

SQL Basics Part 3 Notes

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June 3, 2020

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;*

```
1  SELECT * FROM contacts WHERE first_name = "Andrew";
2
3
4  SELECT first_name, email FROM users WHERE last_name = "Chalkley";
5
6
7  SELECT name AS "Product Name" FROM products WHERE stock_count = 0;
8
9
10 SELECT title "Book Title" FROM books WHERE year_published = 1999;
11
```

- Inequality Operator

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

```
1  SELECT * FROM contacts WHERE first_name != "Kenneth";
2
3
4  SELECT first_name, email FROM users WHERE last_name != "L:one";
5
6
7  SELECT name AS "Product Name" FROM products WHERE stock_count !=
8  0;
```

```
9
10  SELECT title "Book Title" FROM books WHERE year_published != 2015;
11
```

- 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:

```
1  SELECT first_name, last_name FROM users WHERE date_of_birth < '
2  1998-12-01';
3
4  SELECT title AS "Book Title", author AS Author FROM books WHERE
5  year_released <= 2015;
6
7  SELECT name, description FROM products WHERE price > 9.99;
8
9
10 SELECT title FROM movies WHERE release_year >= 2000;
11
```

4 **Exercise 2**

- Solution included in *exercise_2.sql*