

ITP 303 Midterm II Study Guide

Database and MySQL

- Relational Database Design and Normalization
- Relationships types (one-to-one, one-to-many, many-to-many)
- CRUD (Create, Read, Update, and Delete) statements
- Understand the difference between tables and views
- EER Diagrams

SQL

Familiarize yourself with the SQL syntax and common SQL statements, keywords, clauses and functions.

- Column types, AUTO_INCREMENT and constraints
- SELECT statements with the ORDER BY keyword
- WHERE clauses with the OR and AND operators
- INSERT INTO statements
- UPDATE statements
- DELETE statements
- MAX , MIN and COUNT functions
- LIKE operator and wildcards
- JOIN clauses
- GROUP BY statements
- Table and column aliasing

PHP

Familiarize yourself with the PHP syntax and common functions.

- Writing an HTML <form> element
- Superglobals in PHP
- Associative arrays in PHP
- GET and POST methods
- Receiving and validating data sent through a form
- Interacting with a MySQL database in PHP
- Opening a connection
- Performing CRUD operations

- Displaying results queried from the database
- Alternative syntax for control structures
- include and require
- Constants
- SQL injection & Prepared statements