ASSIGNMENT-1

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Aim: study of DDL and DML operations on database tables using SQL

Tool: MariaDB
Steps to login in maria db monitor in windows
1. Navigate to Mysql workbench in command prompt
2. Enter Command: mysql -u root -p
3. Enter password:

INDEX:
1)What is SQL,DDL,DML,DCL,TCL,DQL
2)Operations under database
3)Timestamps
4)Sequence

Programming Language: Structured Query Language(SQL)

Theory

1)SQL: SQl is a query language to talk to databases.it is used by RDBMS models to maintain databases
Following are operations available in SQL

1)DDL: Data definition Language Command operations are Create, Drop, Alter, AND ,Truncate.They are used to define databases and tables

2)DML: Data Manipulation Language Commands.It is used to manipulate data or data from databases .Commands are Insert,Update,Delete

3)DCL: Data Control Language Command.Commands are Grant and Revoke

4)TCL: Transaction Control Language Commands.It includes Commit,Rollback,Save Point

5)DQL: Data Query Language Commands.It includes Select.it is used to retrieve data from database

2.Operations Under Database

1. **Create Database:** create database database_name;
2. **Getting List of all Databases:** show databases;
3. **Select Database:** select database();
4. **Use Database:** use database_name;
5. **Drop Database:** drop database database_name;
6. **Create Table:** create table table_name(column datatype,column datatype);
7. **Show tables:** show tables;
8. **Show columns:** show columns from table_name;
9. **Describe Table:** use to fetch the scheme of way describe table_name;
10. **Show create table table_name;**
11. **Insert Into Table:**
    Insert into table_name values(record1),(record2);
    OR
    Insert into
table_name(colm1,colm2,colm3)values(record1),(record2);

12.**Inserting NULL values table:** insert into student values(7,NULL);
13.**Select queries(with or without *):** '*' indicates all data from table
    Select * from table_name;
    Select column_name from table_name;
14.**Selecting records with NULL values:** select * from student where age is NULL;
15. **Alter:** it is used to change schema of the table.It performs the following operations:
    - **ADD a column:**alter table table_name add column_name datatype;
    - **Drop column:** alter table table_name drop table;
    - **Rename Column:** alter table table_name chane old_column_name column_new datatype;
    - **Modify Column:** alter table table_name modify column_name new datatype;(only changes datatype of column)
16.**Update:** modify data from existing data update table_name
    Set column_name=new value
17.**DELETE:** delete records from table delete from table_name where
18.**Rename Table:** Rename Table old_table_name,new table_name;
19:**Truncate:**truncate table_name;
20:**SELECT now();** current time
21: **SELECT user():** user name

22: SELECT curtime(): current time
23: SELECT MONTHNAME()
24:DATE_FORMAT(date,format[,locale])
%a-short weekday
%D- Day with english suffix th,nd,st)
%H Hour with 2 digits 0-23
%i minute with two digits
%r TIME in 12 hour format
25: TIMESTAMPS: combination of date and time together
26:USE OF SEQUENCES IN SQL:
Sequences in sql are database objects that generate a sequence of unique integer values.They are frequently used in databases because many applications require that each row in a table must contain unique values and sequences provide an easy way to generate them

syntax:

Create sequence sequence_name
START WITH initial value
INCREMENT BY increment_value
MINVALUE minimum_value
MAXVALUE maximum_value
CYCLE | NO CYCLE

Eg: insert into table_name col1 values(sequence_name.nextval);
Create sequence seq1
Start with 10
Min value 10
Maxvalue 100
Nocycle;

Create sequence seq2
Start with 100
Increment by -1
Minvaue 1
Maxvalue 100
cycle;

