Solutions for Dealing with database Challenge

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1. Import "GeneratorRefilling.sqlite" and "3057.dat" and change the header of "3057.dat" to ['num','name','surname','date']

- Import "GeneratorRefilling.sqlite"

```
library(RSQLite)
conn <- dbConnect(SQLite(),'GeneratorRefilling.sqlite')
dtables<-dbListTables(conn) # list tables in db
query <- 'SELECT * From RefillingGen2018'
dGenR<- dbGetQuery(conn,query)
```

- Import "3057.dat"

```
tab3057<-read.delim('3057.dat')
colnames(tab3057)<-c('num','name','surname','date')
head(tab3057,3)
```

```
##   num     name surname                date
## 1   2     Nick Wahlberg 2013-05-26 14:47:57.62
## 2   3       Ed   Chase 2013-05-26 14:47:57.62
## 3   4 Jennifer   Davis 2013-05-26 14:47:57.62
```

2. Create a table in the database for "3057.dat" called Tab3057

```
dbCreateTable(conn,'Tab3057',tab3057)
dbtable<-dbListTables(conn)
dbtable
```

```
## [1] "RefillingGen2018" "Tab3055"          "Tab3057"          "Workshop"
```

3. Delete the "Tab3055" table

```
dbRemoveTable(conn,"Tab3055")
dbtable<-dbListTables(conn)
dbtable
```

```
## [1] "RefillingGen2018" "Tab3057"          "Workshop"
```

4. Add a row to Tab3057 table

```
query<-"INSERT INTO Tab3057('num','name','surname','date') VALUES ('5','Peal','Johnny Walker','2014-01-2
dbSendQuery(conn,query)
```

```
## <SQLiteResult>
##   SQL  INSERT INTO Tab3057('num','name','surname','date') VALUES ('5','Peal','Johnny Walker','2014-01
##   ROWS Fetched: 0 [complete]
```

```
##         Changed: 1
```

5. Delete the 3rd row of Tab3057

```
query<-"DELETE FROM Tab3057 WHERE num='5'"
dbSendQuery(conn,query)
```

```
## Warning: Closing open result set, pending rows
```

```
## <SQLiteResult>
##   SQL  DELETE FROM Tab3057 WHERE num='5'
##   ROWS Fetched: 0 [complete]
##         Changed: 1
```

6. Add column 'Time' to Tab3057

```
query<-"ALTER TABLE Tab3057 ADD Time Varchar(25)"
dbSendQuery(conn,query)
```

```
## Warning: Closing open result set, pending rows
```

```
## <SQLiteResult>
##   SQL  ALTER TABLE Tab3057 ADD Time Varchar(25)
##   ROWS Fetched: 0 [complete]
##         Changed: 0
```