**Metropolitan State University**

**ICS 311 —Database Management Systems**

**Term Project Step 3**

**Database Implementation on MySQL**

Due: see syllabus

**Total: 24 Points**

**Part 1 (12 Points):**

In this part of the project you are required to implement your database on MySQL. Your implementation should include the following:

1- Create all the tables that you specified in your relational schema (Part 2, of Step 2). Make sure to include primary keys and foreign keys.

2- Populate all tables with data of your choice. Make sure that each table includes at least 10 rows.

**Part 2 (12 Points):**

* Design and clearly explain **at least ten** query scenarios that may be useful on your database. You may include the scenarios or questions you described in Step 1 question#4.
* Write SQL syntax to answer each query. A query like this: select count(\*) from tableOne, can only be used as one of the ten.
* Strongly suggested to include some queries using Table Joins, Aggregates (at least 2), Group By, Order By, and Having (In other words have a good variety that incorporates the material we have been learning).
* At least one query must use a view (that you created from your application tables) in the FROM clause.

Note: the SELECT used for in the creation of the view, does not count as one of the 10 queries.

**What to submit:**

**1-** A word document to explain your query scenarios. Think about the business that you are representing for these scenarios. Also need to create SQL syntax to answer these queries.

**2-** There is a dropbox folder on D2L to turn in your project code. You need to turn in the ‘.sql’ scripts that include:

**a.** SQL statements to create the tables (from Part 1 above).

**b.** SQL statements to populate tables with data (from Part 1 above).

**c.** SQL statements for your query scenarios (from Part 2).

**d.** SQL used to create the view (from Part 2).

Note that you need to include all the required SQL statements in file. This will be a file that ends in “.sql”.

**Make sure to test your file before you submit it. There should be no errors.**