

DBMS LAB 1

SUBMISSION DATE: 28th Jan 23

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AIM: Study of DDL and DML operations on database Tables using SQL

PROGRAMMING LANGUAGE: Structured Query Language (SQL) - MariaDB

THEORY:

Q1 : What is SQL?

Ans: SQL stands for Structured Query Language and is used for managing and storing data in the relational database management system

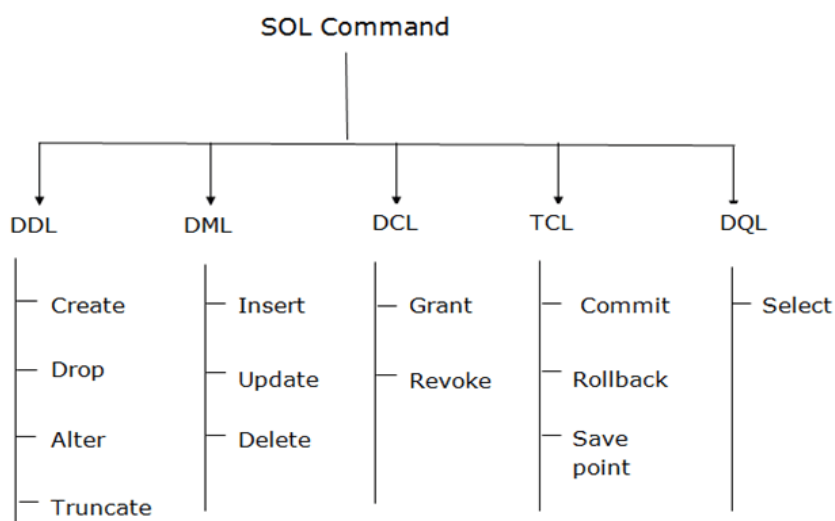
Q2 : What are DDL and DML Commands?

Ans : DDL is Data Definition Language which is used to define data structures.

For example: create table, alter table.

DML is Data Manipulation Language which is used to manipulate data itself.

For example: UPDATE, INSERT, MERGE etc.



OPERATIONS TO BE EXECUTED:

1. create database akash_db;
2. show databases;
3. use akash_db;
4. drop akash_db;
5. select database();
6. create table student_details(student_id int,student_name varchar(50), student_marks int);
7. describe student_details;
8. show create table student_details;
9. show columns from student_details;
10. insert into student_details values(1, "Akash", 20);
11. insert into student_details values(2, "Yatharth",10),(3,"Vivek",15);
12. select * from student_details;
13. select student_id from student_details;
14. select * from student_details where student_id = 2;
15. insert into student_details(student_id,student_name) values (4,"Manav");
16. select * from student_details where student_marks is NULL;
17. insert into student_details values(5, "Dev\"Quotes\"",14);
18. insert into student_details values(6, "Preet\\Quotes\\",15);
19. insert into student_details values(6, "Preet'Quotes'",16); (**Allowed as dissimilar quotes**)
20. insert into student_details values(7, "Mohit", NULL);
21. alter table student_details add student_address varchar(100);
22. alter table student_details drop student_address;
23. alter table student_details modify student_id varchar(50);
24. desc student_details;
25. alter table student_details change student_name s_name varchar(50);
26. update student_details set s_name = "Akash Kumar" where s_name = "Akash";
27. update student_details set student_marks =18 where student_marks is null;
28. delete from student_details where student_marks = 15;
29. truncate table student_details;
30. rename table student_details to s_details;
31. drop table s_details;
32. select now();
33. select user();
34. select curdate();
35. select curtime();
36. create table people(name VARCHAR(100),birthdate DATE, birthtime TIME, birthdt DATETIME);
37. insert into people values("Akash","2004-03-07","11:00:00","2004-03-07 11:00:00");
38. insert into people values("Dev",CURDATE(),CURTIME(),NOW());

```

39. select      birthdate, DAY(birthdate), DAYOFWEEK(birthdate), DAYOFYEAR(birthdate)
    from people;
40. select birthdate, MONTHNAME(birthdate), YEAR(birthdate) from people;
41. select birthtime, HOUR(birthtime), MINUTE(birthtime) from people;
42. select  birthdt, MONTH(birthdt), DAY(birthdt), HOUR(birthdt),  MINUTE(birthdt)  from
    people;
43. select DATEDIFF(CURDATE(), birthdate) from people;
44. select DATEDIFF(CURDATE(), birthdt) from people;
45. select DATE_ADD(CURDATE(), INTERVAL 1 YEAR);
46. select DATE_ADD(birthdate, INTERVAL 1 YEAR) from people;
47. select DATE_ADD(CURDATE(), INTERVAL 12 YEAR);
48. select DATE_SUB(CURDATE(), INTERVAL 1 MONTH);
49. select birthdate, DATE_FORMAT(birthdate, "%a,%b,%D") from people;
50. select birthdt, DATE_FORMAT(birthdt, "%H:%i") from people;
51. select birthdt, DATE_FORMAT(birthdt, "BORN ON:%r") from people;
52. create  table  captions(text  VARCHAR(150), created_at  TIMESTAMP  default
    CURRENT_TIMESTAMP);
53. insert into captions (text) values ("text1");
54. create  table  captions2  (text  varchar(100), created_at  TIMESTAMP  default
    CURRENT_TIMESTAMP, updated_at  TIMESTAMP  ON  UPDATE
    CURRENT_TIMESTAMP);
55. insert into captions2 (text) values (text2);
56. update captions2 set text = "text3";