OUTPUT:

```
Enter password: ************
Welcome to the MariaDB monitor.  Commands end with ;
or \g.
```

```
Your MariaDB connection id is 3
Server version: 11.4.0-MariaDB mariadb.org binary
distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation
Ab and others.

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

MariaDB [(none)]> mysql -u
    -> clear
    -> \c
MariaDB [(none)]> mysql -u
    -> \c
MariaDB [(none)]> create database first_database;
Query OK, 1 row affected (0.018 sec)

MariaDB [(none)]> show databases;
+--------------------+
| Database           |
+--------------------+
| first_database     |
| information_schema |
| mysql              |
| performance_schema |
| sys                |
+--------------------+
5 rows in set (0.036 sec)

MariaDB [(none)]> select database();
+------------+
| database() |
+------------+
| NULL       |
+------------+
1 row in set (0.005 sec)

MariaDB [(none)]> use first_database;
Database changed
MariaDB [first_database]> drop database
first_database;
Query OK, 0 rows affected (0.044 sec)
```

```
MariaDB [(none)]> create database first_database;
Query OK, 1 row affected (0.002 sec)

MariaDB [(none)]> create table student(s_id
int,s_name char(30));
ERROR 1046 (3D000): No database selected
MariaDB [(none)]> use first_database;
Database changed
MariaDB [first_database]> create table student(s_id
int,s_name char(30));
Query OK, 0 rows affected (0.022 sec)

MariaDB [first_database]> show tables;
+-------------------------+
| Tables_in_first_database |
+-------------------------+
| student                 |
+-------------------------+
1 row in set (0.001 sec)

MariaDB [first_database]> describe student;
+--------+----------+------+-----+---------+-------+
| Field  | Type     | Null | Key | Default | Extra |
+--------+----------+------+-----+---------+-------+
| s_id   | int(11)  | YES  |     | NULL    |       |
| s_name | char(30) | YES  |     | NULL    |       |
+--------+----------+------+-----+---------+-------+
2 rows in set (0.032 sec)

MariaDB [first_database]> create table employee(eid
int,address varchar(30));
Query OK, 0 rows affected (0.014 sec)

MariaDB [first_database]> describe employee;
+---------+-------------+------+-----+---------+-----
--+
| Field   | Type        | Null | Key | Default |
Extra |
+---------+-------------+------+-----+---------+-----
--+
| eid     | int(11)     | YES  |     | NULL    |
  |
| address | varchar(30) | YES  |     | NULL    |
  |
```

```
+--------+------------+------+-----+---------+-----
--+
2 rows in set (0.022 sec)

MariaDB [first_database]> show columns from employee;
+--------+------------+------+-----+---------+-----
--+
| Field  | Type       | Null | Key | Default |
Extra |
+--------+------------+------+-----+---------+-----
--+
| eid    | int(11)    | YES  |     | NULL    |
   |
| address | varchar(30) | YES |     | NULL    |
   |
+--------+------------+------+-----+---------+-----
--+
2 rows in set (0.032 sec)

MariaDB [first_database]> show create table employee;
+--------+--------------------------------------------
------------------------------------------------------
------------------------------------------------------
--------------+
| Table    | Create Table
                                            |
+--------+--------------------------------------------
------------------------------------------------------
------------------------------------------------------
--------------+
| employee | CREATE TABLE `employee` (
  `eid` int(11) DEFAULT NULL,
  `address` varchar(30) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4_general_ci |
+--------+--------------------------------------------
------------------------------------------------------
------------------------------------------------------
--------------+
1 row in set (0.001 sec)

MariaDB [first_database]> insert into employee values
(1,"Veeransh");
Query OK, 1 row affected (0.064 sec)
```

```
MariaDB [first_database]> show columns from employee
    -> \c
MariaDB [first_database]> show columns from employee;
+---------+-------------+------+-----+---------+-----
--+
| Field   | Type        | Null | Key | Default |
Extra |
+---------+-------------+------+-----+---------+-----
--+
| eid     | int(11)     | YES  |     | NULL    |
   |
| address | varchar(30) | YES  |     | NULL    |
   |
+---------+-------------+------+-----+---------+-----
--+
2 rows in set (0.018 sec)

MariaDB [first_database]> select * from employee;
+------+---------+
