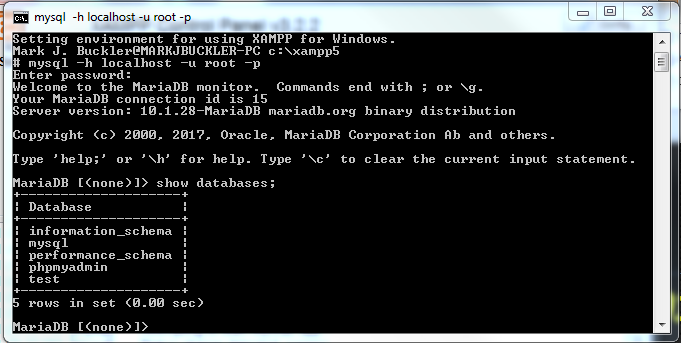
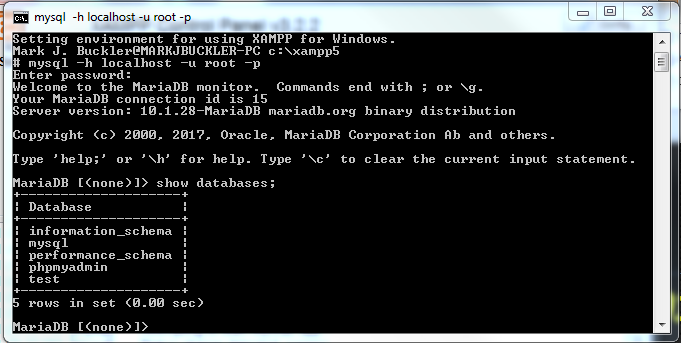
**Exercise 02\_07\_01 – Step 1**

In this Exercise, we will learn how to use the MySQL Monitor in the Console. We will learn some of the fundamental commands in SQL, Structured Query Language.



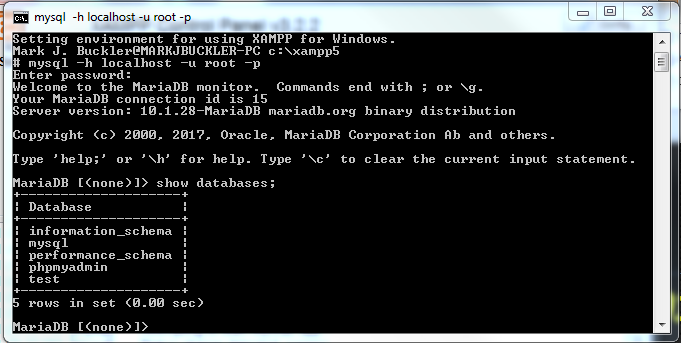
1. Create a folder named Exercise 02\_07\_01. Use Microsoft word to create a new file called ***Exercise 02\_07\_01.docx.*** Put your name at the top of the file. It will hold your screenshots of this exercise.
2. Open up a server console on your LAMPP stack. Login to MySQL as root to open up the command line for MySQL Monitor as follows:   
   ***# mysql -h localhost -u root –p***
3. At the MySQL Monitor prompt, enter the following command to ***create*** a new database:  
   ***> CREATE DATABASE sitevisitors;***
4. At the MySQL Monitor prompt, enter the following command to ***select*** the new database:  
   ***> USE sitevisitors;***
5. At the MySQL Monitor prompt, enter the following command to return the name of the ***currently*** ***active*** database:  
   ***> SELECT DATABASE();***
6. At the MySQL Monitor prompt, enter the following command to return the names of the ***currently*** ***available*** databases:  
   ***> SHOW DATABASES;***
7. Go to Windows Explorer or File Finder and locate the directory that contains your new database.
8. At the MySQL Monitor prompt, enter the following command to return the ***delete*** the database:  
   ***> DROP DATABASE sitevisitors;***
9. At the MySQL Monitor prompt, enter the following command to return the names of the ***currently*** ***available*** databases and confirm that your database is now gone:  
   ***> SHOW DATABASES;***  
   Expand the boundaries of your console window. Take a screen shot of the entire script from Item 1. Paste that screen shot into your Word document.

