

# Database Systems

CMPT 308

## - Lab 10: Stored Procedures - 20 points

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Goals	To write some cool stored procedures in PostgreSQL.
Scenario	Marist asks you to improve class registration. (What could go wrong?)
Deliverables	<p>Create tables for courses and their prerequisites from the script on our web site at <a href="http://www.labouseur.com/courses/db/courses-and-prerequisites.txt">http://www.labouseur.com/courses/db/courses-and-prerequisites.txt</a>.</p> <p>Write two functions (stored procedures) that take an integer course number as their only parameter:</p> <ol style="list-style-type: none"><li>1. function PreReqsFor(courseNum) - Returns the <b>immediate</b> prerequisites for the passed-in course number.</li><li>2. function IsPreReqFor(courseNum) - Returns the courses for which the passed-in course number is an <b>immediate</b> pre-requisite.</li></ol> <p>Optional Challenge: Demonstrate Jedi-level skills and write a third, recursive, function that takes a passed-in course number and generates <b>all</b> of its prerequisites. Uses the first two functions you wrote and recursion.</p>
Resources	<ul style="list-style-type: none"><li>• Chapters 9.4 and 10.2 in our text</li><li>• Stack Overflow - <a href="http://stackoverflow.com/questions/tagged/stored-procedures+postgresql">http://stackoverflow.com/questions/tagged/stored-procedures+postgresql</a></li></ul>
Submitting	Submit your script via Git. Push it to your GitHub repository <b>before</b> the due date (see syllabus). Remember to include your name and date. Neatness (and awesomeness) counts.

