ASSIGNMENT - I

TITLE: Study of open source relational databases: MySQL

INSTALLATION OF MYSQL ON WINDOWS:

- i) Simply download the installer package and run the setup.exe
- ii) Everything will be installed under C:\mysg1.
- iii) After MySQL has been installed, we can verily that everything is working via some simple steps
 - (1) [noothost] # mysgladmin -- version This is used to check the server version.
 - @ [root@host] # mysql This will be rewarded with a 'mysgl>' prompt. Now you're connected to the MySQL server and can execute all SQL commands.

eg: mysql> show databases; Output: [Database]

2 rows in set (0.13 sec)

· Post Installation Steps:

i) A noot password needs to be set by the user (i.e you) as follows ! [root@ host] # mysqladmin - u nort password "new-password",

ii) [root@ host] # mysq1 -v root -p

Enter password: ** * *

This password will now have to be used everytime to access the Command line Client.

HEORY !

- · Database: A database is an organized collection of data which can be easily accessed, managed and updated.
- Relational Database Management System (RDBMS): It is a software that enables you to implement database with tables, tuples I columns. It based on the relational model of data as proposed by E.F. Codd in 1970. It guarantees the referential integreity between rows of various tables and also operates indexes automatically. It interprets an SQL query & combines the information from various tables.

· RDBMS Terminology:

- 1) Database: Organized collection of data.
- ii) Table: A table is a matrix with data. It looks like a simple spreadsheet (.csv file).
- (iii) Row: A now is a group of related data. It's also called as a tuple.
- iv) Column: One column contains data of one of the same kind
- records of any data is called redundancy. To make the system faster, redundancy should be removed.

· MySOL Database:

- 1) It is a fast, easy-to-use RDBMs software used for small & large-scale data alike.
- ii) It is developed, marketed & supported by MySQLAB, a Swedish company.
- iii) It's an open source software.
- ir) It uses sol language, which is well known everywhere.
- v) It is jest.
- vi) It is a very user friendly software.

MySQL COMMANDS:

- i) use databasename. This is used to select a particular database to work upon.
- ii) show databases: Shows all the accessible databases in the MySRL DBMS.
- iii) show tables: Shows all the tables in the selected database.
- iv) show columns from tablename: Shows the attributes & types, key information, defaults & other information for a table.
- v) show index from tablename: shows the details of all indices on the table, including primary key.
- vi) show table status like tablename (9: Reports details of the MySQL DBMS performance & etatictics.