

# Querying Databases with SQL and Python: Takeaways



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## Syntax

- To connect to an SQLite database:

```
import sqlite3  
conn = sqlite3.connect('mydatabase.db')
```

- To execute a SELECT query and retrieve the results as a pandas dataframe:

```
import pandas as pd  
query = 'SELECT * FROM mytable'  
data = pd.read_sql_query(query, conn)
```

- To close the database connection:

```
conn.close()
```

## Concepts

- `sqlite3` is a Python library for connecting to SQLite databases and executing SQL queries.
- `pd.read_sql_query()` is a pandas method that can be used to execute SQL queries and return the results as a pandas dataframe.
- Always close the database connection when you're done with it to avoid locking it.

## Resources

- [Pandas documentation](#)
- [Matplotlib documentation](#)
- [SQLite documentation](#)