| eid  | address |
+------+---------+
|    1 | Veeransh |
+------+---------+
1 row in set (0.001 sec)

MariaDB [first_database]> insert into employee
values(2,NULL);
Query OK, 1 row affected (0.004 sec)

MariaDB [first_database]> select * from employee;
+------+---------+
| eid  | address |
+------+---------+
|    1 | Veeransh |
|    2 | NULL     |
+------+---------+
2 rows in set (0.001 sec)

MariaDB [first_database]> select eid from employee;
+------+
| eid  |
+------+
|    1 |
```

```
|    2 |
+------+
2 rows in set (0.001 sec)

MariaDB [first_database]> select eid
    -> from employee
    -> where eid=2;
+------+
| eid  |
+------+
|    2 |
+------+
1 row in set (0.011 sec)

MariaDB [first_database]> select * from student
    -> \C
ERROR: Usage: \C charset_name | charset charset_name
    -> \C
ERROR: Usage: \C charset_name | charset charset_name
    -> \c
MariaDB [first_database]> alter table employee add
s_age int;
Query OK, 0 rows affected (0.024 sec)
Records: 0  Duplicates: 0  Warnings: 0

MariaDB [first_database]> select * from employee;
+------+---------+-------+
| eid  | address | s_age |
+------+---------+-------+
|    1 | Veeransh |  NULL |
|    2 | NULL     |  NULL |
+------+---------+-------+
2 rows in set (0.003 sec)

MariaDB [first_database]> alter table employee drop
s_age;
Query OK, 0 rows affected (0.018 sec)
Records: 0  Duplicates: 0  Warnings: 0

MariaDB [first_database]> select * from employee;
+------+---------+
| eid  | address |
+------+---------+
|    1 | Veeransh |
```

```
|    2 | NULL    |
+------+---------+
2 rows in set (0.003 sec)

MariaDB [first_database]> alter table student modify
address int;
ERROR 1054 (42S22): Unknown column 'address' in
'student'
MariaDB [first_database]> alter table employee modify
address int;
ERROR 1292 (22007): Truncated incorrect INTEGER
value: 'Veeransh'
MariaDB [first_database]> desc employee;
+---------+-------------+------+-----+---------+-----
--+
| Field   | Type        | Null | Key | Default |
Extra |
+---------+-------------+------+-----+---------+-----
--+
| eid     | int(11)     | YES  |     | NULL    |
   |
| address | varchar(30) | YES  |     | NULL    |
   |
+---------+-------------+------+-----+---------+-----
--+
2 rows in set (0.038 sec)

MariaDB [first_database]> alter table employee eid
id_no int;
ERROR 1064 (42000): You have an error in your SQL
syntax; check the manual that corresponds to your
MariaDB server version for the right syntax to use
near 'id_no int' at line 1
MariaDB [first_database]> alter table employee change
eid id_no int;
Query OK, 0 rows affected (0.015 sec)
Records: 0  Duplicates: 0  Warnings: 0

MariaDB [first_database]> desc employee;
+---------+-------------+------+-----+---------+-----
--+
| Field   | Type        | Null | Key | Default |
Extra |
```

```
+---------+-------------+------+-----+---------+-------+
| id_no   | int(11)     | YES  |     | NULL    |       |
| address | varchar(30) | YES  |     | NULL    |       |
+---------+-------------+------+-----+---------+-------+
2 rows in set (0.036 sec)

MariaDB [first_database]> update employee set
id_no=16 where id_no=1;
Query OK, 1 row affected (0.007 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [first_database]> select * from employee;
+-------+---------+
| id_no | address |
+-------+---------+
|    16 | Veeransh |
|     2 | NULL    |
+-------+---------+
2 rows in set (0.001 sec)

MariaDB [first_database]> delete from employee where
id_no=16;
Query OK, 1 row affected (0.002 sec)

MariaDB [first_database]> select * from employee;
+-------+---------+
| id_no | address |
+-------+---------+
|     2 | NULL    |
+-------+---------+
1 row in set (0.001 sec)

MariaDB [first_database]> rename table employee
new_employee;
ERROR 1064 (42000): You have an error in your SQL
syntax; check the manual that corresponds to your
MariaDB server version for the right syntax to use
near 'new_employee' at line 1
MariaDB [first_database]> rename table employee to
new_employee;
```

```
Query OK, 0 rows affected (0.016 sec)

MariaDB [first_database]> select* from employee;
ERROR 1146 (42S02): Table 'first_database.employee'
doesn't exist
MariaDB [first_database]> truncate new_employee;
Query OK, 0 rows affected (0.013 sec)

MariaDB [first_database]> show new_employee;
ERROR 1064 (42000): You have an error in your SQL
syntax; check the manual that corresponds to your
MariaDB server version for the right syntax to use
near 'new_employee' at line 1
MariaDB [first_database]>
```

