

Desafio05ME315

Author

Gabriella de Oliveira Argenton155

```
db = dbConnect(SQLite(), "//smb/ra255677/Documentos/disco.db")
```

```
db
```

```
<SQLiteConnection>
```

```
Path: \\smb\ra255677\Documentos\disco.db
```

```
Extensions: TRUE
```

```
dbListTables(db)
```

```
[1] "albums"           "artists"           "customers"          "employees"
[5] "genres"           "invoice_items"      "invoices"
"media_types"
[9] "playlist_track"    "playlists"          "sqlite_sequence"
"sqlite_stat1"
[13] "tracks"
```

```
dbListFields(db,
```

```
'albums')
```

```
[1] "AlbumId" "Title" "ArtistId"
```

```
album_db = dbGetQuery(db,
```

```
'SELECT * FROM albums')
```

```
head(album_db)
```

	AlbumId	Title	ArtistId
1	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(album_db)
```

```
[1] 347 3
```

Desafio 05:

Selecione as colunas trackid, name, composer e unitprice. Ordene o objeto resultante por unitprice.

```
sql <- "
SELECT trackid, name, composer, unitprice
FROM tracks
ORDER BY unitprice
"
```

```
res <- dbGetQuery(db, sql)
datatable(res)
```

Quais são as cidades de todos os clientes, ordenadas por nome de cidade?

```
sql = 'SELECT city FROM customers ORDER BY city'
ex3a = dbGetQuery(db, sql)
head(ex3a)
```

```
      City
1 Amsterdam
2 Bangalore
3   Berlin
4   Berlin
5  Bordeaux
6   Boston
```

Quais são todas as músicas do álbum 1?

```
dbGetQuery(db,
'SELECT name, albumid FROM tracks WHERE albumid=1')
```

```
      Name AlbumId
1 For Those About To Rock (We Salute You)      1
2              Put The Finger On You           1
3              Let's Get It Up                 1
4              Inject The Venom                 1
5              Snowballed                      1
6              Evil Walks                      1
7              C.O.D.                          1
8              Breaking The Rules              1
9              Night Of The Long Knives        1
10             Spellbound                      1
```

Limitando-se a 5 registros, após ordenação por nome, quais são os nomes, ID de álbum e ID de mídia de músicas com mídias de tipo 1 ou 2?

```
sql = paste('SELECT name, albumid, mediatypeid FROM tracks'
,
'WHERE mediatypeid IN (1, 2)'
,
'ORDER BY name LIMIT 5')
dbGetQuery(db, sql)
```

```
      Name AlbumId
1      "40"      239
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      1
2      2
3      1
4      2
5      1
```

Quais são as músicas e identificadores de faixa e álbum produzidas pelo artista que identificador 12?

```
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
1	149	Black Sabbath	16
2	150	The Wizard	16
3	151	Behind The Wall Of Sleep	16
4	152	N.I.B.	16
5	153	Evil Woman	16

Quais são as faixas cujos nomes começam com qualquer caracter seguido de 'ere' e terminam com qualquer expressão?

```
sql = "SELECT trackid, name FROM tracks WHERE name GLOB '?ere*'"
dbGetQuery(db, sql)[1:5,]
```

	TrackId	Name
1	324	Pererê
2	1132	Serenity
3	1452	Were Do We Go From Here
4	1740	Sereia
5	2198	Jeremy

Quais são as faixas cujos nomes possuem algum dígito?

```
sql = "SELECT trackid, name FROM tracks WHERE name GLOB '*[0-9]*'"
dbGetQuery(db, sql)[1:5,]
```

	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)

Quantas faixas por disco?

```
sql = 'SELECT albumid, COUNT(trackid) FROM tracks GROUP BY albumid'
dbGetQuery(db, sql)[1:5,]
```

	AlbumId	COUNT(trackid)
1	1	10
2	2	1
3	3	3
4	4	8
5	5	15

Quantas faixas por disco para o album 1?

```
sql = paste('SELECT albumid, COUNT(trackid) '
',
'FROM tracks GROUP BY albumid'
',
'HAVING albumid=1')
dbGetQuery(db, sql)
```

	AlbumId	COUNT(trackid)
1	1	10

Quais são os nomes de cada faixa com os respectivos títulos dos álbuns?

```
sql = paste('SELECT trackid, name, title FROM tracks'
',
'INNER JOIN albums ON albums.albumid=tracks.albumid')
dbGetQuery(db, sql)[1:5,]
```

	TrackId	Name	Title
1	1	For Those About To Rock (We Salute You)	1 For Those About To Rock We Salute You
2	6	Put The Finger On You	2 For Those About To Rock We Salute You
3	7	Let's Get It Up	3 For Those About To Rock We Salute You
4	8	Inject The Venom	4 For Those About To Rock We Salute You
5	9	Snowballed	5 For Those About To Rock We Salute You