Lab Exercise #3 (10%)

SGG4563 Advanced Database System
ArcGIS ArcSDE + SQL Server

Objectives of the 3rd lab exercise:

§ To familiarize students with troubleshooting hardware and installation process of RDBMS software.
§ To encourage students with critical thinking in problem solving by adapting "try-and-error" technique in troubleshooting basic GIS components.
§ To enhance knowledge on integrating databases and handling basic GIS functions using ArcSDE – SQL Server – ArcGIS Desktop software.

Tasks:

1. Installation process:
    a. Install Microsoft SQL Server (version 2000 or latest, if applicable).
    b. Install ArcGIS ArcSDE v9.2 (if applicable).

2. Troubleshooting:
    a. Install any necessary Service Packs or updates.

3. Write a detail report on how to:
    a. populate existing attributes (Kelantan_Stats.dbf) into SQL Server
    b. convert existing shapefiles into SQL server format using ArcSDE.
    c. connect to the populated spatial database and attributes in SQL Server using ArcGIS via database connection method.
    d. join spatial database with SQL database in ArcGIS.
    e. convert text (string) to number (value).
    f. create a thematic map.
    g. describe some connection troubleshooting and analysis comparison between GeoMedia, MapInfo and ArcSDE software.

Note:

§ Upload your report either in word document file (*.doc / *.docx) or as PDF (*.pdf) file or as zipped file (*.zip or *.rar).
§ NO hardcopy printing is required.
§ Late submission will be given zero (0) marks and will not be entertained.