vjti@vjti-OptiPlex-3050-AIO:~$ sudo mysql
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 46
Server version: 10.3.38-MariaDB-0ubuntu0.20.04.1 Ubuntu 20.04

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]> create database student;
Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> show databases;
+--------------------+
| Database |
+--------------------+
| information_schema |
| mysql |
| performance_schema |
| student |
+--------------------+
4 rows in set (0.001 sec)

MariaDB [(none)]> use student;
Database changed
MariaDB [student]> create table employee(id int,address
varchar(30),age int);
Query OK, 0 rows affected (0.199 sec)

```
MariaDB [student]> show tables;
+-------------------+
| Tables_in_student |
+-------------------+
| employee          |
+-------------------+
1 row in set (0.001 sec)

MariaDB [student]> insert into employee values(1,"Veeransh",19);
Query OK, 1 row affected (0.040 sec)

MariaDB [student]> show columns from employee;
+---------+-------------+------+-----+---------+-------+
| Field   | Type        | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
| id      | int(11)     | YES  |     | NULL    |       |
| address | varchar(30) | YES  |     | NULL    |       |
| age     | int(11)     | YES  |     | NULL    |       |
+---------+-------------+------+-----+---------+-------+
3 rows in set (0.016 sec)

MariaDB [student]> describe table;
ERROR 1064 (42000): You have an error in your SQL syntax; check the
manual that corresponds to your MariaDB server version for the right
syntax to use near 'table' at line 1
MariaDB [student]> describe employee;
+---------+-------------+------+-----+---------+-------+
| Field   | Type        | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
| id      | int(11)     | YES  |     | NULL    |       |
| address | varchar(30) | YES  |     | NULL    |       |
| age     | int(11)     | YES  |     | NULL    |       |
+---------+-------------+------+-----+---------+-------+
3 rows in set (0.001 sec)

MariaDB [student]> select now();
+---------------------+
| now()               |
+---------------------+
| 2024-01-25 09:09:19 |
+---------------------+
1 row in set (0.000 sec)

MariaDB [student]> select user();
```

```
+----------------+
| user()         |
+----------------+
| root@localhost |
+----------------+
1 row in set (0.000 sec)

MariaDB [student]> curdate;
ERROR 1064 (42000): You have an error in your SQL syntax; check the
manual that corresponds to your MariaDB server version for the right
syntax to use near 'curdate' at line 1
MariaDB [student]> curdate();
ERROR 1064 (42000): You have an error in your SQL syntax; check the
manual that corresponds to your MariaDB server version for the right
syntax to use near 'curdate()' at line 1
MariaDB [student]> select curdate();
+------------+
| curdate()  |
+------------+
| 2024-01-25 |
+------------+
1 row in set (0.000 sec)

MariaDB [student]> select curtime();
+-----------+
| curtime() |
+-----------+
| 09:11:44  |
+-----------+
1 row in set (0.000 sec)

MariaDB [student]> create table people(name VARCHAR(100),birthdate
DATE,birthtime TIME,birthdt DATETIME);
Query OK, 0 rows affected (0.175 sec)

MariaDB [student]> describe people;
+-----------+--------------+------+-----+---------+-------+
| Field     | Type         | Null | Key | Default | Extra |
+-----------+--------------+------+-----+---------+-------+
| name      | varchar(100) | YES  |     | NULL    |       |
| birthdate | date         | YES  |     | NULL    |       |
| birthtime | time         | YES  |     | NULL    |       |
| birthdt   | datetime     | YES  |     | NULL    |       |
```

```
+-----------+--------------+------+-----+---------+-------+
```
4 rows in set (0.002 sec)

