CIT 1401: SQL Fundamentals

Instructor Information

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Note: The best way to reach me is by email. I will respond to your inquiries within 24 hours on weekdays and 48 hours on weekends. You may email to set up a face-to-face visit at my office or Blackboard Collaborate session.

Course Description

Introduction to the SQL (Structured Query Language) database language within the context of an Oracle database, including composing queries to retrieve desired information, advanced queries to manipulate index tables, and transactions to save or cancel data entry process.

Program Outcomes

The Programming Fundamentals program is designed for grades 9-12 high-school students interested in understanding basic coding principles associated with current day programming languages. Students completing this program should be able to demonstrate an understanding of the following.

• Illustrate entry level ability to construct a program from a series of simple instructions using the Python programming language.
• Write basic Java language syntax, apply foundational Java concepts and be able to construct simple Java programs.
• Demonstrate entry level ability to write basic SQL scripts to extract desired information from an Oracle database.
• Discover the .NET environment and illustrate the fundamentals of developing Windows and web-based applications.

Course Goals

Students taking this course will illustrate a basic ability to write SQL scripts to identify data from an Oracle database. Students should be able to interpret appropriate SQL commands, basic functions and transactions, in order to extract relevant data from the database.
Technology Requirements

**Hardware**
Students will need access to a reliable computer with a high-speed Internet connection, sufficient disk space (typically 10 GB), processor (2 GHz), and memory (1 GB).

Students must have a webcam and microphone to participate in online video and chat options as required throughout course assignments.

Students are recommended to connect to the Internet via hardwire (Ethernet) connection rather than relying on wireless.

**Software**
- **Notepad ++** (PC Users)
- **Text Wrangler** (MAC Users)
  (Not MS Word!) *Any code turned in, in a Microsoft Word will NOT be graded!*

Also, the latest versions of Adobe PDF Reader, Adobe Flash, Apple QuickTime, and Java are required.

**Textbook/Material Requirements**
**Required:** Lynda.com subscription. We will sign up for this membership as a class during Week 1. *The cost will be $0.*

Course Outline

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<th>Content</th>
<th>Assignments &amp; Projects</th>
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<td>Introductions</td>
<td>Discussion Board 1, Quiz 1</td>
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<td>Week 2</td>
<td>Database Definitions, Types and DBMS Structures</td>
<td>Discussion Board 2, Quiz 2</td>
</tr>
<tr>
<td>Week 3</td>
<td>SELECT, FROM, WHERE SQL Statements</td>
<td>Discussion Board 3, Quiz 3</td>
</tr>
<tr>
<td>Week 4</td>
<td>JOIN SQL Statements</td>
<td>Discussion Board 4, Quiz 4</td>
</tr>
<tr>
<td>Week 5</td>
<td>UPDATE, INSERT, DELETE SQL Statements</td>
<td>Discussion Board 5, Quiz 5, Mid-Term Exam</td>
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<tr>
<td>Week 6</td>
<td>SQL Aliases</td>
<td>Discussion Board 6, Quiz 6</td>
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<tr>
<td>Week 7</td>
<td>SQL Basic Functions</td>
<td>Discussion Board 7, Quiz 7</td>
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<tr>
<td>Week 8</td>
<td>SQL Transactions</td>
<td>Discussion Board 8, Quiz 8</td>
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<tr>
<td>Week 9</td>
<td>Course Review</td>
<td>Final Exam</td>
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Course Level Student Learning Outcomes

Upon completion of this course, students should be able to demonstrate an understanding of the following:
• Summarize key principles and components of database structures.
• Write basic SQL queries using standard SELECT, FROM and WHERE clauses.
• Demonstrate how to JOIN multiple database tables in order to collect relevant data using unique identifiers.
• Manipulate data within a database using UPDATE, INSERT and DELETE statements.
• Illustrate how to utilize aliases to produce temporary SQL tables in the relational database.
• Identify basic SQL functions including built-in (e.g. COUNT, MAX, MIN, AVG etc.) and customized strings.
• Apply basic standard commands to perform SQL transactions including COMMIT, ROLLBACK, SAVEPOINT and SET TRANSACTION.

Course Requirements
The outcomes will be achieved through reading in the textbook and other assigned material, lectures, participating in discussions, completing assignments, and a final comprehensive exam during the final week.

Quizzes & Exams
There will be eight weekly quizzes, a mid-term exam and a final exam. Each weekly quiz will be worth 20 points (160 points total). A mid-term exam will be scheduled during Week 5 and will be worth 128 points. A final exam worth 192 points at the end of the semester will also be administered. The timed quizzes/exams cut off at the closing time (Blackboard time); therefore, students must allow themselves plenty of time for the test.

Make-up quizzes & exams are not available.

Discussion Boards
The responses in the various discussion forums will be used to calculate the grade for class participation and to assess the student’s understanding of the International Business concepts covered in the class. This grade will be worth 160 points at the end of the semester (20 points per discussion board).

Discussion forums must be answered in a timely manner; this means that discussion questions must be answered prior to due date which is listed on the Assignment Sheet. Please refer to the Discussion Forum Rules link in the course.

