**SQL-Homework 1: MySQL**

**Fall 2025, Due date: Sept 19th, 11:59pm**

**Question 1)**

create a MySQL database:

* Database name: plumbing
* Import data from Excel CSV files into the following tables:

|  |
| --- |
| **MySQL Table** |
| customer |
| orderdetail |
| orders |
| product |

**Question 2)**

Write SQL queries that display the following information:

Query 1) The name of each product.

**select productname from product;**

Query 2) All orders with no duplicate entries in the case of more than one order placed on the same day.

**select distinct orderdate from orders;**

Query 3) The entire PRODUCT table.

**select \* from product;**

Query 4) For each product, the product ID, product name, and the ratio of the number of units on order to the number of units in stock. Use AS clause to rename the last column of the query result as “OrderRatio”.

**select productid, productname, (unitsonorder/unitsinstock) as OrderRatio from product;**

Query 5) Show the name and unit price of all products priced below $50.

**select productname, unitprice from product where unitprice<50;**

(Note: SQL treats currency amounts like any other number, so you should not use a $ sign or quotes in your query.)

Query 6) Show the product name, units on order, and units in stock for all products for which the number of units on order is at least 40% of the number of units in stock.

**select productname, unitsonorder, unitsinstock**

**from product where unitsonorder >= unitsinstock\*0.4;**

Query 7) Show the same information as in Query 6, but with the additional restriction that the number of units on order is no more than 10.

**select productname, unitsonorder, unitsinstock**

**from product where unitsonorder >= unitsinstock\*0.4 and unitsonorder <= 10;**

Query 8) Show the first name, last name, city, and state of all customers outside New Jersey (state code “NJ”).

**select firstname, lastname, city, state from customer where state != 'NJ';**

Query 9) Show the first name, last name, city, and state of all customers who are outside New Jersey or have the first name “Robert” (or both).

**select firstname, lastname, city, state**

**from customer where (state != 'NJ' or firstname = 'Robert');**

Query 10) Show the name, unit price, units in stock, and units on order for each product, sorted from the largest number of units in stock to the smallest. For products with the same number of units in stock, sort the rows of output from the largest number of units on order to the smallest.

**select productname, unitprice, unitsinstock, unitsonorder**

**from product order by unitsinstock desc, unitsonorder desc;**

**Submission guidelines:**

* Submit your MySQL file as **PlumbingStore\_lastname\_firstname.sql** on Canvas.
* Rename **HW1Report.docx** as **HW1Report\_lastname\_firstname.docx**, complete the report by pasting the SQL statement for each query, and submit it on Canvas along with your MySQL file.