

ISTE-722 Database Connectivity and Access
Practice Exercise 2 - Connection Methodologies and Drivers

Assignment Purpose: Practice establishing database connections with different DBMS's.

This assignment may be written in Java, C#, or PHP. The databases being accessed are MySQL and SQL Server.

1. *Create a data layer class file named "SQLServerDatabase".*
 - a. *The SQLServerDatabase class file must have attributes for each of the connection parameters. These parameters can be set in the constructor or when they are declared.*
 - b. *There should also be a "connection" attribute to hold the DB connection object.*
 - c. *There should be a public "connect" method. This method will attempt to connect to the database. If successful, it should set the connection attribute and return true. If unsuccessful, it should return false.*
 - d. *Finally, there should be a "close" method that closes the connection and returns true or false depending on the success of the close.*
2. *Create another class file named "MySQLDatabase" and repeat steps a-d for connecting to a MySQL database.*
3. *In another class, create a "main" method that instantiates both the database classes, opens a connection, closes the connection, and reports the results to the user. This class is the only class that displays information to the user.*

For MS SqlServer, connect to the Jobs database on theodore.ist.rit.edu. User id is "330User", password is "330Password".

For MySQL, connect to the network_ser database on simon.ist.rit.edu. User id is "330User", password is "330Password".

For Java, be sure to use the following drivers (others may not work):

- *mysql-connector-java-5.1.48.jar*
- *mssql-jdbc-7.0.0.jre8.jar*

This assignment will be used in all future assignments.

On submitting your assignment, make sure that you provide all necessary files in one zip file. (If you are using C#, be sure to submit the entire .Net solution structure.) Submissions lacking necessary files to view the code or execute will not be accepted or graded!