**SQL Module 1 Challenge Worksheet**

The Challenge Activity for this module asks you to answer the questions below. Use this space to record your responses. Then save and submit this document to Canvas as instructed in your online classroom.

1. What is a database?

A database is a collection of data. It can consist of several tables that contain information.

1. What does a database do?

A database allows users to extract the data that is relevant to the request.

1. What is a relational database management system (RDMS)?

An RDMS is a software system that allows to define, create, maintain and control access to relational databases. It consists of tables that can be linked together or are related based on common data.

1. What do relational databases allow you to do?

Relational databases allow users to build relationships or connections of the data between tables and link that data together.

1. What is one difference between a spreadsheet and a database?

A spreadsheet provides more capabilities to do statistical analysis.

1. What are columns called in a database?

Fields

1. What are rows called in a database?

Records

1. Do databases house duplicate data?

No, which is why there is stronger data integrity in a database than a spreadsheet.

1. What are the unique ids called in a database?

Primary keys

1. What is SQL?

SQL is a programming language for storing and processing information in a relational database.

1. SQL is what kind of database language?

[Insert answer here.]

1. What is a query?

A query is a specific request for information within a database.

1. What is a statement?

In SQL, a statement is a set of instructions, comprised of identifiers, parameters, variables, names and data types. CREATE or SELECT are examples of a SQL statement.

1. When would you want to use SQL?

You would want to use SQL when you need to pull data from a database and data wrangle. SQL would be useful when you are on the job and need to create tables and wrangle data to answer or interpret business objectives.