

Level 2- Semester 1 Course: COMP 207 Date: Week 2 (Sept 23), 2017

#### Sheet 1

# Getting started with MySQL command prompt

Objective: on successful completion of this sheet, students should be able to

1. Open MySQL from command prompt.



- 2. Know what is the meaning of user name and password.
- 3. Explore the existing databases.
- 4. Create a sample database consists of two tables.

#### Q1) Open the MySQL command prompt and list all the existing database.

#### Answer)

- 1. Open xampp control panel from start menu and start MySQL
- 2. click on start menu → write cmd
- 3. In command prompt write
  - cd\
  - cd xampp\mysql\bin
  - mysql -h "localhost" -u "root" (h means <u>host</u> and u means <u>username</u>)
  - show databases;
  - Command Prompt mysql -h "localhost" -u "root"

```
Microsoft Windows [Version 10.0.14393]
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C:\Users\Wael-PC>cd\

C:\>cd xampp\mysql\bin

C:\xampp\mysql\bin>mysql -h "localhost" -u "root"
Welcome to the MariaDB monitor. Commands end with; or \g.
Your MariaDB connection id is 3
Server version: 10.1.19-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2016, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]>
```

### Q2) Create a database named *CompanyLab1*, then create the following two tables:

1. **Employee:** that contains the following fields:

a. **SSN:** set of 5 characters. (use char (5)).

b. Name: set of 50 characters. (use varchar (50)).]

c. **BDate:** of type date.

d. **Salary:** of type double.

e. <u>DeptNo:</u> set of 4 characters. (it must have the same type as a referenced field (number) in table Department).

#### 2. **Department**

- a. **Number:** set of 4 characters.
- b. **Name:** set of 50 characters.
- c. <u>ManagerSSN</u>: set of 5 characters. (it must have the same type as a referenced field (SSN) in table Employee).

```
Answer)
CREATE DATABASE CompanyLab1;
USE CompanyLab1;
CREATE TABLE Employee (
    SSN char(5),
    Name varchar(50),
    BDate Date,
    Salary double,
    DeptNo char(4)
);

CREATE TABLE Department(
    Number char(4),
    Name varchar(50),
    ManagerSSN char(5)
);
```

# Q3) Insert the following values to the above tables

SSN	Name	BDate	Salary	DeptNo
AA526	Ahmed	1990-05-12	5000	Prod
AA656	Bassem	1991-07-25	4900	Prod
AA852	Nasser	1989-11-30	6890	Tech

Number	Name	mangerSSN	
Prod	Production	AA526	
Tech	Technical	AA852	

```
Insert into Employee values ('AA526','Ahmed','1990-05-12',5000, 'prod'),

('AA656', 'Bassem','1991-07-25', 4900,'Prod'),

('AA852','Nasser','1989-11-30',6890, 'Tech');

Insert into Department values ('Prod','Production','AA526'),

('AA656', 'Technical','AA852');
```

### Q4) write the following queires:

1- **SELECT \* FROM** Employee;

```
MariaDB [CompanyLab1]> SELECT
                                 FROM Employee;
  SSN
          Name
                   BDate
                                 Salary
                                           DeptNo
 AA526
          Ahmed
                   1990-05-12
                                   5000
                                           prod
                                   4900
 AA656
          Bassem
                   1991-07-25
                                           Prod
 AA852
                   1989-11-30
                                   6890
          Nasser
                                           Tech
 rows in set (0.00 sec)
```

2- **SELECT** Name, BDate **FROM** Employee;

3- SELECT E.Name AS 'Employee Name', D.Name AS 'Department Name' FROM Employee E, Department D WHERE E. DeptNo=D.Number;

