Database Systems

CMPT 308

-Lab 9: Normalization Three - 20 points -

Goals	To further develop your facility with the art and science of normalization.
Scenario	You have been captured by Star Helix Security and tasked with designing a database for the Belters Little League Sports Alliance on Ceres Station. Here are some facts:
	 The league consists of many teams spread over three age groups.
	• The three age groups are as follows: under 10, 10 through 14, over 14
	 Each team plays in exactly one age group.
	• A team consists of many players, one or more assistant coaches, and one head coach.
	 We have first and last names, addresses, and phone numbers for all players and coaches.
	• For all coaches we need know the number of years they have been coaching.
	 A player can play on only one team.
	• A coach can coach several teams as long as each team is in a different age group.
Deliverables	 Identify and document all functional dependencies. Draw a fully annotated E/R diagram using LucidChart that illustrates the Platonic ideal of beautiful and correct relational database design. Convince me that your database is in 3NF (or even better, in Boyce-Codd Normal Form).
Resources	 Chapters 3 and 4.1 and 4.6 in our text, especially 4.1.11 and 4.6 Microsoft on Normalization - http://support.microsoft.com/kb/283878
Submitting	Print your work and bring it to class on the day it is due. (Feel free to push it to your GitHub repository as well.) Remember to include your name and date. Neatness counts. Since we will be discussing this lab in class on the due date, no late submissions will be accepted.