MariaDB [student]> insert into peoplevalues('Veeransh,',2004-06-07','9:00:00','2004-06-07 9:00:00');
        '> Ctrl-C -- exit!
Aborted
vjti@vjti-OptiPlex-3050-AIO:~$ insert into people
values('Veeransh','2004-07-07','9:00:00','2004-07-07 9:00:00);
bash: syntax error near unexpected token `('
vjti@vjti-OptiPlex-3050-AIO:~$ INSERT INTO people
VALUES('Veeransh','2004-06-07','9:45:10','2004-06-07 9:45:10');
bash: syntax error near unexpected token `('
vjti@vjti-OptiPlex-3050-AIO:~$ sudo mysql
[sudo] password for vjti:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 47
Server version: 10.3.38-MariaDB-0ubuntu0.20.04.1 Ubuntu 20.04

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]> use student;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
MariaDB [student]> insert into people values('Veeransh','2004-07-07','9:00:00','2004-07-07 9:00:00');
Query OK, 1 row affected (0.087 sec)

MariaDB [student]> Ctrl-C -- exit!
Aborted
vjti@vjti-OptiPlex-3050-AIO:~$ sudo mysql
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 48
Server version: 10.3.38-MariaDB-0ubuntu0.20.04.1 Ubuntu 20.04

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]> use student;

Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
MariaDB [student]> insert into people values('abc','2000-09-10','10:00:00','2000-09-10 10:00:00');
Query OK, 1 row affected (0.043 sec)

MariaDB [student]> SELECT birthdate DAY(birthdate),DAYOFWEEK(birthdate),DAYOFYEAR(birthdate) FROM people;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '(birthdate),DAYOFWEEK(birthdate),DAYOFYEAR(birthdate) FROM people' at line 1
MariaDB [student]> SELECT DAY(birthdate) FROM people;
+----------------+
| DAY(birthdate) |
+----------------+
| 7 |
| 10 |
+----------------+
2 rows in set (0.001 sec)

MariaDB [student]> SELECT DAYOFWEEK(birthdate) FROM people;
+----------------------+
| DAYOFWEEK(birthdate) |
+----------------------+
| 4 |
| 1 |
+----------------------+
2 rows in set (0.001 sec)