```

CODE:

Enter password: ****

Welcome to the MariaDB monitor. Commands end with ; or \g.

Your MariaDB connection id is 3

Server version: 10.6.11-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)]> create database akash_db
```

```
-> ;
```

```
Query OK, 1 row affected (0.026 sec)
```

```
MariaDB [(none)]> show databases;
```

```
+-----+
```

```
| Database      |
```

```
+-----+
```

```
| akash_db      |
```

```
| information_schema |
```

```
| mysql         |
```

```
| performance_schema |
```

```
| sys           |
```

```
+-----+
```

```
5 rows in set (0.005 sec)
```

```
MariaDB [(none)]> use akash_db;
```

```
Database changed
```

```
MariaDB [akash_db]> select akash_db;
```

```
ERROR 1054 (42S22): Unknown column 'akash_db' in 'field list'
```

```
MariaDB [akash_db]> drop akash_db;
```

```
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 'akash_db' at line 1
```

```
MariaDB [akash_db]> drop database akash_db;
```

```
Query OK, 0 rows affected (0.427 sec)
```

```
MariaDB [(none)]> select database();
```

```
+-----+
```

```
| database() |
```

```
+-----+
```

```
| NULL |
```

```
+-----+
```

1 row in set (0.001 sec)

MariaDB [(none)]> create database akash_db;

Query OK, 1 row affected (0.002 sec)

MariaDB [(none)]> use akash_db;

Database changed

MariaDB [akash_db]> create table student_details(student_id int,student_name varchar(50),
student_marks int);

Query OK, 0 rows affected (0.868 sec)

MariaDB [akash_db]> describe student_details;

```
+-----+-----+-----+-----+-----+-----+
```

```
| Field      | Type      | Null | Key | Default | Extra |
```

```
+-----+-----+-----+-----+-----+-----+
```

```
| student_id | int(11)   | YES  |     | NULL    |      |
```

```
| student_name | varchar(50) | YES  |     | NULL    |      |
```

```
| student_marks | int(11)   | YES  |     | NULL    |      |
```

```
+-----+-----+-----+-----+-----+-----+
```

3 rows in set (1.345 sec)

MariaDB [akash_db]> show create table student_details;

