

FINAL PROJECT PHASE II 600.315/415 - Databases

Phase II due date: Friday, December 16, 2011 (4:30 PM).

What to hand in:

- (1) Your Phase I proposal will be considered an integral part of the final project, and it will not be necessary to repeat this information in your Phase II report. If your hard copy for Phase I has been returned to you for any reason, you *must* attach it to the end of your Phase II submission.
- (2) On your cover page, include the names of your team members, the section you are enrolled in (315 or 415), and a 2-3 line description of your application domain.
- (3) If your project description or database design has changed since your Phase I submission, describe these changes or additions.
- (4) Briefly describe how you loaded the database with values, including the sources of your data (e.g. URL's) and pointers to any specialized code you developed for pre-processing, extracting or loading the data.
- (5) If you did not use mysql on dbase, describe the exact software/hardware platform you used.
- (6) Provide a brief user's guide, describing in sufficient detail how a user could run your code, especially if using a non-standard platform or interface. If the comments in your code are sufficiently detailed, a pointer to them will be adequate.
- (7) List your major/minor areas of specialization. In most cases, these will be either (1) complex extraction of real data from online sources, or (2) a specialized view or forms-based interface with sophisticated report generation. Common minor topics include (3) transaction control, (4) security and (5) data-mining queries.
- (8) Give an analysis of your system's limitations and list suggested possibilities for improvement.
- (9) Include a set of reasonably formatted "output" from your project, appropriate for the focus of your project, and demonstrating interesting and challenging extraction, synthesis and summerization of information in the database, with sufficient titles and or notes to make it clear what the output represents. The nature of the output will depend on what is the the focus of your project.
- (10) Submit a full relational table specification of your database in the SQL Database Definition Language (DDL). This specification should include both the data type of each attribute, the NOT NULL constraint when appropriate and sample data values for each attribute represented as comments. You should also specify the primary keys

(e.g. PRIMARY KEY (*ssn*)) and referential constraints (e.g. FOREIGN KEY (*mgrssn*) REFERENCES *employee(ssn)*). Many groups included this specification in their project proposal.

- (11) Include a hard copy of all SQL code used in your system (commented appropriately), as well as any additional programs you used for data acquisition and input. If you have long sequences of 'input' statements in excess of 2 pages, provide a 2-3 page representative sample.
- (12) In addition, you are required to submit all a complete archive of all your code (SQL/stored-procedures/Perl/PHP/etc.) and data files, combined together as a unix tar file. To do this, make a new subdirectory somewhere given the same name as your oracle logname (e.g. *jdoe*) and *copy* or move all of your files to this subdirectory. The subdirectory should have *nothing* else in it but the code/data you plan to submit. Change to the *parent* directory of *jdoe* and run the following command:

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tar -cvf - jdoe | gzip > jdoe.fp.tgz
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where *jdoe* is replaced with your actual username. *Watch* the tar running log to make sure that all the files you want are included, and actually look at the contents of the *jdoe.fp.tgz* file (e.g. using *more* or *cat*) to make sure it's not empty before sending it. Please then upload the file using the same *submit.pl* program as used for homeworks 2 and 3. If your total gzipped submission file is larger than 1MB then please submit it on CDROM/DVDROM, either as a compressed tar file (as above) or in native full-file-directory mode.

Groups using non-standard platforms should consult with us regarding the appropriate mechanism for electronic submission.