Bossier Parish Community College
Master Syllabus

Course Prefix and Number: CTEC 270   **Credit Hours:** 3-3-0

Course Title: Relational Database Coding

Course Prerequisites: CTEC 102

Textbook(s): Joel Murach, Murach's MySQL(3rd edition), Mike Murach and Associates, 2019.
ISBN: ISBN 978-1-943872-36-7

Software: My SQL Server, MySQL WorkBench

Course Description: This course covers the fundamentals of database management systems, in particular, relational database systems. The course also teaches students how to use SQL to create, maintain, store, retrieve, and manipulate data.

Learning Outcomes:
At the end of this course, the student will:
  A. be able to use Development tools-MySQL Workbench, MySQL Monitor, MySQL command Line Client;
  B. execute data retrieval and manipulation in databases;
  C. design and implement Relational Database Systems;
  D. data definition and data analysis;
  E. coding and scripting of relational databases; and
  F. to manage and secure databases.

To achieve the learning outcomes, the student will or will be able to:
(The letter designations at the end of each statement refer to the learning outcome(s).)
  1. manage the database files (A);
  2. work with queries (B);
  3. view and modify databases (A);
  4. create, modify and query tables using SQL (B);
  5. insert, update and delete data using SQL (B);
  6. code summary queries, subqueries in SQL (B);
  7. use functions in SQL (B);
  8. design a relational DBMS (C);
  9. design and implement procedures (E)
  10. create and maintain databases, tables and sequences with SQL statements (C).
  11. administer, manage, and secure the SQL Server(F)

Course Requirements:
1. A student must successfully complete the course with an average of 70% or above on the combined learning outcomes.
2. Each student is expected to attend classes regularly; excessive unexcused absences constitute grounds for suspension (refer to the student handbook for attendance policies).

Course Grading Scale:
A = 90 - 100
B = 80 - 89
C = 70 - 79
D = 60 - 69
F =   0 - 59

Attendance Policy: The college attendance policy is available at
http://www.bpcc.edu/catalog/current/academicpolicies.html

Course Fees: This course is accompanied with an additional non-refundable fee for supplemental materials, laboratory supplies, software licenses, certification exams, and/or clinical fees.

Nondiscrimination Statement: Bossier Parish Community College does not discriminate on the basis of race, color, national origin, gender, age, religion, qualified disability, marital status, veteran's status, or sexual orientation in admission to its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of its operations. Bossier Parish Community College does not discriminate in its hiring or employment practices.

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