MariaDB [student]> SELECT DAYOFYEAR(birthdate)FROM people;
+----------------------+
| DAYOFYEAR(birthdate) |
+----------------------+
| 189 |
| 254 |
+----------------------+
2 rows in set (0.001 sec)

```
MariaDB [student]> SELECT
birthdate,MONTHNAME(birthdate),YEAR(birthdate) FROM people;
+------------+---------------------+-----------------+
| birthdate  | MONTHNAME(birthdate) | YEAR(birthdate) |
+------------+---------------------+-----------------+
| 2004-07-07 | July                |          2004 |
| 2000-09-10 | September           |          2000 |
+------------+---------------------+-----------------+
2 rows in set (0.001 sec)

MariaDB [student]> SELECT
birthtime,HOUR(birthtime),MINUTE(birthtime) FROM people;
+-----------+-----------------+-------------------+
| birthtime | HOUR(birthtime) | MINUTE(birthtime) |
+-----------+-----------------+-------------------+
| 09:00:00  |               9 |                 0 |
| 10:00:00  |              10 |                 0 |
+-----------+-----------------+-------------------+
2 rows in set (0.000 sec)

MariaDB [student]> SELECT
birthdt,MONTH(birthdt),DAY(birthdt),HOUR(birthdt),MINUTE(birthdt)
FROM people;
+---------------------+----------------+--------------+---------------+-----------------+
| birthdt             | MONTH(birthdt) | DAY(birthdt) | HOUR(birthdt) | MINUTE(birthdt) |
+---------------------+----------------+--------------+---------------+-----------------+
| 2004-07-07 09:00:00 |              7 |            7 |             9 |               0 |
| 2000-09-10 10:00:00 |              9 |           10 |            10 |               0 |
+---------------------+----------------+--------------+---------------+-----------------+
2 rows in set (0.000 sec)

MariaDB [student]> select DATEDIFF(CURDATE(),birthdate) from
people;
+-------------------------------+
| DATEDIFF(CURDATE(),birthdate) |
+-------------------------------+
|                          7141 |
|                          8537 |
+-------------------------------+
2 rows in set (0.000 sec)
```

```
MariaDB [student]> select DATEDIFF(CURRDATE(),birthdt) from
people;
ERROR 1305 (42000): FUNCTION student.CURRDATE does not exist
MariaDB [student]> select DATEDIFF(CURDATE(),birthdt)from people;
+----------------------------+
| DATEDIFF(CURDATE(),birthdt) |
+----------------------------+
|                      7141 |
|                      8537 |
+----------------------------+
2 rows in set (0.000 sec)

MariaDB [student]> select DATE_ADD(CURDATE(),INTERVAL 1
YEAR)from people;
+-----------------------------------+
| DATE_ADD(CURDATE(),INTERVAL 1 YEAR) |
+-----------------------------------+
| 2025-01-25                        |
| 2025-01-25                        |
+-----------------------------------+
2 rows in set (0.000 sec)

MariaDB [student]> select DATE_ADD(birthdate,INTERVAL 1 YEAR)
from people;
+-----------------------------------+
| DATE_ADD(birthdate,INTERVAL 1 YEAR) |
+-----------------------------------+
| 2005-07-07                        |
| 2001-09-10                        |
+-----------------------------------+
2 rows in set (0.001 sec)

MariaDB [student]> select DATE_ADD(CURDATE(),INTERVAL 1
MONTH)from people;
+-----------------------------------+
| DATE_ADD(CURDATE(),INTERVAL 1 MONTH) |
+-----------------------------------+
| 2024-02-25                        |
| 2024-02-25                        |
+-----------------------------------+
2 rows in set (0.001 sec)
```

```
MariaDB [student]> select DATE_SUB(CURDATE(),INTERVAL 1
MONTH) from people;
+--------------------------------------+
| DATE_SUB(CURDATE(),INTERVAL 1 MONTH) |
+--------------------------------------+
| 2023-12-25                           |
| 2023-12-25                           |
+--------------------------------------+
2 rows in set (0.000 sec)

MariaDB [student]> --DATE_FORMAT(date,format[,locale])
MariaDB [student]> -- %a-short weekday
MariaDB [student]> --%D- Day with english suffix th,nd,st)
MariaDB [student]> --%H Hour with 2 digits 0-23
MariaDB [student]> --%i minute with two digits
MariaDB [student]> --%r TIME in 12 hour format
MariaDB [student]> Ctrl-C -- exit!
Aborted
vjti@vjti-OptiPlex-3050-AIO:~$ ^C
vjti@vjti-OptiPlex-3050-AIO:~$ sudo my sql
[sudo] password for vjti:
sudo: my: command not found
vjti@vjti-OptiPlex-3050-AIO:~$ sudo my sql
sudo: my: command not found
vjti@vjti-OptiPlex-3050-AIO:~$ sudo mysql
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 49
Server version: 10.3.38-MariaDB-0ubuntu0.20.04.1 Ubuntu 20.04

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]> use student;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
MariaDB [student]> select birthdate,DATE_FORMAT(birthdate,'%a %b
%D')from people;
+------------+--------------------------------+
| birthdate  | DATE_FORMAT(birthdate,'%a %b %D') |
+------------+--------------------------------+
| 2004-07-07 | Wed Jul 7th                    |
```

```
| 2000-09-10 | Sun Sep 10th             |
+------------+--------------------------------+
2 rows in set (0.001 sec)

MariaDB [student]> select birthdt, DATE_FORMAT(birthdt,'%H:%i')from
people;
+--------------------+-----------------------------+
| birthdt            | DATE_FORMAT(birthdt,'%H:%i') |
+--------------------+-----------------------------+
| 2004-07-07 09:00:00 | 09:00                      |
| 2000-09-10 10:00:00 | 10:00                      |
+--------------------+-----------------------------+
2 rows in set (0.001 sec)

MariaDB [student]> select birthdt DATE_FORMAT(birthdt,'BORN
ON:%r')from people;
ERROR 1064 (42000): You have an error in your SQL syntax; check the
manual that corresponds to your MariaDB server version for the right
syntax to use near '(birthdt,'BORN ON:%r')from people' at line 1
MariaDB [student]> select birthdt,DATE_FORMAT(birthdt,'BORN
ON:%r') from people;
+--------------------+------------------------------------+
| birthdt            | DATE_FORMAT(birthdt,'BORN ON:%r') |
+--------------------+------------------------------------+
| 2004-07-07 09:00:00 | BORN ON:09:00:00 AM              |
| 2000-09-10 10:00:00 | BORN ON:10:00:00 AM              |
+--------------------+------------------------------------+
2 rows in set (0.000 sec)

MariaDB [student]> create table captions(text
VARCHAR(150),created_at TIMESTAMP default
CURRENT_TIMESTAMP);
Query OK, 0 rows affected (0.189 sec)

MariaDB [student]> insert into captions(text) values("i hate you");
Query OK, 1 row affected (0.064 sec)

MariaDB [student]> create table captions2(text
VARCHAR(150),created_at TIMESTAMP default
CURRENT_TIMESTAMP,updated_at TIMESTAMP ON UPDATE
CURRENT_TIMESTAMP);
Query OK, 0 rows affected (0.193 sec)

MariaDB [student]> insert into captions2(text)values("i hate you");
```