**Exercise 02\_07\_01 – Step 2**



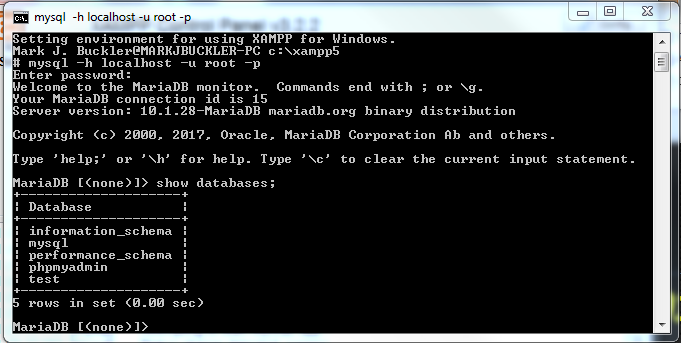
1. Open up a clean server console on your LAMPP stack. Login to MySQL as root to open up the command line for MySQL Monitor as follows:   
   ***# mysql -h localhost -u root –p***
2. At the MySQL Monitor prompt, repeat the following commands to recreate your database and verify it was created:  
   ***> CREATE DATABASE sitevisitors;   
   > USE sitevisitors;  
   > SHOW DATABASES;***
3. At the MySQL Monitor prompt, enter the following command to create the ***pagevisits*** table:  
   ***> CREATE TABLE pagevisits (page\_filename VARCHAR(250),   
    visit\_date DATE,  
    -> visit\_time TIME, previous\_page VARCHAR(250),  
    -> request\_method VARCHAR(10), remote\_host VARCHAR(250),   
    remote\_port INT);***
4. At the MySQL Monitor prompt, enter the following command to return view the structure of the new table:  
   ***> DESCRIBE pagevisits;***Expand the boundaries of your console window. Take a screen shot of the entire script from Item 1. Paste that screen shot into your Word document.

**Exercise 02\_07\_01 – Step 3**



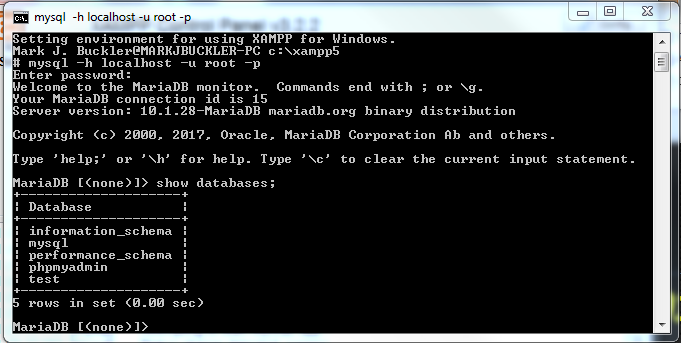
1. Open up a clean server console on your LAMPP stack. Login to MySQL as root to open up the command line for MySQL Monitor as follows:   
   ***# mysql -h localhost -u root –p***
2. At the MySQL Monitor prompt, enter the following command to select the ***sitevisitors*** database:  
   ***> USE sitevisitors;***
3. At the MySQL Monitor prompt, enter the following command to a new record into the pagevisits table:  
   ***> INSERT INTO pagevisits  
    -> (page\_filename, visit\_date, visit\_time, previous\_page,  
    -> request\_method, remote\_host, remote\_port)  
    -> VALUES('contact.php', '2012-03-17', '10:32:29',   
    'index.php',  
    -> 'GET', 'cis\_lab\_24.example.edu', 80);***You should get a Query OK message.
4. Enter another record as follows:  
   ***> INSERT INTO pagevisits  
    -> (page\_filename, visit\_date, visit\_time, previous\_page,  
    -> request\_method, remote\_host, remote\_port)  
    -> VALUES(guest\_book.php', '2012-03-17', '10:35:18',   
    contact.php',  
    -> 'GET', 'cis\_lab\_24.example.edu', 80);***  
   Expand the boundaries of your console window. Take a screen shot of the entire script from Item 1. Paste that screen shot into your Word document.

**Exercise 02\_07\_01 – Step 4**



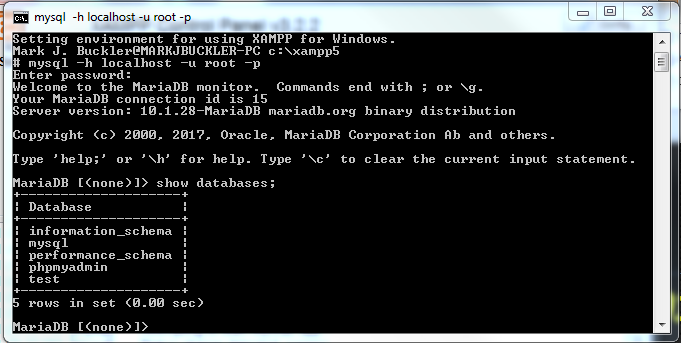
1. Copy the file ***page\_visits.txt*** into the directory on the server that is labeled ***sitevisitors***.
2. Open up a clean server console on your LAMPP stack. Login to MySQL as root to open up the command line for MySQL Monitor as follows:   
   ***# mysql -h localhost -u root –p***
3. At the MySQL Monitor prompt, enter the following command to select the ***sitevisitors*** database:  
   ***> USE sitevisitors;***
4. At the MySQL Monitor prompt, enter the following command to load data from the text file:  
   ***> LOAD DATA INFILE 'page\_visits.txt'  
    -> INTO TABLE pagevisits  
    -> FIELDS TERMINATED BY ',';***You should get a ***Query OK*** with 12 records loaded. Expand the boundaries of your console window. Take a screen shot of the entire script from Item 1. Paste that screen shot into your Word document.

