

desafio5

```
library("RSQLite")
```

```
setwd("C:/Users/dipis/OneDrive/Área de Trabalho/Pastas/Matérias/ME315")
```

```
db <- dbConnect(SQLite(), 'disco.db')
```

```
db
```

```
<SQLiteConnection>
```

```
Path: C:\Users\dipis\OneDrive\Área de Trabalho\Pastas\Matérias\ME315\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"
```

```
db_albums <- dbGetQuery(db, ' SELECT * from albums')
head(db_albums)
```

	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(db_albums)
```

```
[1] 347  3
```

```
res <- dbGetQuery(db, 'SELECT trackid, name FROM tracks ORDER BY name')
head(res)
```

	TrackId	Name
1	3027	"40"
2	2918	"?"
3	3412	"Eine Kleine Nachtmusik" Serenade In G, K. 525: I. Allegro
4	109	#1 Zero
5	3254	#9 Dream
6	602	'Round Midnight

```
ex3a <- dbGetQuery(db, 'SELECT city FROM customers ORDER BY city')
head(ex3a)
```

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

```
ex3b <- dbGetQuery(db, 'SELECT DISTINCT city FROM customers ORDER BY city')
head(ex3b)
```

	City
1	Amsterdam

```

2 Bangalore
3   Berlin
4  Bordeaux
5   Boston
6  Brasília

```

```

alb1 <- dbGetQuery(db, 'SELECT Name, albumid FROM tracks where albumid = 1')
alb1

```

	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

```

head(dbGetQuery(db, 'SELECT name, albumid, mediatypeid FROM tracks WHERE mediatypeid IN (1,2)

```

	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

```

head(dbGetQuery(db, 'SELECT trackid, name, albumid FROM tracks WHERE albumid IN (SELECT albumid

```

	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

```
head(dbGetQuery(db, 'SELECT trackid, name FROM tracks WHERE name GLOB "?ere*"))
```

	TrackId	Name
1	324	Pererê
2	1132	Serenity
3	1452	Were Do We Go From Here
4	1740	Sereia
5	2198	Jeremy
6	2479	Here's To The Atom Bomb

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

	AlbumId	COUNT(trackid)
1	1	10

```
# Quais são os nomes de cada faixa com os respectivos títulos dos álbuns?
head(dbGetQuery(db, 'SELECT trackid, name, title FROM tracks INNER JOIN albums ON albums.albumid=trackid'))
```

	TrackId	Name
1	1	For Those About To Rock (We Salute You)

2	6	Put The Finger On You
3	7	Let's Get It Up
4	8	Inject The Venom
5	9	Snowballed
6	10	Evil Walks

Title

1	For Those About To Rock We Salute You
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