

# Solutions for Dealing with database Challenge

Ebude Yolande

## 1. Import “GeneratorRefilling.sqlite” and “3057.dat”

- 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')
head(tab3057,3)
```

```
##   X1 Penelope  Guinness X2013.05.26.14.47.57.62
## 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(X1, Penelope, Guinness) VALUES ('7', 'Denzel', 'Malta') "
```

```
dbSendQuery(conn, query)
```

```
## <SQLiteResult>
##   SQL  INSERT INTO Tab3057(X1, Penelope, Guinness) VALUES ('7', 'Denzel', 'Malta')
##   ROWS Fetched: 0 [complete]
##           Changed: 1
```

## 5. Delete the 3rd row of Tab3057

```
query<-"DELETE FROM Tab3057 WHERE X1='7'"
dbSendQuery(conn,query)
```

```
## Warning: Closing open result set, pending rows
## <SQLiteResult>
##   SQL  DELETE FROM Tab3057 WHERE X1='7'
##   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
```