**Exercise 02\_07\_01 – Step 5**



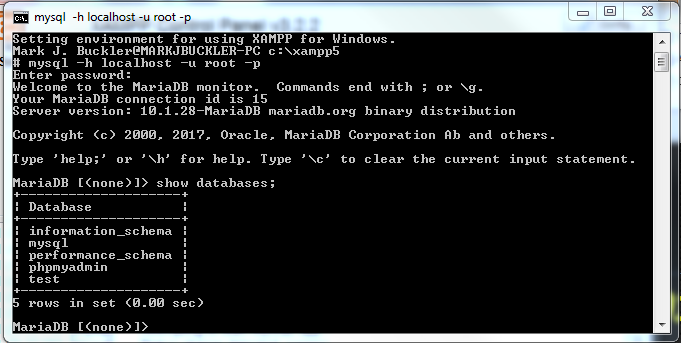
1. Open up a clean server console on your LAMPP stack. Login to MySQL as root to open up the command line for MySQL Monitor as follows:   
   ***# mysql -h localhost -u root –p***
2. At the MySQL Monitor prompt, enter the following command to select the ***sitevisitors*** database:  
   ***> USE sitevisitors;***
3. At the MySQL Monitor prompt, enter the following command to retrieve all data from the ***pagevisits*** table:  
   ***> SELECT \* FROM pagevisits;***
4. At the MySQL Monitor prompt, enter the following command to retrieve data and limit the columns from the ***pagevisits*** table:  
   ***> SELECT visit\_date, previous\_page, page\_filename FROM   
    pagevisits;***Expand the boundaries of your console window. Take a screen shot of the entire script from Item 1. Paste that screen shot into your Word document.

**Exercise 02\_07\_01 – Step 6**



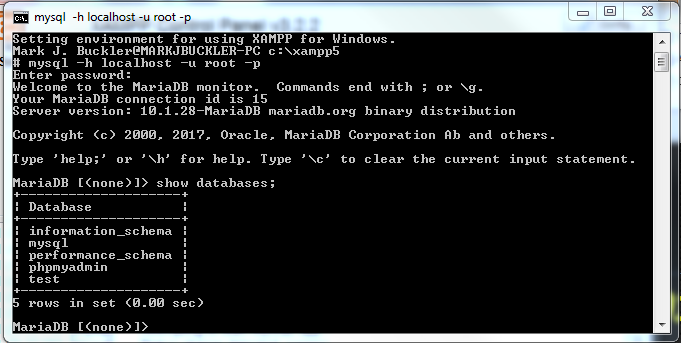
1. Open up a clean server console on your LAMPP stack. Login to MySQL as root to open up the command line for MySQL Monitor as follows:   
   ***# mysql -h localhost -u root –p***
2. At the MySQL Monitor prompt, enter the following command to select the ***sitevisitors*** database:  
   ***> USE sitevisitors;***
3. At the MySQL Monitor prompt, enter the following command to return each ***remote\_host*** from pagevisits with the number of pages visited by that remote\_host:  
   ***> SELECT remote\_host, COUNT(\*)  
    -> FROM pagevisits  
    -> GROUP BY remote\_host;***
4. At the MySQL Monitor prompt, enter the following command to return each ***remote\_host*** from pagevisits with the number of ***distinct*** pages visited by that remote\_host:  
   ***> SELECT remote\_host, COUNT(DISTINCT page\_filename)  
    -> FROM pagevisits  
    -> GROUP BY remote\_host;***Expand the boundaries of your console window. Take a screen shot of the entire script from Item 1. Paste that screen shot into your Word document.

