

Last login: Sat Apr 4 23:23:04 on tty000
Serhiis-MacBook-Pro:~ serhi\$ mysql -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 15
Server version: 8.0.19 MySQL Community Server - GPL

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

```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
4 rows in set (0.01 sec)
```

```
mysql> CREATE DATABASE database_name;
Query OK, 1 row affected (0.04 sec)
```

```
mysql> CREATE DATABASE soap_store;
Query OK, 1 row affected (0.01 sec)
```

```
mysql> DROP DATABASE hello_world_db;
ERROR 1008 (HY000): Can't drop database 'hello_world_db'; database doesn't exist
mysql> USE dog_walking_app;
ERROR 1049 (42000): Unknown database 'dog_walking_app'
mysql>
mysql> SELECT database();
```

```
+-----+
| database() |
+-----+
| NULL |
+-----+
1 row in set (0.00 sec)
```

```
mysql> CREATE TABLE tablename
```

```
-> (
->     column_name data_type,
->     column_name data_type
-> );
```

```
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 'data_type, column_name data_type)' at line 3
```

```
mysql> CREATE TABLE cats
```

```
-> (
->     name VARCHAR(100),
->     age INT
-> );CREATE TABLE tablename
```

```
ERROR 1046 (3D000): No database selected
```

```
-> (
->     column_name data_type,
->     column_name data_type
-> );
```

```
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 'data_type, column_name data_type' at line 3
```

```
mysql>
```

```
mysql>
```

```
mysql> CREATE TABLE tablename
```

```
-> (
->     column_name data_type,
->     column_name data_type
-> );
```

```
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 'data_type, column_name data_type)' at line 3
```

```
mysql>
```

```
mysql>
```

```
mysql> CREATE TABLE cats
```

```
-> (
->     name VARCHAR(100),
->     age INT
-> );
```

```
ERROR 1046 (3D000): No database selected
```

```
mysql> show databases;
```

```
+-----+
| Database |
+-----+
| database_name |
| information_schema |
| mysql |
| performance_schema |
| soap_store |
| sys |
+-----+
6 rows in set (0.00 sec)
```

```
mysql> DROP DATABASE database_name;
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> show databases;
```

```
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| soap_store |
| sys |
+-----+
5 rows in set (0.00 sec)
```

```
mysql> show databases;
```

```
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| soap_store |
| sys |
+-----+
5 rows in set (0.01 sec)
```

```
mysql> USE soap_store;
```

```
Database changed
```

```
mysql> SELECT database();
```

```
+-----+
| database() |
+-----+
| soap_store |
+-----+
1 row in set (0.00 sec)
```

```
mysql>
```

```
mysql>
```

```
mysql> CREATE TABLE cats ( name VARCHAR(100), age INT );
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> SHOW TABLES;
```

```
+-----+
| Tables_in_soap_store |
+-----+
| cats |
+-----+
1 row in set (0.01 sec)
```

```
mysql>
```

```
mysql>
```

```
mysql> SHOW COLUMNS FROM tablename;
```

```
ERROR 1146 (42S02): Table 'soap_store.tablename' doesn't exist
```

```
mysql> SHOW COLUMNS FROM cats;
```

```
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| name | varchar(100) | YES | | NULL | |
| age | int | YES | | NULL | |
+-----+
2 rows in set (0.01 sec)
```

```
mysql>
```

```
mysql>
```

```
mysql> DESC tablename;
```

```
ERROR 1146 (42S02): Table 'soap_store.tablename' doesn't exist
```

```
mysql>
```

```
mysql>
```

```
mysql> DESC cats;
```

```
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| name | varchar(100) | YES | | NULL | |
+-----+
```

```

| age | int | YES | | NULL | | |
+-----+
2 rows in set (0.00 sec)

mysql> SELECT database();
+-----+
| database() |
+-----+
| soap_store |
+-----+
1 row in set (0.00 sec)

mysql>
mysql>
