

CSC343 Worksheet 8

June 24, 2020

1. **Exercise 9.5.1:** Repeat Exercise 9.3.1, but write the code using C with CLI calls.

a) **Notes:**

- Using Call-Level Interface
 - Uses host language to connect to and access a database
 - CLI replaces embedded SQL
 - e.g.
 1. JDBC (Java)
 2. Standard SQL/CLI
 3. PHP
- Standard SQL/CLI
 - Is database CLI for C
 - Included in file *sqlcli.h*
 - Creates deals with four kinds of records
 1. Environment handle
 - * Prepares one or more connections to database server
 - * **SQLHENV** does this job
 2. Connections
 3. Statements
 4. Descriptions
- Processing Statements
- Fetching Data From
- Passing Parameters to Queries

2. **Exercise 9.5.2:** Repeat Exercise 9.3.2, but write the code using C with CLI calls
3. **Exercise 9.6.1:** Repeat Exercise 9.3.1, but write the code using JAVA using JDBC.
4. **Exercise 9.6.2:** Repeat Exercise 9.3.2, but write the code using JAVA using JDBC.

5. **Exercise 9.7.1:** Repeat Exercise 9.3.1, but write the code using PHP.
6. **Exercise 9.7.2:** Repeat Exercise 9.3.2, but write the code using PHP.
7. **Exercise 9.7.3:** In Example 9.31 we exploited the feature of PHP that strings in double-quotes have variables expanded. How essential is this feature? Could we have done something analogous in JDBC? If so, how?