

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(3<sup>rd</sup> 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:**

- To pass the course, student must achieve a course average of 70% or above.
- Students must have access to a computer (not mobile device), Microsoft Office, and the Internet to complete the assignments. Computer, software, and the Internet are available to students on campus during scheduled computer lab times and in the Learning Commons located in the BPCC Library.

- Students are required to use BPCC's LMS and are encouraged to use the BPCC Library to research topics and employment opportunities.

**Course Grading Scale:**

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

**Attendance Policy:**

Each student is expected to attend class regularly; excessive unexcused absences constitute grounds for suspension. Refer to the student handbook for [Attendance Policy](#).

**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.

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**Coordinator for SECTION 504 AND ADA**

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**Equity/Compliance Coordinator**

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