

IT420 Spring 2007
12-week Exam Review Sheet

The 12 week exam will concentrate on material covered in class or labs after the 6 week exam. Here are the main topics we discussed:

1. PHP and MySQL

- a. variables, constants, arrays (numerically indexed arrays and associative arrays)
- b. control statements (if, for, foreach, while, ...)
- c. files
- d. functions
- e. objects/classes, inheritance
- f. Work with MySQL using PHP
 - i. Connect to a database
 - ii. Query
 - iii. process results
 - iv. close connection
- g. authentication and sessions
 - i. Passwords
 - ii. Session variables

2. SQL VIEWS

- a. SQL View is a virtual table that is constructed from other tables or views.
- b. Syntax: CREATE VIEW viewname AS viewquery
- c. Order By clause cannot be used in the Create View query.
- d. A view can be queried as if it is a table.
- e. Uses for views
- f. Updating views

3. Triggers

- a. A trigger is a stored program that is attached to a table or view.
- b. Type of triggers
- c. Uses for triggers
- d. Writing a trigger

4. Stored Procedures

- a. A stored procedure is a program that performs some common action on database data and is stored in the database.

- b. Advantages of stored procedures
 - c. How to write a stored procedure
 - d. Differences between triggers and stored procedures
- 5. Ethical issues and responsibilities in records management
- 6. Database security
 - a. Create users
 - b. Grant/revoke permissions
 - c. Changing passwords
 - d. General security guidelines
- 7. SQL queries (while this topic was mostly covered before the 6 week exam, you need to know how to write an SQL query to answer a question about data in the database)