THEFT 2011      75149
## 132                      THEFT 2012      75462
## 133                      THEFT 2013      71531
## 134                      THEFT 2014      61565
## 135                      THEFT 2015      57341
## 136                      THEFT 2016      61615
## 137                      THEFT 2017      64368
## 138                      THEFT 2018      65253
## 139                      THEFT 2019      62342
## 140                      THEFT 2020       9392
```

```
    dbClearResult(res)
```

SUBQUERIES

Results from one query as part of another query

```
# Determine whether a block shows up multiple times in initial query
res <- dbSendQuery(con, "SELECT COUNT(*), Block
                             FROM
                                (SELECT DISTINCT Block,
                                                 XCoordinate,
                                                 YCoordinate
                                 FROM crime)
                             GROUP BY Block")
fetch(res, n = 20)
```

```
##    COUNT(*)          Block
## 1       28   0000X E 100 PL
## 2       22   0000X E 100 ST
## 3       67 0000X E 100TH PL
## 4       55 0000X E 100TH ST
## 5        7   0000X E 101 PL
## 6       21   0000X E 101 ST
## 7       58 0000X E 101ST PL
## 8       49 0000X E 101ST ST
## 9       13   0000X E 102 PL
## 10      13   0000X E 102 ST
## 11      65 0000X E 102ND PL
## 12      59 0000X E 102ND ST
## 13       8   0000X E 103 PL
## 14      12   0000X E 103 ST
## 15      34 0000X E 103RD PL
## 16      54 0000X E 103RD ST
## 17       8   0000X E 104 ST
## 18      36 0000X E 104TH ST
## 19       8   0000X E 105 ST
## 20      36 0000X E 105TH ST
```

```
    dbClearResult(res)
```

Exercises

Which district has the most thefts?

```
res <-dbSendQuery(con, "SELECT    COUNT(*) as crimecount,
                                  District
                        FROM      crime
                                  INNER JOIN iucr ON iucr.iucr
```

```
                           WHERE      iucr.PrimaryType = 'THEFT'
                           GROUP BY  District")
  a <- fetch(res, n = -1)
  dbClearResult(res)

  a[which.max(a$crimecount), ]
```

```
##   crimecount District
## 9   6715702        8
```

Count number of assaults, since 2010, that occured on Fridays and Saturdays, after 6pm

Report date, day of week, hou of the day, and year.

```
    res <- dbSendQuery(con, "SELECT   COUNT(*),
                                      DATE(crime.Date) AS crimedate,
                                      CAST(STRFTIME('%w', crime.Date) AS INTEGER) AS weekday,
                                      CAST(STRFTIME('%H', crime.Date) AS INTEGER) AS hour,
                                      CAST(STRFTIME('%Y', crime.Date) AS INTEGER) AS year
                             FROM     crime
                                      INNER JOIN iucr ON crime.iucr = iucr.iucr
                             WHERE    iucr.PrimaryType = 'ASSAULT' AND
                                      year >= 2010 AND
                                      (weekday >= 5) AND (weekday <= 6) AND
                                      hour >= 18
                             GROUP BY  crimedate, weekday, hour, year")
  fetch(res, n = -1)
```

```
##      COUNT(*)  crimedate weekday hour year
## 1           2 2010-01-01       5   18 2010
## 2           1 2010-01-01       5   19 2010
## 3           1 2010-01-01       5   22 2010
## 4           2 2010-01-01       5   23 2010
## 5           2 2010-01-02       6   18 2010
## 6           3 2010-01-02       6   19 2010
## 7           2 2010-01-02       6   20 2010
## 8           1 2010-01-02       6   21 2010
## 9           5 2010-01-02       6   22 2010
## 10          1 2010-01-02       6   23 2010
## 11          2 2010-01-08       5   18 2010
## 12          6 2010-01-08       5   19 2010
## 13          4 2010-01-08       5   20 2010
## 14          3 2010-01-08       5   21 2010
## 15          4 2010-01-08       5   22 2010
## 16          1 2010-01-08       5   23 2010
## 17          5 2010-01-09       6   19 2010
## 18          6 2010-01-09       6   20 2010
## 19          4 2010-01-09       6   21 2010
## 20          2 2010-01-09       6   23 2010
## 21          3 2010-01-15       5   18 2010
## 22          1 2010-01-15       5   19 2010
```

```
## 23          2 2010-01-15     5   20 2010
## 24          2 2010-01-15     5   21 2010
## 25          1 2010-01-15     5   22 2010
## 26          2 2010-01-15     5   23 2010
## 27          3 2010-01-16     6   18 2010
## 28          2 2010-01-16     6   19 2010
## 29          4 2010-01-16     6   20 2010
## 30          3 2010-01-16     6   21 2010
## 31          6 2010-01-16     6   22 2010
## 32          1 2010-01-16     6   23 2010
## 33          3 2010-01-22     5   18 2010
## 34          3 2010-01-22     5   19 2010
## 35          2 2010-01-22     5   20 2010
## 36          3 2010-01-22     5   21 2010
## 37          2 2010-01-22     5   22 2010
## 38          3 2010-01-22     5   23 2010
## 39          6 2010-01-23     6   18 2010
## 40          1 2010-01-23     6   19 2010
## 41          3 2010-01-23     6   21 2010
## 42          2 2010-01-23     6   22 2010
## 43          4 2010-01-23     6   23 2010
## 44          1 2010-01-29     5   19 2010
## 45          4 2010-01-29     5   20 2010
## 46          3 2010-01-29     5   21 2010
## 47          1 2010-01-29     5   22 2010
## 48          3 2010-01-29     5   23 2010
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## 5805         5 2020-02-22        6   19 2020
## 5806         2 2020-02-22        6   20 2020
## 5807         2 2020-02-22        6   22 2020
## 5808         1 2020-02-22        6   23 2020
## 5809         2 2020-02-28        5   18 2020
## 5810         4 2020-02-28        5   20 2020
## 5811         5 2020-02-28        5   21 2020
## 5812         2 2020-02-28        5   22 2020
## 5813         2 2020-02-28        5   23 2020
## 5814         3 2020-02-29        6   18 2020
## 5815         3 2020-02-29        6   19 2020
## 5816         1 2020-02-29        6   20 2020
## 5817         1 2020-02-29        6   21 2020
## 5818         1 2020-02-29        6   23 2020
## 5819         2 2020-03-06        5   18 2020
## 5820         3 2020-03-06        5   19 2020
## 5821         4 2020-03-06        5   20 2020
```

```
dbClearResult(res)
```