Prof. Dr. Yousry Taha Database Systems Due: 18/4/2017

Database Systems

Database Administration Session # 4

Objectives

- 1) Learning how to manage database memory.
- 2) Learning how to manage database storage.
- 3) Learning how to manage users and security.

References

[1] http://dev.mysql.com/doc/refman/5.7/en/

Reading

https://www.mysql.com/products/workbench/admin/

Administration Statements

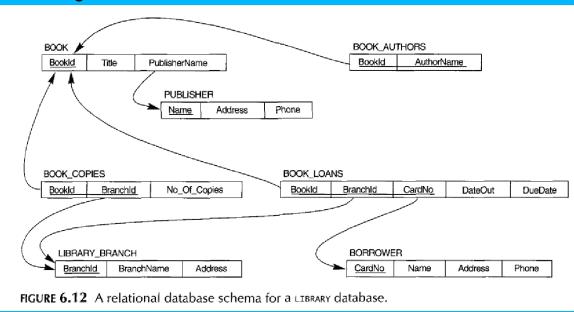
Establishing a Network and Testing the Connection

Lab Session

- From the cmd prompt or the workbench, connect to the database generated in **lab session 3** (as shown in the schema figure below) using the default root with root as password system administrative privileges.
- Using the SQL Developer, create a new user account called *SAMPLE* and grant it as DBA. Also, unlock the default *HR* user account.
- Write a simple program or use an offline tool, to insert about 200, 000 records or more for each table. Using the *SAMPLE* account, report the storage details about: **data files, free space, offline table spaces, table space quotas**, and **table space segments** before and after the insertion.
- Compact the database tables storage, and report whether it recovered the unused spaces or not.
- Use the *HR* account to establish a local network between your database host machine, and another machine that will be a database client. Then, configure the network environment between the two machines and connect from the client machine to the database on the host one.
- Select the publishers that have phone numbers ended with '39' and show this result.

- Expire the password of the *HR* account and drop the *SAMPLE* one.
- Shut down and disconnect the database on the host machine from the cmd prompt.

Schema figure



Good Luck