Desafio 5

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AUTHOR
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library(RSQLite)
db = dbConnect(SQLite(), "disco.db")
db
<SQLiteConnection>
  Path: \\smb\ra277151\Downloads\disco.db
  Extensions: TRUE
dbListTables(db)
 [1] "albums"
                       "artists"
                                          "customers"
                                                             "employees"
 [5] "genres"
                       "invoice_items"
                                          "invoices"
                                                             "media_types"
                       "playlists"
                                          "sqlite_sequence" "sqlite_stat1"
 [9] "playlist_track"
[13] "tracks"
dbListFields(db, 'albums')
[1] "AlbumId" "Title"
                          "ArtistId"
albumdb = dbGetQuery(db, 'SELECT * FROM albums')
head(albumdb)
  AlbumId
                                           Title ArtistId
        1 For Those About To Rock We Salute You
1
2
        2
                               Balls to the Wall
                                                         2
3
        3
                               Restless and Wild
                                                         2
4
        4
                               Let There Be Rock
                                                         1
5
        5
                                        Big Ones
                                                         3
6
        6
                              Jagged Little Pill
                                                         4
dim(albumdb)
[1] 347
sql = 'SELECT trackid, name, composer, unitprice FROM tracks ORDER BY unitprice'
res = dbGetQuery(db, sql)
head(res)
  TrackId
                                              Name
1
        1 For Those About To Rock (We Salute You)
2
        2
                                 Balls to the Wall
                                   Fast As a Shark
3
        3
```

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Restless and Wild

```
Princess of the Dawn
5
        6
6
                            Put The Finger On You
                                                                 Composer
1
                               Angus Young, Malcolm Young, Brian Johnson
2
                                                                      <NA>
                     F. Baltes, S. Kaufman, U. Dirkscneider & W. Hoffman
3
4 F. Baltes, R.A. Smith-Diesel, S. Kaufman, U. Dirkscneider & W. Hoffman
5
                                               Deaffy & R.A. Smith-Diesel
6
                               Angus Young, Malcolm Young, Brian Johnson
  UnitPrice
1
       0.99
2
       0.99
3
       0.99
4
       0.99
5
       0.99
6
       0.99
sql = 'SELECT city FROM customers ORDER BY city'
ex3a = dbGetQuery(db, sql)
head(ex3a)
       City
1 Amsterdam
2 Bangalore
3
     Berlin
     Berlin
5 Bordeaux
6
     Boston
dim(ex3a)
[1] 59 1
sql = 'SELECT DISTINCT city FROM customers ORDER BY city'
ex3b = dbGetQuery(db, sql)
head(ex3b)
       City
1 Amsterdam
2 Bangalore
     Berlin
3
4 Bordeaux
    Boston
6 Brasília
dim(ex3b)
[1] 53 1
dbGetQuery(db, 'SELECT name, albumid FROM tracks WHERE albumid=1')
```

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```
Name AlbumId
1 For Those About To Rock (We Salute You)
2
                      Put The Finger On You
                                                   1
3
                            Let's Get It Up
                                                   1
4
                           Inject The Venom
5
                                 Snowballed
                                                   1
6
                                 Evil Walks
                                                   1
7
                                     C.O.D.
                                                   1
8
                         Breaking The Rules
                                                   1
9
                  Night Of The Long Knives
                                                   1
                                 Spellbound
                                                   1
10
sql = paste('SELECT name, albumid, mediatypeid FROM tracks',
 'WHERE mediatypeid IN (1, 2)',
 'ORDER BY name LIMIT 5')
dbGetQuery(db, sql)
                                                          Name AlbumId
                                                           "40"
                                                                    239
1
2 "Eine Kleine Nachtmusik" Serenade In G, K. 525: I. Allegro
                                                                    281
3
                                                       #1 Zero
                                                                     11
4
                                                      #9 Dream
                                                                    255
5
                                               'Round Midnight
                                                                     48
 MediaTypeId
1
2
            2
3
            1
4
            2
5
            1
sql = paste('SELECT trackid, name, albumid FROM tracks',
'WHERE albumid IN',
 '(SELECT albumid FROM albums WHERE artistid==12)',
 'LIMIT 5')
dbGetQuery(db, sql)
  TrackId
                               Name AlbumId
      149
                      Black Sabbath
1
                                          16
2
      150
                         The Wizard
                                          16
3
      151 Behind The Wall Of Sleep
                                          16
4
      152
                             N.I.B.
                                          16
5
                         Evil Woman
      153
                                          16
sql = "SELECT trackid, name FROM tracks WHERE name GLOB '?ere*'"
ex4 = dbGetQuery(db, sql)
ex4
  TrackId
                                   Name
      324
1
                                 Pererê
2
     1132
                               Serenity
3
     1452
               Were Do We Go From Here
4
     1740
                                 Sereia
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```
5
     2198
                                 Jeremy
6
     2479
               Here's To The Atom Bomb
7
     2791
                            Hereditário
8
     3042 Here I Am (Come And Take Me)
9
     3133
                        Here I Go Again
sql = "SELECT trackid, name FROM tracks WHERE name GLOB '*[0-9]*'"
ex5 = dbGetQuery(db, sql)
head(ex5)
  TrackId
                                 Name
1
      109
                              #1 Zero
2
      122
                       20 Flight Rock
3
      132
                   13 Years Of Grief
4
      343 Communication Breakdown(2)
5
      347 Communication Breakdown(3)
6
      348
            I Can't Quit You Baby(2)
sql = 'SELECT albumid, COUNT(trackid) FROM tracks GROUP BY albumid'
ex6 = dbGetQuery(db, sql)
head(ex6)
  AlbumId COUNT(trackid)
        1
1
                       10
2
        2
                        1
3
        3
                        3
4
        4
                        8
5
        5
                       15
6
        6
                       13
sql = paste('SELECT albumid, COUNT(trackid)',
 'FROM tracks GROUP BY albumid',
 'HAVING albumid=1')
dbGetQuery(db, sql)
  AlbumId COUNT(trackid)
        1
                       10
1
sql = paste('SELECT trackid, name, title FROM tracks',
 'INNER JOIN albums ON albums.albumid=tracks.albumid')
ex7 = dbGetQuery(db, sql)
head(ex7)
  TrackId
                                               Name
        1 For Those About To Rock (We Salute You)
1
2
        6
                             Put The Finger On You
3
        7
                                   Let's Get It Up
4
        8
                                  Inject The Venom
5
        9
                                         Snowballed
       10
                                         Evil Walks
6
```

1 For Those About To Rock We Salute You

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Title

2 For Those About To Rock We Salute You

- 3 For Those About To Rock We Salute You
- 4 For Those About To Rock We Salute You
- 5 For Those About To Rock We Salute You
- 6 For Those About To Rock We Salute You

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