**SQL Lab 9/9/2021**

Here you will connect to a database that lives in the cloud. Once you connect, you will use MySQL to write sql queries to answer questions.

For each question include a file with the sql statement separated by a “;”

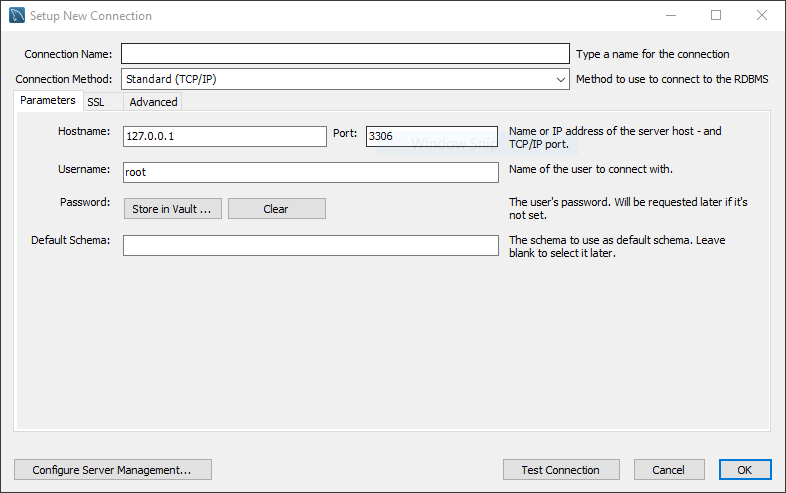
Name your file

***Lastname.firstname.9-9-lab.sql***

Upload it to Collab in the file drop. You can turn this in by Monday at 5:00PM

**Connecting to MySQL Instance in the cloud (in this case, Digital Ocean)**

1. **Open up your MySQL SQL Workbench**
2. **Click the little Plus Sign next to MySQL CONNECTION**
3. **You will see this screen**



1. **Add a Connection name – like DS3002 (do whatever you want)**

**In the Hostname field – type the following server name**ds3002-do-user-2852131-0.b.db.ondigitalocean.com

**Use the Port: 25060**

1. **The user name is: student**
2. **Click Okay and use “mz3NJZzgY-XuqIzu” as the password. It’s okay to save that in your keychain(mac) or Valut (windows)**
3. **For the Default Schema enter “mynorthwind”**

**It should look like this:**

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**You should be in!**

**Product Table Queries:**

1. Write a query to get Product name and quantity/unit.

SELECT ProductName,

QuantityPerUnit

FROM northwind.products

1. Write a query to get current Product list (Product ID and name).

**SELECT ProductID,**

**ProductName**

**FROM northwind.products**

**WHERE discontinued=0**

1. Write a query to get discontinued Product list (Product ID and name).

SELECT ProductID

, ProductName

FROM northwind.products

WHERE discontinued=1

1. Write a query to get most expense and least expensive Product list (name and unit price).

SELECT ProductName

, UnitPrice

FROM northwind.products

WHERE UnitPrice = (SELECT Min(UnitPrice) FROM northwind.products)

UNION

SELECT ProductName

, UnitPrice

FROM northwind.products

WHERE UnitPrice = (SELECT MAX(UnitPrice) FROM northwind.products)

1. Write a query to get Product list (id, name, unit price) where current products cost less than $20.

SELECT ProductID

, 2ProductName

, UnitPrice

FROM northwind.products

WHERE UnitPrice <20

AND Discontinued=0

1. Write a query to get Product list (id, name, unit price) where products cost between $15 and $25.

SELECT ProductID

, ProductName

, UnitPrice

FROM northwind.products

WHERE UnitPrice BETWEEN 15 AND 25

1. Write a query to get Product list (name, unit price) of above average price.

SELECT ProductID

, ProductName

, UnitPrice

FROM northwind.products

WHERE UnitPrice > (SELECT AVG(UnitPrice) FROM northwind.products)

1. Write a query to get Product list (name, unit price) of ten most expensive products.

SELECT ProductID

, ProductName

, UnitPrice

FROM northwind.products

ORDER BY UnitPrice DESC

LIMIT 10

1. Write a query to count current and discontinued products.

SELECT Discontinued, COUNT(\*) as Num

FROM northwind.products

GROUP BY Discontinued

1. Write a query to get Product list (name, units on order, units in stock) of stock is less than the quantity on order.

SELECT ProductName

, UnitsOnOrder

, UnitsInStock

FROM northwind.products

WHERE UnitsInStock < UnitsOnOrder