

Learning Outcomes:

General Education

- Evaluate arguments in a logical fashion

Technical Education

- Design and develop a relational database
- Identify and implement 3rd normal form in database tables
- Identify and implement binary relationships within a database
- Gain experience with a state of the art client-server DBMS

Course Specific

- Identify the characteristics of a Relational Database
- Create a workable design utilizing a Relation DBMS
- Identify characteristics of and implement Referential Integrity between tables
- Contrast and compare the cascading properties of a relationship
- Normalize database tables into 3rd normal form (**Required Skill**) *
- Implement 1:1, 1:M, and M:N relationships (**Required Skill**) *
- Execute select and update queries on database tables
- Identify characteristics of a true client-server DBMS
- Gain experience with SQL for data retrieval and updating
- Implement server-side constraints in a client-server DBMS environment
- Identify differences between declarative verses procedural constraints
- Create server side procedures (stored procedures) for retrieval and maintenance of tables
- Create user-friendly front-end components to the data

* Note: The outcomes which include the phrase ‘Required Skill’ must be met at a 100% efficiency for the student to receive credit for this course

Assessment of Student Learning:

This course may include a project that is one of several that will be used by faculty to assess student academic performance in the program. A panel of faculty will review all (projects or whatever assessment activity you are doing), then assess and summarize the academic performance of students at this point in the program. The results of this assessment will be shared among the department faculty, used to identify needed changes or improvements, and submitted to the Student Academic Assessment Committee as part of the college’s overall student academic assessment effort.

Assessment Project and Measurement in course (if any):

None

Plan of Work:

Session	Activities	Assignment
1	Introduction, Concepts: Chapter 1	Concepts: Page 27 Review Questions, Page 27-8 Premiere Products Exercises
2	Create the Premiere Products Database, Naming Conventions...	Concepts:: Complete the Premier Products database , Create and complete the Henry Books database, Read Chapter 2 through page 52
3	Concepts:: Chapter 2 – QBE	Concepts:: Page 63-4 Premier Products Exercises QBE, Page 65-6 Henry Books Case, Read Chapter 3

CIT2200 – Database Syllabus

4	Concepts:: Chapter 3	Concepts:: Page 105-6 Premier Products Exercises, Page 106-7 Henry Books Case, Read Concepts: Chapter 4
5	Concepts: Chapter 4	Concepts:: Page 137 Premier Products Exercises, Page 138 Henry Books Case
6	Creating meaningful user interfaces	Handout
7	Creating meaningful user interfaces	Handout
8	Review	Take home Test
9	In Class Test	
10	Handout: Creating Relationships	Handout
11	Handout: Normal Forms	Handout
12	Lab	
13	In class Test	Read: SQL Chapter 1 & 2
14	SQL: Chapter 1 & 2 Introduction	Read :SQL Chapter 3 & 4
15	SQL: Chapter 3 & 4, Creating a DB	Create Premier Products DB
16	SQL: Chapter 4 Constraints, etc	Finish Premier Products DB, Read SQL: Chapters 5 & 6
17	SQL: Chapter 5 & 6 Retrieving Data	Handout, Read SQL Chapter 7
18	SQL: Chapter 7 Updating Data	Handout, Read SQL chapter 10
19	SQL: Chapter 10 Views	Handout
20	Review – Take Home Test	Take Home Test, Read SQL Chapter 20 & 21
21	SQL: Chapter 20 Backup & Recovery SQL: Chapter 21 Automating Administration	Read Chapter 8
22	SQL: Chapter 8 Stored Procedures	Handout
23	SQL: Chapter 8 Stored Procedures	Handout, Read SQL Chapter 13
24	SQL: Chapter 13 Triggers	Handout, Read SQL Chapter 12 and 19
25	SQL: Chapter 12 Security SQL: Chapter 19 Managing Security	
26	Accessing SQL Data via front end	Handout
27	Accessing SQL Data via front end	Handout
28	Lab	
29	Review – Take Home Test	Take Home Test
30	Take Home Test Due	

Course Requirements:

Regular attendance is mandatory. In the case of a necessary absence, contact your instructor for missed work. All projects must be completed in a time basis in order for a student to receive credit for the course. Projects must be representative of a student’s individual abilities.

Policies

Course Withdrawing: If for any reason you need to withdraw from this course, be certain that you do so according to College procedure. It is your responsibility to know and follow this procedure. If you simply stop coming to class, without officially withdrawing from the course, your grade is an automatic “F.” Please follow official College procedure for withdrawing from this or any course.

College Academic Policies are located in the College Catalog. A copy of the current catalog may be picked up in any of the division offices or admissions. The list of college policies is also available online at <https://www.terra.edu/register/Collegecat/policies.asp>.

Support Services: The College offers a number of support services to assist in your success in this course and all courses. Among these services are the Writing & Math Center in B105, the Office of

Learning Support Services, which coordinates the campus disability services and tutoring programs, the computer labs, and the computers in the atriums.

Any student who feels he/she may need an accommodation based on the documentation of a disability should contact the Office of Learning Support Services privately to discuss his/her specific issues. Please contact the OLSS at (419) 334-8400 X 208 or visit 100 Roy Klay Hall (Building A) to coordinate reasonable accommodations.

If you have a documented disability and are receiving academic accommodations through the Office of Learning Support Services, please schedule a meeting with your instructor in a timely manner so that we may discuss how these services will be arranged.

Tutoring services are available to students beginning the second week of every quarter. Students requesting tutoring services should obtain a tutor request form from the OLSS in 100 Roy Klay Hall (Building A) or online at the Terra website. Please note that instructor verification and acceptance of the Student Learner Agreement is necessary for all tutoring requests. All requests should be submitted to 100 Roy Klay Hall (Building A).