**Laboratory Report Cover Sheet   
DeVry University  
College of Engineering and Information Sciences**

**Course Number: DBM438**

**Professor:**

**Laboratory Number:** 6

**Laboratory Title:** Users, Privileges and Security

**Submittal Date:** 4/10/2016

***Objectives:***

In week 6 lab we will be learning how to create and manage users within the database. We will also learn how user management helps support security.

***Lab Results from MySQL Server—As per your lab instructions, you will need to copy the contents of your lab output file in your VM into this document here before submitting this lab report to the Dropbox.***

mysql> #5.A

mysql> CREATE USER 'bob'@'localhost' IDENTIFIED BY 'along';

Query OK, 0 rows affected (0.00 sec)

mysql> #5.B

mysql> GRANT create, insert, update, select, drop on devrydbm438.\* to 'bob'@'localhost';

Query OK, 0 rows affected (0.00 sec)

mysql> FLUSH PRIVILEGES;

Query OK, 0 rows affected (0.00 sec)

mysql> #5.C

mysql> SHOW GRANTS FOR 'bob'@'localhost';

+------------------------------------------------------------------------------------------------------------+

| Grants for bob@localhost |

+------------------------------------------------------------------------------------------------------------+

| GRANT USAGE ON \*.\* TO 'bob'@'localhost' IDENTIFIED BY PASSWORD '\*34B1607F32C7716614200AFCAF8E60CFB53882AF' |

| GRANT SELECT, INSERT, UPDATE, CREATE, DROP ON `devrydbm438`.\* TO 'bob'@'localhost' |

+------------------------------------------------------------------------------------------------------------+

2 rows in set (0.00 sec)

mysql> notee;

mysql> #5.E

mysql> SHOW GRANTS;

+------------------------------------------------------------------------------------+

| Grants for bob@localhost |

+------------------------------------------------------------------------------------+

| GRANT USAGE ON \*.\* TO 'bob'@'localhost' IDENTIFIED BY PASSWORD <secret> |

| GRANT SELECT, INSERT, UPDATE, CREATE, DROP ON `devrydbm438`.\* TO 'bob'@'localhost' |

+------------------------------------------------------------------------------------+

2 rows in set (0.00 sec)

mysql> notee;

mysql> SET PASSWORD FOR ?bob?@?localhost? = PASSWORD(?olink?);

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '?bob?@?localhost? = PASSWORD(?olink?)' at line 1

mysql> SET PASSWORD FOR ?bob?@?localhost? = PASSWORD (?olink?);

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '?bob?@?localhost? = PASSWORD (?olink?)' at line 1

mysql> notee;

mysql>

mysql> SET PASSWORD FOR 'bob'@'localhost' = PASSWORD ('olink');

Query OK, 0 rows affected (0.00 sec)

mysql> #5.G

mysql> SET PASSWORD FOR 'bob'@'localhost' = PASSWORD ('olink');

Query OK, 0 rows affected (0.00 sec)

mysql> #5.H

mysql> grant create temporary tables on devrydbm438.\* to ?bob?@?localhost?;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '?bob?@?localhost?' at line 1

mysql> grant create temporary tables on devrydbm438.\* to 'bob'@'localhost';

Query OK, 0 rows affected (0.00 sec)

mysql> ALTER USER 'bob'@'localhost';WITH MAX\_CONNECTIONS\_PER\_HOUR 5;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' at line 1

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'MAX\_CONNECTIONS\_PER\_HOUR 5' at line 1

mysql> ALTER USER 'bob'@'localhost' WITH MAX\_CONNECTIONS\_PER\_HOUR 5;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'MAX\_CONNECTIONS\_PER\_HOUR 5' at line 1

mysql> ALTER USER 'bob'@'localhost' WITH MAX\_CONNECTIONS\_PER\_HOUR 5;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'MAX\_CONNECTIONS\_PER\_HOUR 5' at line 1

mysql> ALTER USER 'bob'@'localhost' WITH MAX\_CONNECTIONS\_PER\_HOUR 5;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'MAX\_CONNECTIONS\_PER\_HOUR 5' at line 1

mysql> ALTER USER 'bob'@'localhost' WITH MAX\_CONNECTIONS\_PER\_HOUR 5;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'MAX\_CONNECTIONS\_PER\_HOUR 5' at line 1

mysql> ALTER USER 'bob'@'localhost' WITH MAX\_CONNECTIONS\_PER\_HOUR 5;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'MAX\_CONNECTIONS\_PER\_HOUR 5' at line 1

mysql> grant usage on devrydbm438.\* to 'bob'@'localhost' with max\_connections\_per\_hour 5;

