HTTP Critical Path

Web Development Lab 1 - Database

HTTP 5112, Fall 2023

Tues/Wed 11:40 - 2:20PM

Instructor: Jemi Choi

The Critical Path is the course schedule. It is an important document that lays out weekly **and/or** module objectives that you are responsible for to ensure academic success. Download and/or print out a copy of the Critical Path and refer to it regularly.

Module Breakdown

Week	Topics, Readings, and Activities	Due Dates	Weight
1	Module 1: Introduction to Data Design		5%
	 Topics: Introduction to the course Introduction to data and database core concepts Activities: Assignment 1 (5%) 		
2	Module 2: Accessing Data Part 1	Sept 19/20	5%
	 Topics: Retrieving data from a database table with SQL queries Limiting columns Limiting rows with the WHERE clause and comparison operators Creating Aliases for columns Activities: 		

Week	Topics, Readings, and Activities	Due Dates	Weight
	Assignment 2 (5%)	Sept 25/26	
3	Module 3: Accessing Data Part 2 Topics: • Removing duplicate rows with DISTINCT • Refining results with logical operators • Refining results with LIKE, BETWEEN, IN and IS NULL • Sorting the result set with ORDER BY Activities: • Quiz 1 (1%) • Assignment 3 (4%)	Sept. 26/27 Oct 2/3/	1% 4%
4	Module 4: Join Operations Topics:	Oct 3/4 Oct 9/10	1% 4%
5	Module 5: Using Built-in Functions Topics:	Oct. 10/11 Oct. 16/17	1% 3%

Week	Topics, Readings, and Activities	Due Dates	Weight
	• Assignment 5 (3%)		
6	Module 6: Database Design Part 1	Oct. 17/18	1%
	Topics: Database design fundamentals Identifying tables & assigning columns Relationships between tables Primary keys and foreign keys Data types in MySQL Activities: Quiz 4 (1%) Assignment 6 (3%)	Oct. 19/20	3%
	READING WEEK	Oct 23-27	
7	Module 7: Database Design Part 2 Topics:	Oct. 31/ Nov1	1%

8	Module 8: Database Design Part 3	Nov 7/8	
	Topics:		
	 General principles of database design 		
	 Relationship types 		
	 Constraints 		
	 Normalization 		

Week	Topics, Readings, and Activities	Due Dates	Weight
	Optimizing with indices		
9	Module 9: Views & Triggers	Nov. 14/15	1%
	Topics:		
	• Views		
	Triggers		
	Activities:		
	• Quiz 6 (1%)		
10	Module 10: Custom Functions	Nov. 21/22	1%
	Topics:		
	· Creating custom functions		
	 Implementing conditions & loops 		
	Activities:		
	• Quiz 7 (1%)		

11	Module 11: Procedures	Nov. 28/29	1%
	Topics:		

Revised Sep 15, 2021

Week	Topics, Readings, and Activities	Due Dates	Weight
12	Module 12: User Management	Dec. 5/6	1%
	 Topics: Providing access to your data Passwords in MySQL User management Permissions & privileges Activities: Quiz 9 (1%) 		
13	Topics:	Dec. 12/14	16%

Summary of Graded Course Components

Summary	Weight
Total for all Quizzes (x 10)	10%
Total for all Assignments (x 6)	24%

Total for all Projects (x 2) 16% Total 50%