

msj cis 310 Project 2

: Database Normalization and Creation
:: Due April 8

I Database Normalization

Go through the normalization process on all of your tables. Show this by drawing the dependency diagrams at each stage and then supplying an updated ERD of your database.

II SQL Creation

Write the SQL commands necessary to create the tables based on your now normalized ERD. Make sure all the relationships, data types, data and table constraints are created properly. In addition, create indexes that you believe will be important based on the business description or intuition about how a business would use the database. For example, a good index on a customer table would be the last (or first and last) name because customers will probably be searched for by name by the workers. Write these commands inside of a text file and save it. Next, create a database and run these commands in the query window. Once you get everything set up in the database write enough INSERT statements to have at least 5 rows of data in each table. Put these in the same file that you saved before in addition to running these on the database. To check if the data made it in use `SELECT * FROM tablename` to see what is in a table.

III Submission

Put your database file and the text file with the SQL commands inside of a zip file and e-mail it to me at alex_kuhl@msj.edu. If you chose to do your dependency diagrams on paper turn these in on the class date, if you have them in digital form include them in the zip file.