Query OK, 0 rows affected (0.00 sec)

mysql> SELECT MAX\_CONNECTIONS, MAX\_QUESTIONS, MAX\_USER\_CONNECTIONS, MAX\_UPDATES FROM mysql.user WHERE user = 'bob';

+-----------------+---------------+----------------------+-------------+

| MAX\_CONNECTIONS | MAX\_QUESTIONS | MAX\_USER\_CONNECTIONS | MAX\_UPDATES |

+-----------------+---------------+----------------------+-------------+

| 5 | 0 | 0 | 0 |

+-----------------+---------------+----------------------+-------------+

1 row in set (0.00 sec)

mysql> FLUSH PRIVILEGES;

Query OK, 0 rows affected (0.00 sec)

mysql> #5.I

mysql> SHOW GRANTS FOR 'bob'@'localhost';

+--------------------------------------------------------------------------------------------------------------------------------------------+

| Grants for bob@localhost |

+--------------------------------------------------------------------------------------------------------------------------------------------+

| GRANT USAGE ON \*.\* TO 'bob'@'localhost' IDENTIFIED BY PASSWORD '\*14B1E63FB722DC074B495B2813D430E18DF597B2' WITH MAX\_CONNECTIONS\_PER\_HOUR 5 |

| GRANT SELECT, INSERT, UPDATE, CREATE, DROP, CREATE TEMPORARY TABLES ON `devrydbm438`.\* TO 'bob'@'localhost' |

+--------------------------------------------------------------------------------------------------------------------------------------------+

2 rows in set (0.00 sec)

mysql> select MAX\_CONNECTIONS, MAX\_QUESTIONS, MAX\_USER\_CONNECTIONS, MAX\_UPDATES FROM mysql.user WHERE user = 'bob';

+-----------------+---------------+----------------------+-------------+

| MAX\_CONNECTIONS | MAX\_QUESTIONS | MAX\_USER\_CONNECTIONS | MAX\_UPDATES |

+-----------------+---------------+----------------------+-------------+

| 5 | 0 | 0 | 0 |

+-----------------+---------------+----------------------+-------------+

1 row in set (0.00 sec)

mysql> #5.J

mysql> use devrydbm438;

Database changed

mysql> source d:/dbm438/DBM438\_Lab6.sql

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'Rem NAME - Lab6\_support.SQL

Rem FUNCTION - BUILD TABLES AND POPULATE

Rem NOTES' at line 1

Query OK, 0 rows affected, 1 warning (0.00 sec)

Query OK, 0 rows affected, 1 warning (0.00 sec)

Query OK, 0 rows affected, 1 warning (0.00 sec)

Query OK, 0 rows affected (0.01 sec)

Query OK, 0 rows affected (0.02 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.01 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 0 rows affected (0.01 sec)

Query OK, 0 rows affected (0.01 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.01 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

mysql> use devrydbm438;

Database changed

mysql> show tables;

+-----------------------+

| Tables\_in\_devrydbm438 |

+-----------------------+

| author |

| bonus |

| book\_author |

| book\_customer |

| book\_order |

| books |

| dept |

| emp |

| order\_items |

| promotion |

| publisher |

| salgrade |

+-----------------------+

12 rows in set (0.00 sec)

mysql> #6.A

mysql> CREATE USER 'jack'@'localhost' IDENTIFIED BY 'hornor';

Query OK, 0 rows affected (0.00 sec)

mysql> #6.B

mysql> GRANT CREATE, INSERT, UPDATE, DELETE, DROP, SELECT on devrydbm438.\* TO 'jack'@'localhost';

Query OK, 0 rows affected (0.00 sec)

mysql> FLUSH PRIVILEGES;

Query OK, 0 rows affected (0.00 sec)

mysql> #6.C

mysql> SHOW GRANTS FOR 'jack'@'localhost';

