Querying SQLite from R: Takeaways ⤴

Syntax

- Importing the RSQLite and DBI libraries:

  ```
  library(RSQLite)

  library(DBI)
  ```

- Connecting to a SQLite database:

  ```
  conn <- dbConnect(SQLite(), "jobs.db")
  ```

- Listing the tables in the database:

  ```
  dbListTables(conn)
  ```

- Executing a query with

  ```
  dbGetQuery()
  ```

  and

  ```
  dbSendQuery()
  ```

  :

  ```
  dbGetQuery(conn, "SELECT * FROM recent_grads")

  dbSendQuery(conn, "SELECT * FROM recent_grads")
  ```

- Looking at the results from

  ```
  dbSendQuery()
  ```

  :

  ```
  dbFetch(results)
  ```

- Fetching the first five results:

  ```
  dbFetch(results, n = 5)
  ```

- Clearing the result of

  ```
  dbSendQuery()
  ```

  ```
  dbClearResult(results)
  ```

- Closing the connection:

```
dbDisconnect(conn)
```

Concepts

- SQLite is a database that doesn't require a standalone server and stores an entire database on a single computer.
- We can interact with SQLite database using `RSQLite` and `DBI`
- We write our SQL queries as character vectors to pass into `DBI` functions
- Always clear your results and close connections when you are finished

Resources

- [SQLite version 3](#)
- [RSQLite documentation](#)
- [DBI documentation](#)