

CLASS PREPARATION GUIDE – WEEKS 8 AND 9
SQL (Structured Query Language)

INDE499B: Information Systems
 Dr. Jennifer Turns
 Autumn 2000

Notes on the next two weeks:

During weeks 8 and 9, we will be discussing SQL – Structured Query Language. The following table shows the sequence of topics (and use of class time) across the class periods.

Date	Monday, 11/13	Wednesday, 11/15	Friday, 11/17	Monday, 11/20	Wednesday, 11/22
Class, Part 1 Application	<i>Discuss Organization of Class for Last Four Weeks</i>	Discuss Class Prep Activity on SQL “Select” Single Table Basic Syntax	Discuss Class Prep Activity on SQL “Select” Single Table Advanced Syntax	Discuss Class Prep Activity on SQL “Select” Multi table “Join” Syntax	Discuss Class Prep Activity on SQL “Insert, Update, Delete” SQL “Create”
Class, Part 2 Theory	SQL “Select” Single Table Basic Syntax	SQL “Select” Single Table Advanced Syntax	SQL “Select” Multi table “Join” Syntax	SQL “Insert, Update, Delete” SQL “Create”	Review

General Sequence: The general sequence will be for me to introduce some aspect of SQL during the second half of a given class, for you to read about it and apply the ideas in a classroom preparation activity, and then for us to discuss the classroom preparation activity results during the first half of the subsequent class.

Log file Analysis as Classroom Preparation Activity Context: In the classroom preparation exercises for the next two weeks, you will be applying the SQL concepts discussed in class to the analysis of “log file” data. In computer terms, a log file is a file containing a record of users’ activity (i.e., hits) as they interact with a computer-based application (e.g., a website, a computer game, or a job application). In our case, we will be looking at a log of user activity on the Arthritis Source website (<http://www.orthop.washington.edu/arthritis/>) during the second week of January in 1996. To conduct the classroom preparation exercises, you will need to obtain a copy of the log file analysis database (logfileAnalysis-oneWeek-Access97.mdb or logfileAnalysis-oneWeek-Access2000.mdb) available through the class website.

For Monday, 13 November 2000:

Reading(s):

- None.

Classroom Preparation Activity:

- None – Project Deliverable #3 is due.

For Wednesday, 15 November 2000:

Reading(s):

- Introduction to SQL (sections on *History of SQL Standard, The Role of SQL in a Database Architecture, the SQL Environment*), p. 323-331
- SQL DML Select - *Processing Single Tables* (specifically the subsections *Clauses of SQL Statements, Using Expressions, and Using Functions*), p. 340-344.

Classroom Preparation Activity:

- Please respond to the survey located at:
<http://depts.washington.edu/ctl/catalyst/webq/survey.cgi?user=jturns&survey=10>
This assignment is due by **8:00 AM** on 11/15.

For Friday, 17 November 2000:

Reading(s):

- SQL DML Select– *Processing Single Tables*. Textbook, p. 340-354.

Classroom Preparation Activity:

- Please respond to the survey located at:
<http://depts.washington.edu/ctl/catalyst/webq/survey.cgi?user=jturns&survey=11>
This assignment is due by **8:00 AM** on 11/17.

For Monday, 20 November 2000:

Reading(s):

- SQL DML Select, *Processing Multiple Tables (Joins)*, Textbook, p. 354-363.

Classroom Preparation Activity:

- Based on the readings above, please respond to the survey located at:
<http://depts.washington.edu/ctl/catalyst/webq/survey.cgi?user=jturns&survey=12>
This assignment is due by **8:00 AM** on 11/20.

For Wednesday, 22 November 2000:

Reading(s):

- SQL DML - *Inserting, Updating, and Deleting Data*. Textbook, p. 337-338.
- SQL DDL - *Defining a Database in SQL*. Textbook, p. 331-337.

Classroom Preparation Activity:

- Please respond to the survey located at:
<http://depts.washington.edu/ctl/catalyst/webq/survey.cgi?user=jturns&survey=13>
This assignment is due by **8:00 AM** on 11/22.