Query OK, 1 row affected (0.030 sec)

MariaDB [student]> select * from captions2;
```
+------------+---------------------+---------------------+
| text       | created_at          | updated_at          |
+------------+---------------------+---------------------+
| i hate you | 2024-01-25 10:11:29 | 0000-00-00 00:00:00 |
+------------+---------------------+---------------------+
```
1 row in set (0.001 sec)

MariaDB [student]> update captions2 set text='i miss you';
Query OK, 1 row affected (0.040 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [student]> select*from captions2;
```
+------------+---------------------+---------------------+
| text       | created_at          | updated_at          |
+------------+---------------------+---------------------+
| i miss you | 2024-01-25 10:11:29 | 2024-01-25 10:12:44 |
+------------+---------------------+---------------------+
```
1 row in set (0.000 sec)

SCREENSHOT

```
vjti@vjti-OptiPlex-3050-AIO:~$ sudo mysql
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 46
Server version: 10.3.38-MariaDB-0ubuntu0.20.04.1 Ubuntu 20.04

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]> create database student;
Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| performance_schema |
| student            |
+--------------------+
4 rows in set (0.001 sec)

MariaDB [(none)]> use student;
Database changed
MariaDB [student]> create table employee(id int,address varchar(30),age int);
Query OK, 0 rows affected (0.199 sec)

MariaDB [student]> show tables;
+-------------------+
| Tables_in_student |
+-------------------+
| employee          |
+-------------------+
1 row in set (0.001 sec)
```