**Lab 4**

**Mysql**

1. Run the post-installation setup, **mysql\_secure\_installation**, to perform the following tasks.

* Set password for **root**, using the Medium validation policy.
* Remove anonymous users.
* Disallow root login remotely.
* Remove **test** database and reload privilege tables.

1. Login to mysql as root.

*Self-check:*

* *Check the* ***user*** *table in* ***mysql*** *database to make sure that the anonymous users have been removed. The table should contain only root and reserved users.*
* *Check that the* ***test*** *database has been removed.*

1. Create a new database named **stdb**.
2. Create a table named **tbl\_items** with the following fields:

* id, integer type with length equal to 10, auto increment, primary key
* name, varchar with length = 30
* brand, varchar with length = 20

1. Create a table named **tbl\_supp** with the following fields:

* id, integer type with length = 10, auto increment, as primary key
* name, varchar with length = 30
* biz\_type, varchar with length = 30

*Self-check:*

* *Check the structure of both tables to verify that they are created correctly.*
* *How to add a field / column into existing table?*
* *How to remove a field / column from a table?*
* *How to remove a table from a database?*

1. Add a field / column named **supp\_id** into **tbl\_items** as a foreign key.
2. Create a new user named **stadmin**, which can login from localhost and also from any host, with default password **stAdmin\_605**.

*Self-check:*

* *What if the password doesn’t meet the verification policy? How to change password?*

1. If **stadmin** logs in from localhost, all privileges will be granted on the **stdb** database.
2. If stadmin logs in from any other host, only CREATE, ALTER, DELETE, DROP, SELECT, INSERT and UPDATE privileges are granted on **stdb** database.

*Self-check:*

* *How to remove privileges from user?*

1. Create a Cron job to backup **stdb** database with **mysqldump**. (Schedule the job 2 minutes from current time to see whether it works. Remember to check the output file.)