EXERCISE 2:
DML(DATA MANIPULATION LANGUAGE)

A data manipulation language (DML) is a family of computer languages including commands permitting users to manipulate data in a database. This manipulation involves inserting data into database tables, retrieving existing data, deleting data from existing tables and modifying existing data. DML is mostly incorporated in SQL databases.

PROGRAM:

Enter password: ********
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 11
Server version: 5.5.62 MySQL Community Server (GPL)

Copyright (c) 2000, 2018, Oracle and/or its affiliates. All rights reserved.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create database second;
Query OK, 1 row affected (0.03 sec)

mysql> show databases;
+--------------------+
| Database |
+--------------------+
| information_schema |
| dbfirst |
| first |
| mysql |
| performance_schema |
| second |
| test |
+--------------------+
7 rows in set (0.02 sec)

mysql> use second;
Database changed
mysql> create table learner;
ERROR 1113 (42000): A table must have at least 1 column
mysql> create table learner(id int,name varchar(20),subject varchar(20));
Query OK, 0 rows affected (0.02 sec)

mysql> insert into learner values(1,'shanthini','english');
Query OK, 1 row affected (0.01 sec)

```
mysql> select * from learner;
+------+----------+---------+
| id   | name     | subject |
+------+----------+---------+
|    1 | shanthini | english |
+------+----------+---------+
1 row in set (0.00 sec)

mysql> insert into learner (id,name,subject) values(2,'hari','computer');
Query OK, 1 row affected (0.00 sec)

mysql>  insert into learner (id,name,subject)
values(3,'sandy','tamil'),(4,'abi','science'),(5,'uma','social');
Query OK, 3 rows affected (0.00 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> select * from learner;
+------+----------+----------+
| id   | name     | subject  |
+------+----------+----------+
|    1 | shanthini | english  |
|    2 | hari     | computer |
|    3 | sandy    | tamil    |
|    4 | abi      | science  |
|    5 | uma      | social   |
+------+----------+----------+
5 rows in set (0.00 sec)

mysql> update learner set subject = 'computer' where id= 2;
Query OK, 0 rows affected (0.01 sec)
Rows matched: 1  Changed: 0  Warnings: 0

mysql>  update learner set subject = 'maths' where id= 2;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from learner;
+------+----------+---------+
| id   | name     | subject |
+------+----------+---------+
|    1 | shanthini | english |
|    2 | hari     | maths   |
|    3 | sandy    | tamil   |
|    4 | abi      | science |
|    5 | uma      | social  |
+------+----------+---------+
5 rows in set (0.00 sec)

mysql> update learner set name='mahesh' subject='history' where id=3;
```

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 'subject='history' where id=3' at line 1
mysql> update learner set name='mahesh', subject='history' where id=3;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> slect * from learner;
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 'slect * from learner' at line 1
mysql> select * from learner;
+------+-----------+---------+
| id | name | subject |
+------+-----------+---------+
1	shanthini	english
2	hari	maths
3	mahesh	history
4	abi	science
5	uma	social
+------+-----------+---------+
5 rows in set (0.00 sec)

mysql> update learner set subject='null' ;
Query OK, 5 rows affected (0.01 sec)
Rows matched: 5 Changed: 5 Warnings: 0

mysql> select * from learner;
+------+-----------+---------+
| id | name | subject |
+------+-----------+---------+
1	shanthini	null
2	hari	null
3	mahesh	null
4	abi	null
5	uma	null
+------+-----------+---------+
5 rows in set (0.00 sec)

mysql> delete from learner where id=4;
Query OK, 1 row affected (0.01 sec)

mysql> select*from learner;
+------+-----------+---------+
| id | name | subject |
+------+-----------+---------+
1	shanthini	null
2	hari	null
3	mahesh	null
5	uma	null

```
+------+-----------+---------+
4 rows in set (0.00 sec)

mysql>  insert into learner (id,name,subject) values(6,'sam','physics');
Query OK, 1 row affected (0.00 sec)

mysql> select*from learner;
+------+-----------+---------+
| id   | name      | subject |
+------+-----------+---------+
|    1 | shanthini | null    |
|    2 | hari      | null    |
|    3 | mahesh    | null    |
|    5 | uma       | null    |
|    6 | sam       | physics |
+------+-----------+---------+
5 rows in set (0.00 sec)

mysql> delete from learner where name='sam' and subject
4 rows in set (0.00 sec)='physics';
Query OK, 1 row affected (0.01 sec)

mysql> select*from learner;
+------+-----------+---------+
| id   | name      | subject |
+------+-----------+---------+
|    1 | shanthini | null    |
|    2 | hari      | null    |
|    3 | mahesh    | null    |
|    5 | uma       | null    |
+------+-----------+---------+
```