

---->MariaDB [(none)]> use School

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 [School]> delimiter //

MariaDB [School]> create procedure sp\_get() begin select \* from employee1; end //

Query OK, 0 rows affected (0.003 sec)

MariaDB [School]> delimiter;

-> ;

-> //

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 'delimiter' at line 1

MariaDB [School]> delimiter ;

MariaDB [School]> call sp\_get();

```
+-----+-----+-----+-----+
| id | name  | email          | Mobilenos | address |
+-----+-----+-----+-----+
| 1 | avni  | abc123@gmail.com | 3214567890 | abcxyz |
| 2 | anjani | xyz123@gmail.com | 2134564321 | xyzabc |
| 3 | riya  | abc123@gmail.com | 3214567890 | abcxyz |
| 4 | shriya | xyz123@gmail.com | 2134564321 | xyzabc |
| 5 | kajal | abc123@gmail.com | 3214567890 | abcxyz |
| 6 | krishna | xyz123@gmail.com | 3214567890 | xyzabc |
| 7 | shruti | abc123@gmail.com | 3214567890 | abcxyz |
| 8 | dipali | xyz123@gmail.com | 2134564321 | xyzabc |
| 9 | pinal | abc123@gmail.com | 3214567890 | abcxyz |
| 10 | vidhi | xyz123@gmail.com | 2134564321 | xyzabc |
+-----+-----+-----+-----+
```

10 rows in set (0.001 sec)

Query OK, 0 rows affected (0.002 sec)

=====FUNCTION=====

MariaDB [School]> delimiter \$\$

MariaDB [School]> create function Daily\_wages(wage decimal(10,2))

-> returns decimal(10,2)

-> deterministic

-> begin

-> declare daily\_wage decimal(10,2);

-> set daily\_wage = wage \* 8;

-> return(daily\_wage);

-> end \$\$

Query OK, 0 rows affected (0.004 sec)

MariaDB [School]> delimiter ;

MariaDB [School]> select Daily\_wages(50);

```
+-----+
| Daily_wages(50) |
+-----+
```

```
|      400.00 |
+-----+
1 row in set (0.001 sec)
```

=====TRIGGER=====

```
MariaDB [School]> create trigger agecheck before insert on people for each row if NEW.age < 0
-> then set NEW.age = 0; end if ; //
Query OK, 0 rows affected (0.006 sec)
```

```
MariaDB [School]> delimiter ;
MariaDB [School]> insert into people values (-20,'sid'),(30,'josh');
Query OK, 2 rows affected (0.012 sec)
Records: 2 Duplicates: 0 Warnings: 0
```

```
MariaDB [School]> select * from people;
+-----+-----+
| age | name |
+-----+-----+
|  0 | sid  |
| 30 | josh |
+-----+-----+
2 rows in set (0.001 sec)
```

=====TRIGGER AFTER INSERT=====

```
MariaDB [School]> CREATE TABLE members (id INT AUTO_INCREMENT primary key,name
VARCHAR(100) NOT NULL, email VARCHAR(255),birthDate DATE);
Query OK, 0 rows affected (0.014 sec)
```

```
MariaDB [School]> CREATE TABLE reminders(id INT AUTO_INCREMENT,memberId
INT,message VARCHAR(255) NOT NULL,PRIMARY KEY (id , memberId) );
Query OK, 0 rows affected (0.013 sec)
```

```
MariaDB [School]> DELIMITER $$
MariaDB [School]> CREATE TRIGGER after_members_insert
-> AFTER INSERT
-> ON members FOR EACH ROW
-> BEGIN
-> IF NEW.birthDate IS NULL THEN
-> INSERT INTO reminders(memberId, message)
-> VALUES(new.id,CONCAT('Hi ', NEW.name, ', please update your date of birth.'));
-> END IF;
-> END$$
Query OK, 0 rows affected (0.008 sec)
MariaDB [School]> DELIMITER ;
```

```
MariaDB [School]> INSERT INTO members(name, email, birthDate) VALUES('shreya patel' ,
'shreya@gmail.com', NULL);
Query OK, 1 row affected (0.006 sec)
```

```
MariaDB [School]> SELECT * FROM reminders;
```

```

+---+-----+-----+
| id | memberId | message |
+---+-----+-----+
| 1 | 1 | Hi shreya patel, please update your date of birth. |
+---+-----+-----+
1 row in set (0.001 sec)

