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)

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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 |

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