mysql> DROP TABLE cats;
Query OK, 0 rows affected (0.02 sec)

mysql> CREATE TABLE pastries
-> (
->   name VARCHAR(50),
->   quantity INT
-> );
Query OK, 0 rows affected (0.01 sec)

mysql> SHOW TABLES;
+-----+
| Tables_in_soap_store |
+-----+
| pastries |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> DESC pastries;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| name | varchar(50) | YES | | NULL | |
| quantity | int | YES | | NULL | |
+-----+
2 rows in set (0.01 sec)

mysql>
mysql> DROP TABLE pastries;
Query OK, 0 rows affected (0.01 sec)

mysql>
mysql>
mysql> INSERT INTO cats(name, age) VALUES ('Jetson', 7);
ERROR 1146 (42S02): Table 'soap_store.cats' doesn't exist
mysql>
mysql> SHOW TABLES;
Empty set (0.03 sec)

mysql> CREATE TABLE cats ( name VARCHAR(100), age INT );
Query OK, 0 rows affected (0.04 sec)

mysql> INSERT INTO cats(name, age) VALUES ('Jetson', 7);
Query OK, 1 row affected (0.03 sec)

mysql> SELECT * FROM cats;
+-----+
| name | age |
+-----+
| Jetson | 7 |
+-----+
1 row in set (0.00 sec)

mysql> INSERT INTO table_name
-> (column_name, column_name)
-> VALUES (value, value),
-> (value, value),
-> (value, value);
ERROR 1146 (42S02): Table 'soap_store.table_name' doesn't exist
mysql>
mysql>
mysql> SHOW TABLES;
+-----+
| Tables_in_soap_store |
+-----+
| cats |
+-----+
1 row in set (0.01 sec)

mysql>
mysql>
mysql> DROP TABLE people;
ERROR 1051 (42S02): Unknown table 'soap_store.people'
mysql> CREATE TABLE people
-> (
->   first_name VARCHAR(20),
->   last_name VARCHAR(20),
->   age INT
-> );
Query OK, 0 rows affected (0.02 sec)

mysql> INSERT INTO people(first_name, last_name, age)
-> VALUES ('Tina', 'Belcher', 13);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO people(age, last_name, first_name)
-> VALUES (42, 'Belcher', 'Bob');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO people(first_name, last_name, age)
-> VALUES('Linda', 'Belcher', 45)
-> ,('Phillip', 'Fronnd', 38)
-> ,('Calvin', 'Fischhoeder', 70);
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql> SELECT * FROM people;
+-----+
| first_name | last_name | age |
+-----+
| Tina | Belcher | 13 |
| Bob | Belcher | 42 |
| Linda | Belcher | 45 |
| Phillip | Fronnd | 38 |
| Calvin | Fischhoeder | 70 |
+-----+
5 rows in set (0.00 sec)

mysql>
mysql>
mysql> show tables;
+-----+
| Tables_in_soap_store |
+-----+
| cats |
| people |
+-----+
2 rows in set (0.00 sec)

mysql> DESC cats;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| name | varchar(100) | YES | | NULL | |
| age | int | YES | | NULL | |
+-----+
2 rows in set (0.01 sec)

mysql> INSERT INTO cats(name, age)
-> VALUES('This is some text blah blah blah text text something about cats lalalala meowwwwwwwwww', 10);
ERROR 1406 (22001): Data too long for column 'name' at row 1
mysql>
mysql> SHOW WARNINGS;
+-----+
| Level | Code | Message |
+-----+
| Error | 1406 | Data too long for column 'name' at row 1 |
+-----+
1 row in set (0.00 sec)

mysql> INSERT INTO cats(name, age) VALUES('Lima', 'dsfasdfdas');
ERROR 1366 (HY000): Incorrect integer value: 'dsfasdfdas' for column 'age' at row 1
mysql> SHOW WARNINGS;
+-----+
| Level | Code | Message |
+-----+
| Error | 1366 | Incorrect integer value: 'dsfasdfdas' for column 'age' at row 1 |
+-----+
1 row in set (0.00 sec)

mysql> INSERT INTO cats(name) VALUES('Alabama');
Query OK, 1 row affected (0.01 sec)

mysql>
mysql>
mysql> SELECT * FROM cats;
+-----+

```

```

| name | age |
+-----+-----+
| Jetson | 7 |
| Alabama | NULL |
+-----+-----+
2 rows in set (0.00 sec)

mysql>
mysql> INSERT INTO cats() VALUES();
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> SELECT * FROM cats;
+-----+-----+
| name | age |
+-----+-----+
| Jetson | 7 |
| Alabama | NULL |
