

# Querying SQLite from R: Takeaways

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## 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](#)

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