```
+-----+-----+-----+-----+-----+-----+
```

```
+-----+-----+-----+-----+-----+-----+
```

```
-----+
```

```
|      Table      | Create Table
```

```

+-----+-----+-----+-----+
-----+
| student_details | CREATE TABLE `student_details` (
  `student_id` int(11) DEFAULT NULL,
  `student_name` varchar(50) DEFAULT NULL,
  `student_marks` int(11) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1 COLLATE=latin1_swedish_ci |
+-----+-----+-----+-----+
-----+
1 row in set (0.110 sec)

```

MariaDB [akash_db]> show columns from student_details;

```

+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| student_id | int(11)   | YES  |     | NULL    |       |
| student_name | varchar(50) | YES  |     | NULL    |       |
| student_marks | int(11)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.053 sec)

```

MariaDB [akash_db]> insert into student_details values(1, "Akash", 20);

Query OK, 1 row affected (1.564 sec)

MariaDB [akash_db]> insert into student_details values(2, "Yatharth",10,(3,"Vivek",15);

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 " at line 1

MariaDB [akash_db]> insert into student_details values(2, "Yatharth",10),(3,"Vivek",15);

Query OK, 2 rows affected (0.350 sec)

Records: 2 Duplicates: 0 Warnings: 0

MariaDB [akash_db]> show columns from student_details;

Field	Type	Null	Key	Default	Extra
student_id	int(11)	YES		NULL	
student_name	varchar(50)	YES		NULL	
student_marks	int(11)	YES		NULL	

3 rows in set (1.680 sec)

MariaDB [akash_db]> select * from student_details;

student_id	student_name	student_marks
1	Akash	20
2	Yatharth	10
3	Vivek	15

3 rows in set (0.001 sec)

MariaDB [akash_db]> select student_id from student_details;

student_id
1

2
3

3 rows in set (0.000 sec)

MariaDB [akash_db]> select student_id,student_marks from student_details;

student_id	student_marks
------------	---------------

1	20
2	10
3	15

3 rows in set (0.000 sec)

MariaDB [akash_db]> select * from student_details where student_id = 2;

student_id	student_name	student_marks
------------	--------------	---------------

2	Yatharth	10
---	----------	----

1 row in set (0.343 sec)

MariaDB [akash_db]> insert into student_details(student_id,student_name) values (4,"Manav");

Query OK, 1 row affected (0.211 sec)

MariaDB [akash_db]> select * from student_details where student_marks is NULL;

student_id	student_name	student_marks
------------	--------------	---------------

student_id	student_name	student_marks
------------	--------------	---------------

4	Manav	NULL
---	-------	------

4	Manav	NULL
---	-------	------

4	Manav	NULL
---	-------	------

1 row in set (0.053 sec)

MariaDB [akash_db]> insert into student_details values(5, "Dev\"Quotes\"",14);

ERROR: Unknown command "\".

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 '\"',14)' at line 1

MariaDB [akash_db]> insert into student_details values(5, "Dev/"Quotes"/",14);

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 'Quotes"/',14)' at line 1

MariaDB [akash_db]> insert into student_details values(5, "Dev\"Quotes\"",14);

Query OK, 1 row affected (0.058 sec)

MariaDB [akash_db]> insert into student_details values(6, "Preet\\Quotes\\",15);

Query OK, 1 row affected (0.039 sec)

MariaDB [akash_db]> insert into student_details values(6, "Preet'Quotes'",16);

Query OK, 1 row affected (0.107 sec)

MariaDB [akash_db]> select * from student_details;

1	Akash	20
2	Yatharth	10

student_id	student_name	student_marks
------------	--------------	---------------

1	Akash	20
2	Yatharth	10

1	Akash	20
2	Yatharth	10

1	Akash	20
2	Yatharth	10

3	Vivek	15
4	Manav	NULL
5	Dev"Quotes"	14
6	Preet\Quotes\	15
6	Preet'Quotes'	16

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

7 rows in set (0.001 sec)

MariaDB [akash_db]> insert into student_details values(7, "Mohit", NULL);

Query OK, 1 row affected (0.099 sec)

MariaDB [akash_db]> alter table student_details add student_address;

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 " at line 1

MariaDB [akash_db]> alter table student_details add student_address varchar(100);

Query OK, 0 rows affected (0.636 sec)

Records: 0 Duplicates: 0 Warnings: 0

MariaDB [akash_db]> alter table student_details drop student_address;

Query OK, 0 rows affected (0.507 sec)

Records: 0 Duplicates: 0 Warnings: 0

MariaDB [akash_db]> alter table student_details modify student_id varchar(50);

Query OK, 8 rows affected (0.835 sec)

Records: 8 Duplicates: 0 Warnings: 0

MariaDB [akash_db]> describe student_details;

Field	Type	Null	Key	Default	Extra
-------	------	------	-----	---------	-------

