COMP B21: DATABASE SYSTEMS – DESIGN AND STRUCTURED QUERY LANGUAGE (SQL)
BAKERSFIELD COLLEGE – FALL 2017
Business Education 2, M 6:00 – 9:10 p.m. (CRN: 71471)

Email Address: pwhitney@bakersfieldcollege.edu
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Canvas: inside.bakersfieldcollege.edu
Office: Business 6 (B6)
Office Hours: M 10:30-11am, 2:25-3:55pm, 5-6pm
W 10:30-11am, 2:25-3:25pm (on these dates: 8/30, 9/13, 9/27, 10/11, 10/25, 11/8, 11/29)

Course Description:
This course emphasizes “best practices” for relational database design (modeling) and the use of Structured Query Language (SQL) for database manipulation. Normalization, data diagramming, concurrency and other key database concepts will be discussed. The use of Microsoft Access, MySQL, Microsoft SQL Server, and other database management systems will be used to demonstrate concepts. Upon successful completion of this course, students will be able to design real world databases and manipulate them using SQL.

Recommended:
Reading – one level prior to transfer

Course Materials Needed:
- Murach’s MySQL, 2nd Edition
  Author: Murach, Mike
  ©2015 ISBN-13 9781890774820
- A Flashdrive is recommended, especially if you will be using the campus computer labs for assignments
- Three (3) green 100-answer test scan sheets (FORM NO. 882-ES or equivalent). Keep these in pristine condition!

Course Tasks:
Your grade will be based on the following:

<table>
<thead>
<tr>
<th>Assignment Type</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>5+ assignments @ 20 points each</td>
<td>30%</td>
</tr>
<tr>
<td>1 Final Project</td>
<td>25%</td>
</tr>
<tr>
<td>3 Exams @ 50 points each</td>
<td>45%</td>
</tr>
</tbody>
</table>
Follow these policies on assignments or points will be deducted:

- **Clearly** list on your assignment your name, and the assignment name
- Do not use paper that has torn edges; i.e., from a spiral notebook
- On multi-page assignments, neatly put the pages in order and staple the pages in the upper left corner. Do not fold pages or use paper clips to combine pages. *I WILL NOT BRING A STAPLER TO CLASS!!!*
- **Do not** use a cover page for your assignments or put them in a folder or binder
- Up to 20% will be deducted from your score if you do not follow these policies

PowerPoint slides of the lectures presented in class and all assignments and handouts will be distributed through the Private Page web address listed at the top of this syllabus. The slides will usually be available for downloading at least 12 hours before class. It is recommended that you print them and bring them to class and make YOUR notes on them. The slides by themselves convey little information and will be of minimal assistance in your exam preparations. Your notes add meaning to them and WILL help you prepare for the exam.

**Grading:**

Grades will be based on the percentage of total semester points earned, computed as follows:

- 90%+ = A, 80-89.99% = B, 70-79.99% = C, 60-69.99% = D, below 60% = F. (*I do not curve grades*)
- **Borderline Grades will be determined by class participation!!!** Participation that adds quality to the class discussions will improve your grade.

**YOU** should keep track of your grade throughout the semester. Keep all assignments as proof of grades received in the RARE case of bookkeeping errors on my part.

**Student Learning Outcomes** (The focus of the course and the expectations of both the student and instructor)

- The student will be able to design and produce fully normalized databases from real world scenarios. The design will include the use of modern data modeling tools and diagrams.
- The student will produce SQL commands that query and manipulate databases using DDL and DML.
- The student will choose the appropriate database design principles and create a working end-user database system that automates a traditional manual system. The system will include end-user documentation.

**Academic Dishonesty:**

Unfortunately, the subject of academic dishonesty must be discussed for those who are inclined toward such activities. The campus’s policy is listed in the campus catalog. Please review it for specifics. There is no need to engage in any unethical behavior in this class! If you need help, my door is always open. For those who need some explanation of what academic dishonesty is…

Academic dishonesty involves acts that may subvert or compromise the integrity of the educational process. Included is any act by which a student gains or attempts to gain an academic advantage for himself/herself, or another, by misrepresenting his/her, or another’s work or by interfering with the completion, submission, or evaluation of work. These include, but are not limited to, accomplishing or attempting any of the following acts:
• Using any materials that are not authorized by the instructor for use during an examination
• Copying from another student's paper during an examination
• Collaborating (i.e., talking, passing notes and/or signals, etc.) during an examination with any other person by giving or receiving information without specific permission of the instructor
• Stealing, buying or otherwise obtaining information about a course’s graded material
• Substituting for another person or permitting any other person to substitute for oneself to take an examination
• Submitting another person's work as yours either in its original or altered form
• Giving someone else your work to fulfill his/her assignment
• Plagiarizing

Late assignments, Make-up Exams and time allowed for Exams:

Assignments are due at the BEGINNING of the class session. I will announce, “Last call”, and after that announcement assignments will not be accepted. You may always arrange to turn in assignments in advance of the scheduled times.

Exams will be timed. You will not be given extra time to complete an exam if you start late. I do not allow makeup exams. You can always arrange to take an exam in advance.

At my discretion, I may allow for an exception to these policies. Be prepared to provide verifiable proof for your reason for an exception.