**Exercise 02\_07\_01 – Step 7**



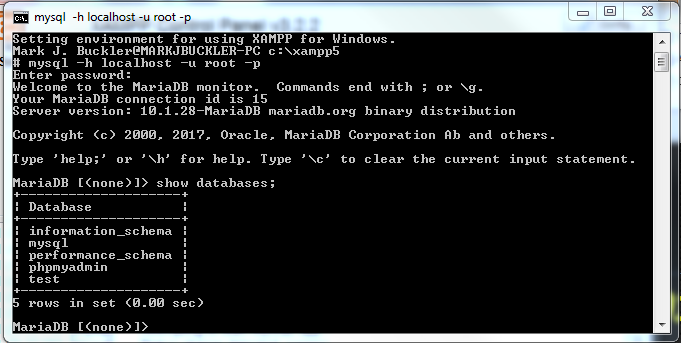
1. Open up a clean server console on your LAMPP stack. Login to MySQL as root to open up the command line for MySQL Monitor as follows:   
   ***# mysql -h localhost -u root –p***
2. At the MySQL Monitor prompt, enter the following command to select the ***sitevisitors*** database:  
   ***> USE sitevisitors;***
3. At the MySQL Monitor prompt, enter the following command to return all records from ***pagevisits***, with limited columns in ***ascending*** sort:  
   ***> SELECT visit\_date, previous\_page, page\_filename  
    -> FROM pagevisits  
    -> ORDER BY previous\_page, page\_filename;***
4. At the MySQL Monitor prompt, enter the following command to return all records from ***pagevisits***, with limited columns in ***descending*** sort:  
   ***> SELECT visit\_date, previous\_page, page\_filename  
    -> FROM pagevisits  
    -> ORDER BY visit\_date DESC;***Expand the boundaries of your console window. Take a screen shot of the entire script from Item 1. Paste that screen shot into your Word document.

**Exercise 02\_07\_01 – Step 8**



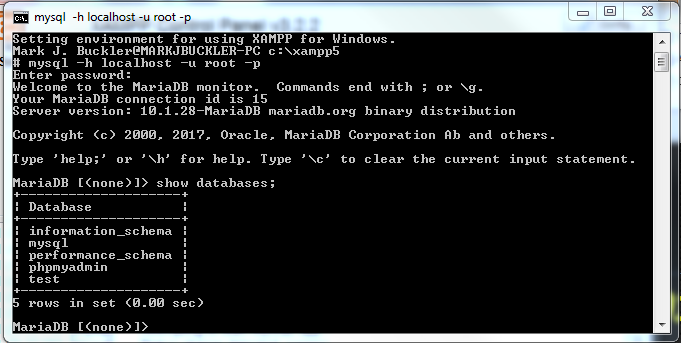
1. Open up a clean server console on your LAMPP stack. Login to MySQL as root to open up the command line for MySQL Monitor as follows:   
   ***# mysql -h localhost -u root –p***
2. At the MySQL Monitor prompt, enter the following command to select the ***sitevisitors*** database:  
   ***> USE sitevisitors;***
3. At the MySQL Monitor prompt, enter the following command to filter records from ***pagevisits***:  
   ***> SELECT \* FROM pagevisits  
    -> WHERE previous\_page=’index.php’;***
4. At the MySQL Monitor prompt, enter the following command to filter records from ***pagevisits***:  
   ***> SELECT \* FROM pagevisits  
    -> WHERE remote\_port>80;***Expand the boundaries of your console window. Take a screen shot of the entire script from Item 1. Paste that screen shot into your Word document.

**Exercise 02\_07\_01 – Step 9**



1. Open up a clean server console on your LAMPP stack. Login to MySQL as root to open up the command line for MySQL Monitor as follows:   
   ***# mysql -h localhost -u root –p***
2. At the MySQL Monitor prompt, enter the following command to select the ***sitevisitors*** database:  
   ***> USE sitevisitors;***
3. At the MySQL Monitor prompt, enter the following command to update records from ***pagevisits***:  
   ***> UPDATE pagevisits  
    -> SET previous\_page=’contact\_us.php’  
    -> WHERE previous\_page=’contact.php’;***
4. Enter the following command to update more records:  
   ***> UPDATE pagevisits  
    -> SET page\_filename=’contact\_us.php’  
    -> WHERE page\_filename=’contact.php’;  
   > SELECT \* FROM pagevisits***Expand the boundaries of your console window. Take a screen shot of the entire script from Item 1. Paste that screen shot into your Word document.

**Exercise 02\_07\_01 – Step 10**



1. Open up a clean server console on your LAMPP stack. Login to MySQL as root to open up the command line for MySQL Monitor as follows:   
   ***# mysql -h localhost -u root –p***
2. At the MySQL Monitor prompt, enter the following command to select the ***sitevisitors*** database:  
   ***> USE sitevisitors;***
3. At the MySQL Monitor prompt, enter the following command to delete records from ***pagevisits***:  
   ***> DELETE FROM pagevisits  
    -> WHERE visit\_date=’2012-03-17’  
    -> AND visit\_time=’10:32:29’;***
4. Enter the following command to delete more records:  
   ***> DELETE FROM pagevisits  
    -> WHERE visit\_date=’2012-03-17’  
    -> AND visit\_time=’10:35:18’;  
   > SELECT \* FROM pagevisits***Expand the boundaries of your console window. Take a screen shot of the entire script from Item 1. Paste that screen shot into your Word document.