```

+-----+-----+-----+-----+
| student_id | varchar(50) | YES | | NULL | |
| student_name | varchar(50) | YES | | NULL | |
| student_marks | int(11) | YES | | NULL | |
+-----+-----+-----+-----+
3 rows in set (0.084 sec)

```

MariaDB [akash_db]> desc student_details;

```

+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+
| student_id | varchar(50) | YES | | NULL | |
| student_name | varchar(50) | YES | | NULL | |
| student_marks | int(11) | YES | | NULL | |
+-----+-----+-----+-----+
3 rows in set (0.018 sec)

```

MariaDB [akash_db]> alter table student_details student_name s_name varchar(50);

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 's_name varchar(50)' at line 1

MariaDB [akash_db]> alter table student_details change student_name s_name varchar(50);

Query OK, 0 rows affected (0.339 sec)

Records: 0 Duplicates: 0 Warnings: 0

MariaDB [akash_db]> desc student_details;

```

+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+

```

student_id	varchar(50)	YES		NULL		
s_name	varchar(50)	YES		NULL		
student_marks	int(11)	YES		NULL		

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

3 rows in set (0.032 sec)

MariaDB [akash_db]> updatestudnet_details set s_name = "Akash Kumar" where s_name = "Akash";

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 'updatestudnet_details set s_name = "Akash Kumar" where s_name = "Akash"' at line 1

MariaDB [akash_db]> update student_details set s_name = "Akash Kumar" where s_name = "Akash";

Query OK, 1 row affected (0.214 sec)

Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [akash_db]> select * from student_details;

student_id	s_name	student_marks
------------	--------	---------------

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

1	Akash Kumar	20
2	Yatharth	10
3	Vivek	15
4	Manav	NULL
5	Dev"Quotes"	14
6	Preet\Quotes\	15
6	Preet'Quotes'	16
7	Mohit	NULL

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

8 rows in set (0.001 sec)

MariaDB [akash_db]> update student_details set student_age =18 where student_age is null;

ERROR 1054 (42S22): Unknown column 'student_age' in 'where clause'

MariaDB [akash_db]> update student_details set student_marks =18 where student_marks is null;

Query OK, 2 rows affected (0.061 sec)

Rows matched: 2 Changed: 2 Warnings: 0

MariaDB [akash_db]> select * from student_detials;

ERROR 1146 (42S02): Table 'akash_db.student_detials' doesn't exist

MariaDB [akash_db]> select * from student_details;

student_id	s_name	student_marks
1	Akash Kumar	20
2	Yatharth	10
3	Vivek	15
4	Manav	18
5	Dev"Quotes"	14
6	Preet\Quotes\	15
6	Preet'Quotes'	16
7	Mohit	18

8 rows in set (0.001 sec)

MariaDB [akash_db]> delete from student_details where student_marks = 15;

Query OK, 2 rows affected (0.166 sec)

MariaDB [akash_db]> select * from student_details;

