

## **Internal attachment : Database Systems**

Instructions: Perform the tasks below and submit all the required screenshots

Use the MySQL command line to perform the following tasks:

1. Run the command to show all the databases on the system. Take a screenshot of the output [2 marks]
2. Create a database and give it your name. Run the command to show all the databases on the system again. Take a screenshot of the output [3 marks]
3. A pharmacy would like to automate all their services and you have been tasked to come up with the system's database.
  - i. Identify the entities in this system (at least 5) [5 marks]
  - ii. Identify the attributes of each entity [10 marks]
  - iii. Identify any relationships that may exist between the entities [5 marks]
  - iv. Using the database created above, create a table for each entity. Use a command to display each table's structure and take a screenshot. [10 marks]
  - v. For each table, identify the primary key. Use a command to alter the table so as to add a primary key to the table. Take a screenshot of each table's structure [5 marks]
  - vi. For each relationship identified in (iii) above, run commands to create the relationship in the database. Take a screenshot of any tables affected by these commands [5 marks]
  - vii. Populate the tables with appropriate entries. Each table should have at least 5 rows. Take a screenshot of each table showing the data entered. [5 marks]
  - viii. Run at least 5 commands to show how you would update data in the table. Take a screenshot of each command and also the result of the command. [5 marks]
  - ix. Run at least 5 commands to show how to delete data from a table. Take a screenshot of each command and the result of the command. [5 marks]
  - x. For each relationship between two tables in the database, write at least two different commands to show how a join query can be used to fetch data between two related tables simultaneously. Take a screenshot of the query and the output [10 marks]