OSDA Quiz

Class 1 – Data Manipulation & Management – Overview

1. True or False: Do the following statements describe “a need for Data Manipulation & Management? “
   1. Creating new datasets \_\_\_\_
   2. Combine disparate data sets \_\_\_\_
   3. Perform common queries, aggregations, and joins \_\_\_\_
   4. Adding, removing, or modifying data \_\_\_\_
   5. Extracting and Storing Data \_\_\_\_
   6. Automating Data Flows \_\_\_\_
2. A database is a collection of information that is organized so that it can be easily \_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_.
   1. accessed, managed, updated
   2. searched, found, indexed
   3. manipulated, segregated, segregated
   4. cleaned, scrubbed, polished
3. What are the advantages of using a database to store data?
   1. Security & Access control
   2. Data Persistence & Integrity
   3. Data Sharing
   4. All of the above

1. What is SQL? (provide a brief description)
2. What are the columns/rows of a relational DB table referred as?
   1. Dictionaries
   2. Column A, Row 1
   3. Fields & records
   4. None of the Above
3. What SQL statement allows you to obtain data from an existing table?
   1. Select
   2. Update
   3. Drop
   4. Create
4. What do the initials “ETL” stand for ?
5. Open-End - List at least 5 SQL data types:

9) True or False: The following are clauses used in the SQL programming language?

* 1. Select \_\_\_\_
  2. Get \_\_\_\_
  3. From \_\_\_\_
  4. Do \_\_\_\_
  5. Where/Having \_\_\_\_
  6. Obtain \_\_\_\_
  7. Join \_\_\_\_
  8. Order By \_\_\_\_
  9. Group By \_\_\_\_

10) True or False: The following are aggregate functions used in SQL

1. Subtract \_\_\_\_
2. Sum \_\_\_\_
3. Substring \_\_\_\_
4. Avg \_\_\_\_
5. Count \_\_\_\_
6. Datediff \_\_\_\_
7. Min/Max \_\_\_\_

10) Where can you learn more about SQL? List your favorite reference!

**Answer Key**: 1a-1f) T, 2) A, 3) D, 4) Structured Query Language - Structured Query Language (SQL) is a standard computer language for relational database management and data manipulation, 5) C, 6) A, 7) Extract/Transform/Load, 8) Any data type from the following categories: Numeric, Date/Time, Char/String, Binary & Misc (Json, Xml, Blob)

9) T,F,T,F,T,F,T,T,T 10) F, T, F, T, T, F, T