```

+-----+-----+-----+
| student_id | s_name      | student_marks |
+-----+-----+-----+
| 1          | Akash Kumar | 20            |
| 2          | Yatharth    | 10            |
| 4          | Manav       | 18            |
| 5          | Dev"Quotes" | 14            |
| 6          | Preet'Quotes'| 16            |
| 7          | Mohit       | 18            |
+-----+-----+-----+

```

6 rows in set (0.000 sec)

MariaDB [akash_db]> truncate table student_details;

Query OK, 0 rows affected (0.259 sec)

MariaDB [akash_db]> rename table student_details to s_details;

Query OK, 0 rows affected (0.262 sec)

MariaDB [akash_db]> select * from s_details;

Empty set (0.002 sec)

MariaDB [akash_db]> drop table s_details;

Query OK, 0 rows affected (0.354 sec)

MariaDB [akash_db]> show tables from database akash_db;

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 'database akash_db' at line 1

MariaDB [akash_db]> show tables;

Empty set (0.001 sec)

MariaDB [akash_db]> select now();

```
+-----+
| now()      |
+-----+
| 2023-01-28 17:06:06 |
+-----+
```

1 row in set (0.065 sec)

MariaDB [akash_db]> select user();

```
+-----+
| user()      |
+-----+
| root@localhost |
+-----+
```

1 row in set (0.001 sec)

MariaDB [akash_db]> select curdate();

```
+-----+
| curdate() |
+-----+
| 2023-01-28 |
+-----+
```

1 row in set (0.030 sec)

MariaDB [akash_db]> select curtime();

```
+-----+
```

```
| curtime() |
```

```
+-----+
```

```
| 17:06:33 |
```

```
+-----+
```

```
1 row in set (0.140 sec)
```

```
MariaDB [akash_db]> create table people(name VARCHAR(100),birthdate DATE, birthtime  
TIME, birthdt DATETIME);
```

```
Query OK, 0 rows affected (0.585 sec)
```

```
MariaDB [akash_db]> insert into people values("Akash","2004-03-07","11:00:00","2004-03-07  
11:00:00");
```

```
Query OK, 1 row affected (0.092 sec)
```

```
MariaDB [akash_db]> insert into people values("Dev",CURDATE(),CURTIME(),NOW());
```

```
Query OK, 1 row affected (0.047 sec)
```

```
MariaDB [akash_db]> select  
birthdate,DAY(birthdate),DAYOFWEEK(birthdate),DAYOFYEAR(birthdate) from people;
```

```
+-----+-----+-----+-----+
```

```
| birthdate | DAY(birthdate) | DAYOFWEEK(birthdate) | DAYOFYEAR(birthdate) |
```

```
+-----+-----+-----+-----+
```

```
| 2004-03-07 | 7 | 1 | 67 |
```

```
| 2023-01-28 | 28 | 7 | 28 |
```

```
+-----+-----+-----+-----+
```

```
2 rows in set (0.060 sec)
```

```
MariaDB [akash_db]> select birthdate,MONTHNAME(birthdate),YEAR(birthdate) from  
people;
```

```
+-----+-----+-----+
```



```
| birthdate | MONTHNAME(birthdate) | YEAR(birthdate) |
```

```
+-----+-----+-----+
```

```
| 2004-03-07 | March          | 2004 |
```

```
| 2023-01-28 | January        | 2023 |
```

```
+-----+-----+-----+
```

2 rows in set (0.014 sec)

```
MariaDB [akash_db]> select birthtime, HOUR(birthtime), MINUTE(birthtime) from people;
```

```
+-----+-----+-----+
```

```
| birthtime | HOUR(birthtime) | MINUTE(birthtime) |
```

```
+-----+-----+-----+
```

```
| 11:00:00 | 11 | 0 |
```

```
| 17:09:07 | 17 | 9 |
```

```
+-----+-----+-----+
```

2 rows in set (0.000 sec)

```
MariaDB [akash_db]> select birthdt, MONTH(birthdt), DAY(birthdt), HOUR(birthdt), MINUTE(birthdt) from people;
```

```
+-----+-----+-----+-----+-----+
```

```
| birthdt      | MONTH(birthdt) | DAY(birthdt) | HOUR(birthdt) | MINUTE(birthdt) |
```

