# SQL Basics Part 3 Notes

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# 1 Searching Tables with 'WHERE'

- WHERE clause
  - **Syntax:** SELECT columns FROM table name WHERE condition;
  - Syntax (Condition): Columns Operator Value
- Equality Operator
  - Syntax: SELECT columns FROM table name WHERE column name = value;

#### **Examples:**

```
SELECT * FROM contacts WHERE first_name = "Andrew";

SELECT first_name, email FROM users WHERE last_name = "Chalkley";

SELECT name AS "Product Name" FROM products WHERE stock_count = 0;

SELECT title "Book Title" FROM books WHERE year_published = 1999;
```

- Inequality Operator
  - Syntax: SELECT columns FROM table name WHERE column name != value;

#### **Examples:**

```
SELECT * FROM contacts WHERE first_name != "Kenneth";

SELECT first_name, email FROM users WHERE last_name != "L:one";

SELECT name AS "Product Name" FROM products WHERE stock_count != 0;

SELECT title "Book Title" FROM books WHERE year_published != 2015;
```

- Greater than/ Less than Operator
  - Syntax (less than): SELECT columns FROM table name WHERE column name < value;
  - Syntax (greater than): SELECT columns FROM table name WHERE column name > value;
- Cheat Sheet: Link

### 2 Exercise 1

• Solution included in exercise\_1.sql

# 3 Filtering by Comparing Values

- Syntax (Less than): SELECT columns FROM table name WHERE column name < value;
- Syntax (Less than or equal): SELECT columns FROM table name WHERE column name <= value;
- Syntax (Greater than): SELECT columns FROM table name WHERE column name > value;
- Syntax (Greater than or equal): SELECT columns FROM table name WHERE column name >= value;

#### Example:

```
SELECT first_name, last_name FROM users WHERE date_of_birth < '
1998-12-01';

SELECT title AS "Book Title", author AS Author FROM books WHERE
year_released <= 2015;

SELECT name, description FROM products WHERE price > 9.99;

SELECT title FROM movies WHERE release_year >= 2000;
```

### 4 Exercise 2

• Solution included in exercise\_2.sql

## 5 Filtering on More than One Condition

- Is used when filtering with multiple conditions
- Can be done using AND and/or OR operator
- Syntax (AND): SELECT ¡columns¿ FROM ¡table¿ WHERE ¡condition 1¿ AND ¡condition 2¿ ...;
- Syntax (OR): SELECT ¡columns¿ FROM ¡table¿ WHERE ¡condition 1¿ OR ¡condition 2¿ ...;

#### **Examples:**

```
SELECT username FROM users WHERE last_name = "Chalkley" AND first_name = "Andrew";

SELECT * FROM products WHERE category = "Games Consoles" AND price < 400;

SELECT * FROM movies WHERE title = "The Matrix" OR title = "The Matrix Reloaded" OR title = "The Matrix Revolutions";
```

```
SELECT country FROM countries WHERE population < 1000000 OR population > 100000000;
```

# 6 Exercise 3

• Solution included in exercise\_3.sql