Reporting with SQL Part 4 Notes

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1 Overview

2 Retrieving Results in a Particular Order

- ORDER BY
 - Allows to retrieve items in a particular order
 - Syntax: SELECT * FROM table name ORDER BY column name [ASC—DESC];

3 Retrieving Results in a Particular Order

• Syntax: SELECT * FROM table name ORDER BY column name [ASC—DESC], column 2 name [ASC—DESC], ..., column n name [ASC—DESC];

Example:

```
SELECT * FROM books ORDER BY title ASC;

SELECT * FROM products WHERE name = "Sonic T-Shirt" ORDER BY stock_count DESC;

SELECT * FROM users ORDER BY signed_up_on DESC;

SELECT * FROM countries ORDER BY population DESC;
```

```
SELECT * FROM books ORDER BY
                                          genre ASC,
13
                                          title ASC;
14
15
16
      SELECT * FROM books ORDER BY
                                          genre ASC,
17
                                          year_published DESC;
18
19
20
      SELECT * FROM users ORDER BY
                                          last_name ASC,
21
                                          first_name ASC;
22
```

4 Exercise 1

• Solution included in exercise_1.sql

5 Retrieving Results in a Particular Order

- LIMIT
 - Syntax (SQLite, PostgreSQL, MySQL): SELECT columns name FROM table name ... LIMIT # of rows;
 - Must be placed at the end

6 Exercise 2

• Solution included in exercise_2.sql

7 Paging Thrugh Results

- OFFSET
 - Syntax 1 (SQLite, PostgreSQL, MySQL): SELECT ;columns; FROM table name LIMIT # of rows OFFSET skipped rows;

- Syntax 2 (SQLite, PostgreSQL, MySQL): SELECT ¡columns¿ FROM table name LIMIT skipped rows, # of rows;
- Is based on number of rows, and NOT by pages (i.e. LIMIT 10 OFFSET 10 is on page 2)
- Is useful when creating multi-page reports, blog archive, or listing search results

8 Exercise 3

• Solution included in exercise_3.sql