

Insert

```
MariaDB [DML_Rulida]> insert into customers (customer_id, first_name, last_name, email_address, number_of_complaints) va
lues
-> (1, Ivan, Rulida, 'rulidaivan@gmail.com', 3),
-> (2, Dirk, Igcalinus, 'Dirk@gmail.com', 5),
-> (3, Saliz, Pag-oy, 'SaligPag@gmail.com', 4);
ERROR 1054 (42S22): Unknown column 'Ivan' in 'field list'
MariaDB [DML_Rulida]> INSERT INTO customers (customer_id, first_name, last_name, email_address, number_of_complaints) VA
LUES
-> (1, 'Ivan', 'Rulida', 'rulidaivan@gmail.com', 3),
-> (2, 'Dirk', 'Igcalinus', 'Dirk@gmail.com', 5),
-> (3, 'Saliz', 'Pag-oy', 'SaligPag@gmail.com', 4);
Query OK, 3 rows affected (0.003 sec)
Records: 3 Duplicates: 0 Warnings: 0

MariaDB [DML_Rulida]> |
```

Select

```
MariaDB [DML_Rulida]> select * from customers where first_name = 'ivan';
+-----+-----+-----+-----+-----+
| customer_id | first_name | last_name | email_address | number_of_complaints |
+-----+-----+-----+-----+-----+
| 1 | Ivan | Rulida | rulidaivan@gmail.com | 3 |
+-----+-----+-----+-----+-----+
1 row in set (0.001 sec)

MariaDB [DML_Rulida]> |
```

Update

```
MariaDB [DML_rulida]> update customers set first_name = 'Ivan Dave' where customer_id = 1;
Query OK, 1 row affected (0.004 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [DML_rulida]> select * from customers;
+-----+-----+-----+-----+-----+
| customer_id | first_name | last_name | email_address | number_of_complaints |
+-----+-----+-----+-----+-----+
| 1 | Ivan Dave | Rulida | rulidaivan@gmail.com | 3 |
| 2 | Dirk | Igcalinus | Dirk@gmail.com | 5 |
| 3 | Saliz | Pag-oy | SaligPag@gmail.com | 4 |
+-----+-----+-----+-----+-----+
3 rows in set (0.000 sec)

MariaDB [DML_rulida]> |
```

Delete

```
MariaDB [DML_rulida]> delete from customers where customer_id = 3;
Query OK, 1 row affected (0.002 sec)

MariaDB [DML_rulida]> select * from customers;
+-----+-----+-----+-----+-----+
| customer_id | first_name | last_name | email_address | number_of_complaints |
+-----+-----+-----+-----+-----+
| 1 | Ivan Dave | Rulida | rulidaivan@gmail.com | 3 |
| 2 | Dirk | Igcalinus | Dirk@gmail.com | 5 |
+-----+-----+-----+-----+-----+
2 rows in set (0.000 sec)

MariaDB [DML_rulida]> |
```

Cascade

```
MariaDB [DML_rulida]> alter table sales add constraint fk_customer_id foreign key(customer_id) references customers(customer_id) on delete cascade on update cascade;
ERROR 1005 (HY000): Can't create table 'dml_rulida`.`sales` (errno: 121 "Duplicate key on write or update")
MariaDB [DML_rulida]> ALTER TABLE sales
-> ADD CONSTRAINT fk_sales_customer
-> FOREIGN KEY (customer_id) REFERENCES customers(customer_id)
-> ON DELETE CASCADE
-> ON UPDATE CASCADE;
Query OK, 0 rows affected (0.091 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [DML_rulida]> desc sales;
+-----+-----+-----+-----+-----+-----+
| Field          | Type   | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| purchase_number | int(10) | NO   | PRI | NULL    |       |
| order_id        | int(10) | NO   | PRI | NULL    |       |
| date_of_purchase | date   | YES  |     | NULL    |       |
| customer_id     | int(10) | YES  | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.017 sec)
```