Discussion forums will open each week on Monday. Students are required to respond to the question and then respond to at least two other student responses.
Class participation is a very important part of the learning process in this course. Quality comments in discussion boards possess one or more of the following characteristics:

- Offers a different and unique, but relevant, perspective;
- Contributes to moving the discussion and analysis forward;
- Builds on other comments;

**Note:** All coursework must be turned in on the date required in the schedule. No late work will be accepted. See late work policy.

**Student Responsibilities**

Students will be expected to check announcements on a daily basis and all coursework will be submitted via Blackboard rather than by e-mail (unless directed to do so).

**Grading & Grading Scale**

The assessment for this course will consist of various quizzes, discussion boards, assignments a comprehensive final exam and a case study of a chosen country. I do not drop grades, give bonus points, nor do I curve. I weight each category as follows:

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discussion Boards</td>
<td>25%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>25%</td>
</tr>
<tr>
<td>Mid-Term Exam</td>
<td>20%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>30%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
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Anticipated percentages and points for grading are as follows:

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Grade</th>
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<tbody>
<tr>
<td>90-100%</td>
<td>A</td>
</tr>
<tr>
<td>80-89%</td>
<td>B</td>
</tr>
<tr>
<td>70-79%</td>
<td>C</td>
</tr>
<tr>
<td>60-69%</td>
<td>D</td>
</tr>
<tr>
<td>&lt;50%</td>
<td>F</td>
</tr>
</tbody>
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**Note:** Incomplete Grades will only be given in situations approved by the university with appropriate paperwork. Please remember these grades become Fs after a certain period of time.
Support Services
Here are ways to get help in your online courses.

Technical Support

ITS Helpdesk
24 hours/7 days per week
Phone: (870) 972-3933
Email: onlinehelp@astate.edu

The ITS Helpdesk can help with Blackboard Learn, general technology and email issues. They can be reached via phone or email.

Writing Support

Writing Center
Phone: (870) 972-3451

“The Arkansas State University Writing Center is a comfortable learning space in which ALL members of the A-State community, undergraduate students, graduate students, faculty, and staff, can receive feedback on their writing. Our qualified, friendly writing consultants will help you at any stage of the process, from deciphering assignment sheets to providing feedback on writing projects that are nearly finished. We will help you with any writing occasion, whether it be personal, academic, or professional.”

The A-State Writing Center offers weekly hours for students to visit in person or virtually using Skype. Visit the A-State Writing Center website for hours and follow the steps on the Skype Tutoring page to set up a virtual visit. The hours are limited and vary during holidays and final exam periods so plan ahead and accordingly.

Additional Support
In addition, the Web is your friend and you can find various resources just by searching the topics associated with International Business.

Policies

Students with Disabilities Policy
If you have a documented disability and wish to discuss academic accommodations, please contact me as soon as possible. Students who require academic adjustments in
the classroom due to a disability must register with Arkansas State Disability Services (870-972-3964).

**Participation Policy**
Online participation is required in this course! You are a college level learner and active participation in all online activities and course assignments is extremely important. Students not participating in the online learning environment will not succeed in this course.

Things you can do to stay actively involved and succeed:

- Read your announcements when logging into the course
- Contact your instructor with any questions in a timely manner
- Participate in all learning activities (discussion boards, journals, blogs, etc.)
- Collaborate with other students in the course via email, assignments, etc.
- Review each module’s material at the beginning of the week and plan work accordingly

*Important: You are required to have a contingency plan in place in the event technology fails. Computer issues, Internet outages, power outages, login issues and any other technical issues will not be valid excuses for late assignments. Again, plan your week accordingly with time for problem solving and instructor communication.*

**Academic Misconduct Policy**
Academic honesty is key to your success in this course. All work must be your own and sources must be cited when used. Plagiarism and cheating will not be tolerated and will result in a zero for the assignment. In addition, a second academic dishonesty offense will result in dismissal from this course and possibly the college.

As stated by the student handbook, “Arkansas State University enthusiastically promotes academic integrity and professional ethics among all members of the A-State academic community. Violations of this policy are considered as serious misconduct and may result in severe penalties.”


**Late Work Policy**
All assignments, including readings, are expected to be completed on time. It is crucial that you check Blackboard, as this is where your assignments will be posted. Ensure you read the textbook and complete the assignments. You will **not learn** the material otherwise. Every topic builds on the other. Therefore, if you don’t read the material or complete the assignments, you will be at a serious disadvantage. **I will NOT accept late any assignment after the due date.**
**Netiquette Policy**

Netiquette refers to online rules of etiquette. In this course, you are required to follow these rules:

- Respect others, use proper grammar and do not yell (typing with all capital letters) when conversing with others.
- Please respect the privacy of others taking this class and be sure to ask for clarification if you find a discussion board posting offensive or difficult to understand.
- As with all courses, try to support your comments with facts and reliable sources.
- Please remember that you are taking a college class. Something that would be inappropriate in a traditional classroom is also inappropriate in an online classroom.
- Many communications with your instructor or fellow students are best handled through email. Only post on the classroom discussion board if the conversation is relevant to others in the class and can help expand the discussion in question.