**Assignment: DDL**

**Task 1: Southern Arkansas University Database Creation [5 points]**

Below is a schema of Southern Arkansas University database. Create the database and all tables using SQL command. Also, insert at least 3 rows in each table using SQL command. In phpMyAdmin, **Name your database as “universitydb”**.

***Shcema:***

Department (dept\_name, building, budget)

Course (course\_id, title, dept\_name, credits)

Instructor (ID, name, dept\_name, salary)

Section (course\_id, sec\_id, semester, year, building, room\_number)

Teaches (ID, course\_id, sec\_id, semester, year)

Student (ID, name, dept\_name, tot\_cred)

Note:

* Data type/domain of each attribute should be appropriate.
* You should maintain referential integrity (primary key-foreign key relationship. Below are example codes for creating two tables maintaining referential integrity.

create table department (

dept\_name varchar(20),

building varchar(15),

budget numeric(10,2),

Primary key (dept\_name));

create table course (

course\_id varchar(8),

title varchar(50),

dept\_name varchar(20),

credits numeric(2,0),

primary key (course\_id),

foreign key (dept\_name) references department (dept\_name));

What to submit: Create a report by putting all SQL commands for table creation and data insertion in a word document. In addition, display your table data using SQL commands in phpMyAdmin and put snapshots of all codes and tables with data in your report. Submit the report through Blackboard.

**Task 2: Data Manipulation using SQL Command [5 points]**

Perform following data manipulation:

1. Increase the budget of law department by 10 percent.
2. Show the budget of CSC department.
3. List name and salary of all instructors of CSC department.
4. List name and total credits of all students.

What to submit: Create a report by putting all SQL commands and snapshots of your codes and output from phpMyAdmin in a word document. Submit your report through Blackboard.