CA 4: Part A - Database Design & SQL Querying

R and SQL code to query a SQLite database

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Connect to SQLite Database

```
# connect to the local SQLite database
conn <- dbConnect(RSQLite::SQLite(), dbname = "daie_ca4_data.sqlite")</pre>
```

Database Queries

1. SELECT with WHERE, LIKE, and OR

Table 1: List of Team Members with Names Containing 'oo' or 'ia'

First Name	Last Name
Lillian	Griffin
Alivia	Cannon
Annabelle	Hood
Oliwier	Brooks

2. SELECT with DISTINCT and ORDER BY

Table 2: List of Distinct Asset Types

Asset Types
3D Character
3D Object
Environment

3. Inner Join

Table 3: List of Assets and associated Projects

Asset Description	Asset Type	Project Name
Medieval Knight	3D Character	Game 2
Horse	3D Character	Game 2
Wooden Table	3D Object	Game 2
Spaceship	3D Object	Game 1
Milky Way	Environment	Game 1

4. Subquery with SELECT

Table 4: List of Team Members in Team 2

First Name	Last Name	Role
Alexandra Alivia Tyrell Annabelle Oliwier	Foley Cannon Hendrix Hood Brooks	Team Lead Programmer Tester Artist 3D Modeller

5. SELECT across a Date Range

Table 5: List of Projects due by end of Q2 2023

Project Name	Delivery Date
Game 1	2023-06-23

Close Database Connection

close the connection to the database to avoid hitting a connection limit
dbDisconnect(conn)