```
+-----+-----+-----+-----+-----+
```

```
| 2004-03-07 11:00:00 | 3 | 7 | 11 | 0 |
```

```
| 2023-01-28 17:09:07 | 1 | 28 | 17 | 9 |
```

```
+-----+-----+-----+-----+-----+
```

2 rows in set (0.001 sec)

```
MariaDB [akash_db]> select DATEDIFF(CURDATE(), birthdate) from people;
```

```
+-----+
```

```
| DATEDIFF(CURDATE(), birthdate) |
```

6901
0

2 rows in set (0.045 sec)

MariaDB [akash_db]> select DATEDIFF(CURDATE(),birthdt) from people;

DATEDIFF(CURDATE(),birthdt)
6901
0

2 rows in set (0.001 sec)

MariaDB [akash_db]> select DATE_ADD(CURDATE(),INTERVAL 1 YEAR);

DATE_ADD(CURDATE(),INTERVAL 1 YEAR)
2024-01-28

1 row in set (0.034 sec)

MariaDB [akash_db]> select DATE_ADD(birthdate,INTERVAL 1 YEAR) from people;

DATE_ADD(birthdate,INTERVAL 1 YEAR)
2005-03-07

2024-01-28

2 rows in set (0.000 sec)

MariaDB [akash_db]> select DATE_ADD(CURDATE(),INTERVAL 12 YEAR);

DATE_ADD(CURDATE(),INTERVAL 12 YEAR)
2035-01-28

1 row in set (0.000 sec)

MariaDB [akash_db]> select DATE_SUB(CURDATE(),INTERVAL 1 MONTH);

DATE_SUB(CURDATE(),INTERVAL 1 MONTH)
2022-12-28

1 row in set (0.000 sec)

MariaDB [akash_db]> select birthdate, DATE_FORMAT(birthdate,"%a,%b,%D") from people;

birthdate	DATE_FORMAT(birthdate,"%a,%b,%D")
2004-03-07	Sun,Mar,7th
2023-01-28	Sat,Jan,28th

2 rows in set (0.001 sec)

MariaDB [akash_db]> select birthdt, DATE_FORMAT(birthdt,"%H:%i") from people;

birthdt	DATE_FORMAT(birthdt,"%H:%i")
2004-03-07 11:00:00	11:00
2023-01-28 17:09:07	17:09

2 rows in set (0.001 sec)

MariaDB [akash_db]> select birthdt, DATE_FORMAT(birthdt,"BORN ON:%r") from people;

birthdt	DATE_FORMAT(birthdt,"BORN ON:%r")
2004-03-07 11:00:00	BORN ON:11:00:00 AM
2023-01-28 17:09:07	BORN ON:05:09:07 PM

2 rows in set (0.001 sec)

MariaDB [akash_db]> create table captions(text VARCHAR(150),created_at TIMESTAMP default CURRENT_TIMESTAMP);

Query OK, 0 rows affected (0.335 sec)

MariaDB [akash_db]> desc captions;

Field	Type	Null	Key	Default	Extra
text	varchar(150)	YES		NULL	
created_at	timestamp	NO		current_timestamp()	

```
+-----+-----+-----+-----+-----+
```

2 rows in set (0.032 sec)

MariaDB [akash_db]> insert into captions (text) values ("text1");

Query OK, 1 row affected (0.039 sec)

MariaDB [akash_db]> create table captions2 (text varchar(100),created_at TIMESTAMP default CURRENT_TIMESTAMP,updated_at TIMESTAMP ON UPDATE CURRENT_TIMESTAMP);

Query OK, 0 rows affected (0.303 sec)

MariaDB [akash_db]> insert into captions2 (text) values (text2);

ERROR 1054 (42S22): Unknown column 'text2' in 'field list'

MariaDB [akash_db]> insert into captions2 (text) values (text2);

ERROR 1054 (42S22): Unknown column 'text2' in 'field list'

MariaDB [akash_db]> insert into captions2 (text) values ("text2");

Query OK, 1 row affected (0.104 sec)

MariaDB [akash_db]> slect * from captions2;

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 'slect * from captions2' at line 1

MariaDB [akash_db]> select * from captions2;

