CS 2550 Review

**Chapter 1**

Know what a table, row, and column are used for in databases

Know what a primary key and a foreign key is

Know which SQL statements are used for data manipulation, data definition, data control and transaction control

Know what each form of Normalization involves. Know the keys of when data is in a given normalized form.

**Chapter 2**

Know the types of commonly used data types

Know how to write a SQL SELECT statement

Know the purpose of the DISTINCT and UNIQUE statements

**Chapter 3**

Know the different SQL Comparison Operators

Know how to write an SQL statement checking for equality

Know how to write and SQL statement using the greater than and less than operators

Know how to use the BETWEEN operator

Know how to use the IN operator

Know how to use the LIKE operator

Know how to use the NOT operator

Know how to use the NULL and NOT NULL operators

Know how to use the ORDER BY operator

Know how to create column aliases

Know how to add comments to your SQL statements

**Chapter 4**

Know how to use the LOWER, UPPER, INITCAP functions
Know how to use the LPAD and RPAD functions
Know how to use the DUAL table
Know how to use the SUBSTR function
Know how to use the LENGTH function
Know how to use arithmetic operators
Know how to use the NVL function
Know how to use the CASE function

**Chapter 5**

Know how to use the TO_CHAR function to format dates
Know how to use the TO_DATE function

**Chapter 6**

Know how to use the COUNT function
Know how to use the SUM function
Know how to use the AVG function
Know how to use the GROUP BY clause
Know how to use the HAVING clause

**Chapter 7**

Know how to write a table alias
Know how to write an equijoin
Know what a Cartesian product is
Know how to write a three or more table join
Know how to write a JOIN statement.

**Chapter 8**

Know syntax for writing subqueries
Know how to write subqueries
Know how to write a subquery using the Inline View
Know how to write a subquery where subquery is in the FROM clause

Chapter 9
Know how to write a UNION statement
Know how to write a MINUS operation statement

Chapter 10
Know how to write an Outer Join statement

Chapter 11
Know how to write an INSERT, UPDATE and DELETE statement
Know how to write a COMMIT statement
Know how to write a ROLLBACK statement