**Script 3**

This script store and write the input per line, the content of the file will include all the login user, password and user account who got lock into the $1(first argument file).

This script saves a lot time look for each account states, compare to check the file line by line, also filter the account as well

INPUT=$1

OLDIFS=$IFS //ifs stand for field splitting/word splitting

IFS=,

[ ! -f $INPUT ] && { echo "$INPUT file not found"; exit 99; } //if the script doesn’t exist the input file will show the message <input file name> not found

while read login //if the file exist

do

grep -q "$login" /etc/passwd && passwd -l $login

done < $INPUT //done when the process finish and write to the file

grep -q "$login" /etc/passwd && passwd -l $login

grep <--to search

-q <--quiet, --silent suppress all normal output

"$login" <--user login name

/etc/passwd <--file path

&& <--and

passwd -l <--password lock

$login <--user login name

**Script 4**

This script wrote in a php language stored in html file, this script uses to create queries to select users by reading from input file, to set access selected database tables to user, also create user if the user doesn’t exist in the database.

Why using this script?  
It reduces a lot of time writing and inserting query and search one by one. For example, there 15 students needed access to the database, DB admin will have to inserting each student one by one. This script will search and generate queries for 15 students, also create a 2020XXXX-mysql.txt and store all the select student queries in the txt file . It improves the work efficiency.

**<html>**

**<head>**

**</head>**

**<body>**

**<?php**

**//set variables**

**//once the script finish runningwill generate a file name based the on the finish date and time**

**$mysqloutput = date("YmdHis")."-mysql.txt";**

**// all user information store in $userFile ready to run the script**

**$userFile = "mysqlusers.txt";**

**//open the file name variable called $userFile or echo message if the txt file doesn’t exist**

**$inputfile=fopen($userFile,"r") or exit("Ya blew it. File mysqlusers.txt doesn't exist");**

**//Append to a File**

**$scriptoutput=fopen($mysqloutput,"a");**

**//this part of the script will run when user doesn’t exist in the database, and will create an account for the user**

**//write to file (XXX.-mysql.txt) and the procedure query below**

**fwrite($scriptoutput, "use rbroadley; drop procedure if exists createUser; "**

**delimiter $$**

**//create sql procedure createUser with 2 column username and password**

**create procedure createUser(username varchar(50), pw varchar(50))**

**begin**

**//if the user exist from the database do nothing, else create user**

**IF (SELECT EXISTS(SELECT 1 FROM `mysql`.`user` WHERE `user` = username)) = 0 THEN**

**begin**

**//sql query to create user**

**//concat <-- add strings together**

**set @sql = CONCAT('CREATE USER ', username, '@\'%\' IDENTIFIED BY \'', pw, '\'');**

**//prepared statement from the query above**

**prepare stmt from @sql;**

**//execute statement**

**execute stmt;**

**// Attempting to execute a prepared statement after deallocating it**

**deallocate prepare stmt;**

**end;**

**END IF;**

**end $$**

**// separate the data items in a database with new line**

**delimiter ;\n");**

**//all create user queries above will store in XXX.mysql.txt file**

**//read mysqlusers.txt file**

**//add those users in the file line by line that to be able to access the select database**

**//** **feof — Tests for end-of-file on a file pointer, point to the input file**

**while(!feof($inputfile))**

**{**

**//start**

**$username = strtolower(rtrim(fgets($inputfile), "\r\n"));**

**if ($username != ""){**

**$explode = explode(",", $username);**

**fwrite($scriptoutput, "call createUser('".$explode[0]."','".$explode[1]."');"); //create user**

**fwrite($scriptoutput, "grant all privileges on `".$explode[0]."\_%`.\* to '".$explode[0]."'@'localhost' with grant option;\n"); //grant privilege to create db's suffixed with username**

**//Grant select on sakila, weather and world.**

**fwrite($scriptoutput, "GRANT SELECT ON `mysql`.\* to ".$explode[0]."@'localhost';");**

**fwrite($scriptoutput, "GRANT SELECT ON `sakila`.\* to ".$explode[0]."@'localhost';");**

**fwrite($scriptoutput, "GRANT SELECT ON `weather`.\* to ".$explode[0]."@'localhost';");**

**fwrite($scriptoutput, "GRANT SELECT ON `world`.\* to ".$explode[0]."@'localhost';\n");**

**}**

**}**

**//will need to flush the privilege to enable users to use the selected database**

**fwrite($scriptoutput, "FLUSH PRIVILEGES;");**

**//will print out 'Greate job' once the add user process complete**

**echo "Great Job!";**

**//file close**

**fclose($inputfile);**

**fclose($scriptoutput);**

**?>**

**</body>**

**</html>**

**More detail about tests for end-of-file on a file pointer**

**//select exists data**

**SELECT EXISTS(**

**//select the useranme from database called mysql and table called user**

**//and find username one by one**

**SELECT 1 FROM `mysql`.`user` WHERE `user` = username**

**//concat <-- add strings together**

**//create user <username that from granted database list> with their password**

**CONCAT('CREATE USER ', username, '@\'%\' IDENTIFIED BY \'', pw, '\'');**

**//strtolower -Make a string lowercase**

**//strim - Strip whitespace**

**//explode - Split a string by a string**

**// \r\n - carriage return and newline**

**$username = strtolower(rtrim(fgets($inputfile), "\r\n"));**

**if ($username != ""){**

**$explode = explode(",", $username);**

**//to run the createUser procedure that we made before, and run the explode array , to create users**

**fwrite($scriptoutput, "call createUser('".$explode[0]."','".$explode[1]."');");**

**//grant privilege to create db's suffixed with username**

**fwrite($scriptoutput, "grant all privileges on `".$explode[0]."\_%`.\* to '".$explode[0]."'@'localhost' with grant option;\n");**

**//Grant select on sakila, weather and world.**

**fwrite($scriptoutput, "GRANT SELECT ON `mysql`.\* to ".$explode[0]."@'localhost';");**

**fwrite($scriptoutput, "GRANT SELECT ON `sakila`.\* to ".$explode[0]."@'localhost';");**

**fwrite($scriptoutput, "GRANT SELECT ON `weather`.\* to ".$explode[0]."@'localhost';");**

**fwrite($scriptoutput, "GRANT SELECT ON `world`.\* to ".$explode[0]."@'localhost';\n");**

**//all these granted queries will be store in 2020XXX.mysql.txt file($mysqloutput)**