```
+-----+-----+-----+
```

```
| text | created_at      | updated_at      |
```

```
+-----+-----+-----+
```

```
| text2 | 2023-01-28 17:19:31 | 0000-00-00 00:00:00 |
```

```
+-----+-----+-----+
```

1 row in set (0.001 sec)

```
MariaDB [akash_db]> update captions2 set text = "text3";
```

```
Query OK, 1 row affected (0.046 sec)
```

```
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [akash_db]> select * from captions2;
```

```
+-----+-----+-----+
| text | created_at      | updated_at      |
+-----+-----+-----+
| text3 | 2023-01-28 17:19:31 | 2023-01-28 17:20:00 |
+-----+-----+-----+
```

```
1 row in set (0.000 sec)
```

```
MariaDB [akash_db]> Bye
```

```
Ctrl-C -- exit!
```

```
C:\Program Files\MariaDB 10.6\bin>
```

SCREENSHOTS:

```
MySQL Client (MariaDB 10.6 (x64))
Enter password: ****
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 3
Server version: 10.6.11-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)]> create database akash_db
-> ;
Query OK, 1 row affected (0.026 sec)

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| akash_db |
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
5 rows in set (0.005 sec)

MariaDB [(none)]> use akash_db;
Database changed
MariaDB [akash_db]> select akash_db;
ERROR 1054 (42S22): Unknown column 'akash_db' in 'field list'
MariaDB [akash_db]> drop akash_db;
ERROR 1054 (42S00): 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 'akash_db' at line 1
MariaDB [akash_db]> drop database akash_db;
Query OK, 0 rows affected (0.427 sec)

MariaDB [(none)]> select database();
+-----+
| database() |
+-----+
| NULL |
+-----+
1 row in set (0.001 sec)

MariaDB [(none)]> create database akash_db;
```

```
MySQL Client (MariaDB 10.6 (x64))
2022-12-28
+-----+
1 row in set (0.000 sec)

MariaDB [akash_db]> select birthdate, DATE_FORMAT(birthdate,"%a,%b,%d") from people;
+-----+
| birthdate | DATE_FORMAT(birthdate,"%a,%b,%d") |
+-----+
| 2004-03-07 | Sun,Mar,7th |
| 2023-01-28 | Sat,Jan,28th |
+-----+
2 rows in set (0.001 sec)

MariaDB [akash_db]> select birthdt, DATE_FORMAT(birthdt,"%H:%i") from people;
+-----+
| birthdt | DATE_FORMAT(birthdt,"%H:%i") |
+-----+
| 2004-03-07 11:00:00 | 11:00 |
| 2023-01-28 17:09:07 | 17:09 |
+-----+
2 rows in set (0.001 sec)

MariaDB [akash_db]> select birthdt, DATE_FORMAT(birthdt,"BORN ON:%r") from people;
+-----+
| birthdt | DATE_FORMAT(birthdt,"BORN ON:%r") |
+-----+
| 2004-03-07 11:00:00 | BORN ON:11:00:00 AM |
| 2023-01-28 17:09:07 | BORN ON:05:09:07 PM |
+-----+
2 rows in set (0.001 sec)

MariaDB [akash_db]> create table captions(text VARCHAR(150),created_at TIMESTAMP default CURRENT_TIMESTAMP);
Query OK, 0 rows affected (0.335 sec)

MariaDB [akash_db]> desc captions;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| text | varchar(150) | YES | | NULL | |
| created_at | timestamp | NO | | current_timestamp() | |
+-----+
2 rows in set (0.032 sec)

MariaDB [akash_db]> insert into captions (text) values ("text1");
```

CONCLUSION:

Thus we learnt how to set up MariaDB and perform various DDL and DML commands. We created database and tables inside it having various column with different datatypes. We learnt how to insert values to these columns and manipulate the data. We also learnt about timestamps and functions relating to it.