Aula11/09

AUTHOR

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```
library(RSQLite)
db = dbConnect(SQLite(), '~/disco.db')
db
```

```
<SQLiteConnection>
  Path: \\smb\ra185276\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"
```

```
dbListFields(db, 'tracks')
```

```
[1] "TrackId"      "Name"          "AlbumId"       "MediaTypeId"   "GenreId"
[6] "Composer"     "Milliseconds"  "Bytes"         "UnitPrice"
```

```
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
```

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)
head(res)
```

	TrackId	Name
1	1	For Those About To Rock (We Salute You)
2	2	Balls to the Wall
3	3	Fast As a Shark
4	4	Restless and Wild
5	5	Princess of the Dawn
6	6	Put The Finger On You

	Composer
1	Angus Young, Malcolm Young, Brian Johnson
2	<NA>
3	F. Baltes, S. Kaufman, U. Dirkscneider & W. Hoffman
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

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)')
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
6	154	Sleeping Village	16
7	155	Warning	16
8	156	Wheels Of Confusion / The Straightener	17
9	157	Tomorrow's Dream	17
10	158	Changes	17
11	159	FX	17
12	160	Supernaut	17
13	161	Snowblind	17
14	162	Cornucopia	17
15	163	Laguna Sunrise	17
16	164	St. Vitus Dance	17
17	165	Under The Sun/Every Day Comes and Goes	17