Extra Credit:

There will be no opportunity to earn extra credit.

Attendance policy:

Attendance is MANDATORY. The attendance policy as outlined in the campus catalog will be enforced. Students must notify me in the event of class absences. Any student that is absent for more than two weeks without prior instructor notification may be dropped from the course. If you do not want to be in the class then YOU must drop yourself from the course. I will not retroactively drop you if you miss one of the “last day to drop the course” dates. These dates are listed in class schedule and in the online campus schedule “Important Dates” section. It is also expected that students will notify me before class in the RARE instance of needing to leave class early. Students, not notifying me in advance, will be marked absent upon their early departure.

Classroom Etiquette

The basic rule underlying classroom etiquette is having consideration for others. The following list of guidelines has been assembled to help you understand what this means.

• Turn off your mobile phones and respond to them during breaks or AFTER class – this includes texting. If you leave during class I will assume you are responding to your phone and that you are requesting that I deduct points from your grade. The amount of points will be at my discretion and will increase relative to the distraction that you cause to others.
• The use of computing devices or other electronics during lecture is restricted to those tasks that directly support the lecture. No other use will be allowed.
• On the rare occasion that you cannot arrange childcare, well-behaved children are welcome in class. Bring them something quiet to occupy their time and please sit in the back of the classroom.
• Do not conduct personal conversations during class. Even though you may be speaking in a very low tone, your voice will carry and disturb others around you. Please conduct your conversations outside of the classroom.
• No eating in the classroom.

Special Considerations

Students with disabilities needing accommodation, including those who had an IEP in high school, should make requests to Disabled Students Programs and Services in CSS 10, or Delano room 1001 (661-395-4334, (661-720-2000 Delano)). All requests for accommodations require appropriate advance notice to avoid a delay in services. Please discuss approved accommodations with me so we can work together to ensure your access and success at BC.
## COMP B21 - READING AND CLASS SCHEDULE

<table>
<thead>
<tr>
<th>Date</th>
<th>Reading</th>
<th>Topic(s) and Items of Interest</th>
</tr>
</thead>
<tbody>
<tr>
<td>M 8/21</td>
<td>Orientation</td>
<td>Orientation &amp; Intro to Topics</td>
</tr>
<tr>
<td></td>
<td>Ch. 1, 2, 3</td>
<td>Intro to relational databases and SQL. MySQL Workbench. Retrieving data from a single table.</td>
</tr>
<tr>
<td>M 8/28</td>
<td>NO CLASS</td>
<td>Labor Day Holiday</td>
</tr>
<tr>
<td>F 9/1</td>
<td>*** Last day for refunds for semester length classes</td>
<td></td>
</tr>
<tr>
<td>Su 9/5</td>
<td>*** Last day to drop for semester length classes w/o receiving W</td>
<td></td>
</tr>
<tr>
<td>M 9/11</td>
<td>Ch. 3</td>
<td>Retrieving data from a single table</td>
</tr>
<tr>
<td>M 9/18</td>
<td>Ch. 4, 6</td>
<td>Retrieving data from more than one table (joining). Summary queries and Subqueries.</td>
</tr>
<tr>
<td>M 9/25</td>
<td>Ch. 5, 7, 8, 9</td>
<td>Subqueries. Inserting, updating and deleting data. Working with data types. Using functions.</td>
</tr>
<tr>
<td>M 10/2</td>
<td>Exam #1</td>
<td>Exam #1 - In class and hands on</td>
</tr>
<tr>
<td>M 10/9</td>
<td>Ch. 10</td>
<td>Designing databases</td>
</tr>
<tr>
<td>M 10/16</td>
<td>Ch. 10, 11</td>
<td>Designing databases. Creating databases, tables, and indexes.</td>
</tr>
<tr>
<td>F 10/20</td>
<td>*** Last day to withdraw from class and receive a W</td>
<td></td>
</tr>
<tr>
<td>M 10/23</td>
<td>Ch. 10, 11, 12</td>
<td>Designing databases. Creating databases, tables, and indexes. Creating views.</td>
</tr>
<tr>
<td>M 10/30</td>
<td>Ch. 10, 11, 12</td>
<td>Designing databases. Creating databases, tables, and indexes. Creating views.</td>
</tr>
<tr>
<td>M 11/6</td>
<td>Exam #2</td>
<td>Exam #2 - In class and hands on</td>
</tr>
<tr>
<td>M 11/13</td>
<td>Ch. 13, 14, 15, 16</td>
<td>Stored program development. Language skills for stored programs. Transactions and locking. Creating stored procedures and functions. Triggers and events.</td>
</tr>
<tr>
<td>M 11/20</td>
<td>Ch. 17, 18, 19</td>
<td>Database Administration. Securing a database. Backing up and restoring a database.</td>
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<tr>
<td>M 11/27</td>
<td></td>
<td>Lab time working on final projects</td>
</tr>
<tr>
<td>M 12/4</td>
<td>6 – 7:50pm</td>
<td>Exam #3 - Comprehensive Final Exam - In class and hands on</td>
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*** READ THE MATERIAL FOR THE WEEK BEFORE THE CLASS ***

This syllabus is TENTATIVE and subject to change.

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