**CSC 303 WEEKEND EXERCISES**

1a. Enumerate the various types of data types in MySQL.

b. Discuss MySQL Engines.

c. Differentiate between DDL and DML.

d. Illustrate the concept of privileges in MySQL.

2. In law court, cases are usually kept and monitored until the case is thrown up or finalize (completely judged). Using MS-ACCESS, develop a judiciary application called **CASE-App** that keeps track of cases, their ID (Case Code), Case Owner (Or Case Owner ID), Case Status (i.e. pending, adjourn, concluded etc), Case Solicitors (the people that handled the case during hearings), Hearing City, the Judge that handled the case etc. Design your table/file such that **Normalization** Rules are obeyed. Capture your data/records via ***forms***.

From your records/tables/files, fire the under-listed ***queries***:

1. All Cases
2. All Pending Cases
3. All Concluded/Judged Cases
4. All Case Solicitors (Solicitors/Barristers/Lawyers that have handled one or two cases)
5. All Cases heard/held in Lagos and Abuja
6. All Case Judges (Judges that have handled one or two cases)
7. All Judges in Nigeria
8. All Judges from a specified State
9. All Serving Judges
10. All Retired Judges
11. Judges and their Contacts (e.g. phones and emails – don’t include their addresses ooooooh, don’t expose them to risk (smile – God will preserve them))
12. All Solicitors/Barristers/Lawyers in Nigeria
13. All Solicitors/Barristers/Lawyers from a specified state
14. All Serving Solicitors/Barristers/Lawyers
15. All Retired Solicitors/Barristers/Lawyers
16. Solicitors/Barristers/Lawyers and their Contacts (e.g. phones and emails – don’t include their addresses ooooooh, don’t expose them to risk (smile – God will preserve them))

* Generate adequate ***reports*** for all the queries listed above.
* Design appropriate menu for easy access to all App operations/reports.

3. The table below shows the information about a student ***fellowship’s*** **EXCOs** for a particular ***session***. Using MS-ACCESS and the provided information:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NAME** | **POST** | **LEVEL** | **DEPT (COURSE)** | **PHONE** |
| Bro. A | GC | 200 | LAW | 08100000000 |
| Sis. B | Sis. Cord. | 300 | PSYCHOLOGY | 07000000000 |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |

Design a data-driven **EXCO-App** that can be appreciated by your fellowship (from session to session), with adequate query and report generating mechanisms and well-captivating interfaces, all presented in a switchboard/dashboard. Generate as many queries as possible that made it easier for the leadership of the fellowship to access/retrieve any exco’s info.