 DATA RETRIEVAL (SELECT statements)

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-- 1. SELECT \* to retrieve all columns from a table

-- This query gets all records and all columns from the Authors table.

SELECT \* FROM Authors;

-- 2. SELECT specific columns

-- This query only gets the first and last names of all authors.

SELECT first\_name, last\_name FROM Authors;

-- 3. Use WHERE to filter results

-- This query finds the book with the title '1984'.

SELECT \* FROM Books

WHERE title = '1984';

-- 4. Use AND and OR for multiple conditions

-- This query finds books published between 1940 AND 1960.

SELECT \* FROM Books

WHERE publication\_year >= 1940 AND publication\_year <= 1960;

-- This query finds all patrons named 'Alice' OR 'Bob'.

SELECT \* FROM Patrons

WHERE first\_name = 'Alice' OR first\_name = 'Bob';

-- 5. Use LIKE for pattern matching

-- This query finds all books with 'the' in their title.

-- The '%' is a wildcard that matches any sequence of characters.

SELECT \* FROM Books

WHERE title LIKE '%the%';

-- This query finds all patrons whose first name starts with 'B'.

SELECT \* FROM Patrons

WHERE first\_name LIKE 'B%';

-- 6. Use BETWEEN for a range of values

-- This is a cleaner way to write the previous query using AND.

-- It finds all books published between the years 1940 and 1960 (inclusive).

SELECT \* FROM Books

WHERE publication\_year BETWEEN 1940 AND 1960;

-- 7. Use ORDER BY to sort the results

-- This query sorts all books by their publication year, from oldest to newest (ASC is the default).

SELECT \* FROM Books

ORDER BY publication\_year ASC;

-- This query sorts the books by title in descending order (Z to A).

SELECT \* FROM Books

ORDER BY title DESC;