SQL Style Guide

This style guide is for use within the following courses: DBS211, 311, 610, and 710.

The following is a standard SQL style guide that will allow SQL to be consistent, easy to read, and comply with industry standards.

This guide was developed from the base Mozilla online standards found at: [SQL Style Guide - Mozilla Data Documentation](https://docs.telemetry.mozilla.org/concepts/sql_style.html)

# Styles

ALL SQL is to be written utilizing the following rules:

## Capitalization

* All reserved keywords, excluding functions, are to be written in ALL CAPS.   
  (Examples: SELECT, UPDATE, INSERT, DELETE, FROM, WHERE, JOIN, INNER, OUTER, LEFT, RIGHT, GROUP BY, ORDER BY, INTO, AS, LIMIT, TOP, OFFSET, BEGIN, END, GO, CREATE, ALTER, VIEW, TABLE, PROCEDURE, etc.)
* All built-in functions should be Pascal Case (starts with a capital)
* All user defined objects, such as tables, columns, views, aliases, etc., should be either all lower case using \_ (underscore) to fill in spaces.

SELECT   
 field\_name1 AS alias1,   
 field\_name2,  
 field\_name3  
FROM tablename  
WHERE  
 field\_name2 > somevalue  
ORDER BY field\_name2 DESC;

## Line Breaks and Indenting

* All Root Keywords are to begin on a new line (SELECT, FROM, WHERE, ORDER BY, JOIN, GROUP BY)
* If there is only a single parameter, then it can follow on the same line, otherwise, parameters are each placed on their own line and indented.
* All indents are to be exactly 4 spaces
* Always include a semi-colon at the end of each statement

## Joins

* Always include the join type rather than relying on the default join.
* Multi-table joins should be indented

SELECT  
 table1.field\_name1 AS alias1,   
 table1.field\_name2,  
 table2.field\_name3

FROM  
 table1 INNER JOIN table 2  
 ON table1.field\_name1 = table2.field\_name3  
WHERE  
 table1.field\_name2 > somevalue  
ORDER BY table1.field\_name2 DESC;

## Parentheses

If the content of parentheses span multiple lines, then

* the opening parenthesis should terminate the previous line
* the closing parenthesis should be on its own line aligned with the line that starting the code block
* the contents of the parentheses should all be indented relative to the external code block

CREATE VIEW view\_name AS (  
 SELECT \*   
 FROM table\_name  
);

## Booleans

Boolean operators should always be placed at the beginning of a new line:

SELECT   
 <fieldlist>  
FROM <table\_name>  
WHERE  
 <condition1>  
 AND <condition2>  
 OR <condition3>  
ORDER BY <fieldname>;