

## **MGS 404 – Fall 2016**

### **Homework 2– Due 10/03 before 5:00pm**

**Total Points: 30**

For all the exercises below copy and paste your queries, and paste the screenshot of the result you obtained. Submit printed hard copies.

#### **Exercise 1: Creating database in MySQL (5 points)**

Create a new database. Give any name.

“Use” this database.

#### **Exercise 2: Creating tables in MySQL (5 points)**

Use the CREATE TABLE command to create a table for the PARTS entity, with the attributes displayed in tables 1(see below). Make the “PART\_NUM” attribute as a primary key. Make the “ON\_HAND” attribute as NOT NULL.

Use the DESC command to check whether you created the table properly.

#### **Exercise 3: Adding values to tables in MySQL (5 points)**

Use the INSERT INTO command to populate the table you created in exercise 2. Use the sample table below (table 1) for the data values.

Use the SELECT \* command to display the table you created with the data values in them.

#### **Exercise 4: Single table queries (5\*3 = 15 points)**

Using a MySQL query list the description of all the parts with price of \$400 or less.

Using a MySQL query list all the rows for the parts that were both of class ‘HW’ and available at the warehouse 3.

Using a MySQL query list the description of the parts that were in the warehouses other than 3.

**HINT:** You can use either one of these: <>, != or NOT

**Bonus Exercise: Computed columns (5 points)**

List the part number, part description and inventory value for each part whose inventory value is at least \$7,500.

Hint: Use price \* inventory (on\_hand) to calculate the total inventory value for each one of the parts, and label the computed column INVENTORY\_VALUE.

**Bonus & Challenge Exercise (5 points)**

List the description of all the parts that have second letter in the “Description” as “o”.

HINT: Refer to the section “/\* The LIKE Operator and Wildcard Characters \*/” in the “SQL 9-19-2016 B.sql” file I shared. Also, do some research reading on the “Like” operator.

**Sample table:**

Table 1: Parts Table

PART_NUM	DESCRIPTION	ON_HAND	CLASS	WAREHOUSE	PRICE
AT94	Iron	50	HW	3	\$24.95
BV06	Home Gym	45	SG	2	\$794.95
CD52	Microwave Oven	32	AP	1	\$165.00
DL71	Cordless Drill	21	HW	3	\$129.95
DR93	Gas Range	8	AP	2	\$495.00
DW11	Washer	12	AP	3	\$399.99
FD21	Stand Mixer	22	HW	3	\$159.95
KL62	Dryer	12	AP	1	\$349.95
KT03	Dishwasher	8	AP	3	\$595.00
KV29	Treadmill	9	SG	2	\$1,390.00