+-------------------------------------------------------------------------------------------------------------+

| Grants for jack@localhost |

+-------------------------------------------------------------------------------------------------------------+

| GRANT USAGE ON \*.\* TO 'jack'@'localhost' IDENTIFIED BY PASSWORD '\*8B7C1C63A367C787B4403C57C0DF8CC9DDA8DF29' |

| GRANT SELECT, INSERT, UPDATE, DELETE, CREATE, DROP ON `devrydbm438`.\* TO 'jack'@'localhost' |

+-------------------------------------------------------------------------------------------------------------+

2 rows in set (0.00 sec)

mysql> #6.D

mysql> SELECT host, user FROM mysql.user;

+-----------+------+

| host | user |

+-----------+------+

| 127.0.0.1 | root |

| ::1 | root |

| localhost | bob |

| localhost | jack |

| localhost | root |

+-----------+------+

5 rows in set (0.00 sec)

mysql> #6.E

mysql> notee

mysql> #6.F

mysql> SELECT \* FROM mysql.user;

ERROR 1142 (42000): SELECT command denied to user 'jack'@'localhost' for table 'user'

mysql> use devrydbm438;

Database changed

mysql> select \* from emp;

+-------+--------+-----------+------+------------+---------+---------+--------+

| EMPNO | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPTNO |

+-------+--------+-----------+------+------------+---------+---------+--------+

| 7369 | SMITH | CLERK | 7902 | 2004-12-17 | 800.00 | NULL | 20 |

| 7499 | ALLEN | SALESMAN | 7698 | 2004-02-20 | 1600.00 | 300.00 | 30 |

| 7521 | WARD | SALESMAN | 7698 | 2004-02-22 | 1250.00 | 500.00 | 30 |

| 7566 | JONES | MANAGER | 7839 | 2005-04-02 | 2975.00 | NULL | 20 |

| 7654 | MARTIN | SALESMAN | 7698 | 2005-08-09 | 1250.00 | 1400.00 | 30 |

| 7698 | BLAKE | MANAGER | 7839 | 2004-05-02 | 2850.00 | NULL | 30 |

| 7782 | CLARK | MANAGER | 7839 | 2005-06-09 | 2450.00 | NULL | 10 |

| 7788 | SCOTT | ANALYST | 7566 | 2003-07-07 | 3000.00 | NULL | 20 |

| 7839 | KING | PRESIDENT | NULL | 2003-11-25 | 5000.00 | NULL | 10 |

| 7844 | TURNER | SALESMAN | 7698 | 2005-09-02 | 1500.00 | 0.00 | 30 |

| 7876 | ADAMS | CLERK | 7788 | 2003-07-03 | 1100.00 | NULL | 20 |

| 7900 | JAMES | CLERK | 7698 | 2002-12-02 | 950.00 | NULL | 30 |

| 7902 | FORD | ANALYST | 7566 | 2004-12-02 | 3000.00 | NULL | 20 |

| 7934 | MILLER | CLERK | 7782 | 2005-01-23 | 1300.00 | NULL | 10 |

+-------+--------+-----------+------+------------+---------+---------+--------+

14 rows in set (0.00 sec)

mysql> create temporary table emptemp AS select \* from emp;

ERROR 1044 (42000): Access denied for user 'jack'@'localhost' to database 'devrydbm438'

mysql> create temporary table emptemp AS select \* from emp;

ERROR 1044 (42000): Access denied for user 'jack'@'localhost' to database 'devrydbm438'

mysql> GRANT CREATE, INSERT, UPDATE, DELETE, DROP, SELECT on devrydbm438.\* TO 'jack'@'localhost';

ERROR 1044 (42000): Access denied for user 'jack'@'localhost' to database 'devrydbm438'

mysql> notee

mysql> create temporary table emptemp AS select \* from emp;

ERROR 1046 (3D000): No database selected

mysql> use devrydbm438;

Database changed

mysql> create temporary table emptemp AS select \* from emp;

Query OK, 14 rows affected (0.01 sec)

Records: 14 Duplicates: 0 Warnings: 0

mysql> notee

***Conclusions:***

As user Jack, write a SELECT statement to show all of the data in STUDENT table in the SAMPDB database. What was the result? Add content to the Conclusions section of your Lab Report stating your findings and why this happened.

The reason for the error message is because we did not assign privileges to the user ‘jack’@‘localhost’. So we were trying to use the SELECT statement without any privileges which is why we got the error.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***Student:*** | KEVIN NGUYEN |  | WK6 |  | KN |
|  | Name |  | Program |  | Signature |