Capitalization

Always use uppercase for the reserved keywords like **SELECT** and **WHERE**.

Keep all non-reserved words in lowercase.

RESERVED WORD REFERENCE - http://www.sqlstyle.guide/#reserved-keyword-reference

Commas

If you are selecting multiple columns start each one on a new line with a comma in front. With the exception of the first line, adding the comma in front allows you to easily comment out lines without breaking the query.

```
SELECT customer_id
    , timestamp
    , price
```

Spaces

Although not exhaustive always include spaces:

- before and after equals (=) WHERE customer id = 1022456376
- after commas (,) ('Dining In', To Go')
- adding spaces inside and outside parentheses SELECT (price * 3) FROM

Joins

Always fully specify the join type. "JOIN" should be written as "INNER JOIN" Always use a join keyword instead of an "IN" clause or an equality join (using equal signs)

Semicolon

Put on its own line, not on the very end

```
WHERE price > 5.50
```

Aliasing and & Naming

- The correlation name should be the first letter of each word in the object's name.
 - o If there is already a correlation with the same name then append a number.

```
INNER JOIN purchases p
ON p.fk_customer_id = c.pk_customer_id
INNER JOIN customer contactinfo cci
```

• Always include the AS keyword—makes it easier to read as it is explicit.

```
SELECT customer_id as renamed_customer_id
```

- Only use letters, numbers and underscores in names.
- All text should be lowercase except for reserved keywords

Newlines

Keep the length to a maximum of 80 characters—anything longer gets harder to read Always include newlines/vertical space for the following things:

• Adding another AND or OR

```
WHERE amount >= 9.99
AND dining_option = 'Dining In'
AND new customer yn = 'Y'
```

- Starting a reserved keyword statement (SELECT, FROM, WHERE)
- Writing another entirely new query

```
WHERE price > 5.50;
SELECT ...
```

Wanting to isolate a separate code chunk to help readability as an isolated piece of logic

```
FROM purchases p
(newline here)
INNER JOIN customers c
    ON p.fk_customer_id = c.pk_customer_id
(newline here)
INNER JOIN customer_contactinfo cci
    ON c.pk customer id = cci.fk customer id
```

Adding the semicolon to close the query (see below)

Dates & Timestamps

- Always compare dates columns with other date columns or a value as a date
 - Never compare a string with a date! It might result in weird behavior!
- Format hard coded dates as "YYYY-MM-DD"

Other

Do not use database server specific keywords where an ANSI SQL keyword already exists performing the same function. This helps to make code more portable.

References - This style guide is an adaptation of:

- 1. http://www.sqlstyle.guide/
- 2. http://solutioncenter.apexsql.com/rules-of-sql-formatting-commas-and-spacing-in-t-sql/
- 3. http://solutioncenter.apexsql.com/sql-formatting-standards-capitalization-indentation-comments-parenthesis/

Resources:

Hacker Rank is an excellent resource to learn SQL for all skill levels:

https://www.hackerrank.com/domains/sql/select