```

=====UPDATE BEFORE=====

MariaDB [School]> CREATE TABLE person (name varchar(45), age int);  
Query OK, 0 rows affected (0.010 sec)

MariaDB [School]> INSERT INTO person VALUES ('Matthew', 25), ('Mark', 20);  
Query OK, 2 rows affected (0.003 sec)  
Records: 2 Duplicates: 0 Warnings: 0

MariaDB [School]>  
MariaDB [School]>  
MariaDB [School]> delimiter //  
MariaDB [School]> CREATE TRIGGER person\_bu BEFORE UPDATE  
-> ON person  
-> FOR EACH ROW  
-> IF NEW.age < 18 THEN  
-> SIGNAL SQLSTATE '50002' SET MESSAGE\_TEXT = 'Person must be older than 18.' ;  
-> END IF; //  
Query OK, 0 rows affected (0.005 sec)

MariaDB [School]> delimiter ;  
MariaDB [School]> UPDATE person SET age = 17 WHERE name = 'John';  
Query OK, 0 rows affected (0.002 sec)  
Rows matched: 0 Changed: 0 Warnings: 0

MariaDB [School]> UPDATE person SET age = 17 WHERE name = 'Mark';  
ERROR 1644 (50002): Person must be older than 18.

=====AFTER UPDATE=====

MariaDB [School]> CREATE TABLE average\_age (age int);  
Query OK, 0 rows affected (0.016 sec)

MariaDB [School]> delimiter //  
MariaDB [School]> CREATE TRIGGER person\_au AFTER UPDATE  
-> ON person  
-> FOR EACH ROW  
-> UPDATE average\_age SET average = (SELECT AVG(age) FROM person); //  
Query OK, 0 rows affected (0.006 sec)

MariaDB [School]> delimiter ;  
MariaDB [School]> UPDATE person SET age = 21 WHERE name = 'Mark' ;  
ERROR 1054 (42S22): Unknown column 'average' in 'field list'  
MariaDB [School]> UPDATE person SET age = 21 WHERE name = 'john' ;  
Query OK, 0 rows affected (0.001 sec)

Rows matched: 0 Changed: 0 Warnings: 0

=====BEFORE DELETE=====

MariaDB [School]> CREATE TABLE person\_archive (name varchar(45), age int);  
Query OK, 0 rows affected (0.016 sec)

MariaDB [School]> delimiter //

MariaDB [School]> CREATE TRIGGER person\_bd BEFORE DELETE

-> ON person

-> FOR EACH ROW

-> INSERT INTO person\_archive (name, age)

-> VALUES (OLD.name, OLD.age); //

Query OK, 0 rows affected (0.005 sec)

MariaDB [School]> delimiter ;

MariaDB [School]> DELETE FROM person WHERE name = 'John';

Query OK, 0 rows affected (0.003 sec)

MariaDB [School]> DELETE FROM person WHERE name = 'Mark';

Query OK, 1 row affected (0.004 sec)

MariaDB [School]> Select \* from person\_archive;

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

| name | age |

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

| Mark | 20 |

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

1 row in set (0.001 sec)

=====AFTER DELETE=====

MariaDB [School]> delimiter //

MariaDB [School]> CREATE TRIGGER person\_ad AFTER DELETE

-> ON person

-> FOR EACH ROW

-> UPDATE average\_age SET average = (SELECT AVG(person.age) FROM person); //

Query OK, 0 rows affected (0.006 sec)

MariaDB [School]> delimiter ;

MariaDB [School]> DELETE FROM person WHERE name = 'John';

Query OK, 0 rows affected (0.003 sec)

MariaDB [School]> Select \* from average\_age

-> ;

Empty set (0.001 sec)

MariaDB [School]> Select \* from average\_age ;

Empty set (0.001 sec)