| NULL | NULL |
+-----+-----+
3 rows in set (0.00 sec)

mysql> CREATE TABLE cats2
-> (
->   name VARCHAR(100) NOT NULL,
->   age INT NOT NULL
-> );
Query OK, 0 rows affected (0.01 sec)

mysql> DESC cats;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| name | varchar(100) | YES | | NULL | |
| age | int | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> DESC cats2;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| name | varchar(100) | NO | | NULL | |
| age | int | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> INSERT INTO cats2(name) VALUES('Texas');
ERROR 1364 (HY000): Field 'age' doesn't have a default value
mysql>
mysql> SELECT * FROM cats2;
Empty set (0.00 sec)

mysql> SHOW WARNINGS;
Empty set (0.00 sec)

mysql>
mysql>
mysql> INSERT INTO cats2(name) VALUES('Texas');
ERROR 1364 (HY000): Field 'age' doesn't have a default value
mysql> SHOW WARNINGS;
+-----+-----+-----+
| Level | Code | Message |
+-----+-----+-----+
| Error | 1364 | Field 'age' doesn't have a default value |
+-----+-----+-----+
1 row in set (0.00 sec)

mysql>
mysql>
mysql> INSERT INTO cats2(age) VALUES(7);
ERROR 1364 (HY000): Field 'name' doesn't have a default value
mysql>
mysql> SHOW WARNINGS;
+-----+-----+-----+
| Level | Code | Message |
+-----+-----+-----+
| Error | 1364 | Field 'name' doesn't have a default value |
+-----+-----+-----+
1 row in set (0.00 sec)

mysql>
mysql>
mysql> CREATE TABLE cats3
-> (
->   name VARCHAR(20) DEFAULT 'no name provided',
->   age INT DEFAULT 99
-> );
Query OK, 0 rows affected (0.01 sec)

mysql>
mysql>
mysql> DESC cats3;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| name | varchar(20) | YES | | no name provided | |
| age | int | YES | | 99 | |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.01 sec)

mysql> INSERT INTO cats3(age) VALUES(13);
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO cats3() VALUES();
Query OK, 1 row affected (0.01 sec)

mysql> CREATE TABLE cats4
-> (
->   name VARCHAR(20) NOT NULL DEFAULT 'unnamed',
->   age INT NOT NULL DEFAULT 99
-> );
Query OK, 0 rows affected (0.01 sec)

mysql>
mysql>
mysql> INSERT INTO cats() VALUES();
Query OK, 1 row affected (0.01 sec)

mysql> SELECT * FROM cats;
+-----+-----+
| name | age |
+-----+-----+
| Jetson | 7 |
| Alabama | NULL |
| NULL | NULL |
+-----+-----+
4 rows in set (0.00 sec)

mysql>
mysql> INSERT INTO cats3() VALUES();
Query OK, 1 row affected (0.00 sec)

mysql> SELECT * FROM cats3;
+-----+-----+
| name | age |
+-----+-----+
| no name provided | 13 |
| no name provided | 99 |
| no name provided | 99 |
+-----+-----+
3 rows in set (0.00 sec)

mysql>
mysql> INSERT INTO cats3(name, age) VALUES('Montana', NULL);
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> SELECT * FROM cats3;
+-----+-----+
| name | age |
+-----+-----+
| no name provided | 13 |
| no name provided | 99 |
| no name provided | 99 |
| Montana | NULL |
+-----+-----+
4 rows in set (0.00 sec)

mysql>
mysql> SELECT * FROM cats3;
+-----+-----+
| name | age |
+-----+-----+
| no name provided | 13 |
| no name provided | 99 |
| no name provided | 99 |
+-----+-----+

```

```

| Montana | NULL |
+-----+
4 rows in set (0.00 sec)

mysql>
mysql> INSERT INTO cats4(name, age) VALUES('Cali', NULL);
ERROR 1048 (23000): Column 'age' cannot be null
mysql>
mysql>
mysql> INSERT INTO cats4(name, age) VALUES('Cali', NULL);
ERROR 1048 (23000): Column 'age' cannot be null
mysql>
mysql> DESC cats3;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| name | varchar(20) | YES | | no name provided | |
| age | int | YES | | 99 | |
+-----+
2 rows in set (0.00 sec)

mysql>
mysql>
mysql> DESC cats4;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| name | varchar(20) | NO | | unnamed | |
| age | int | NO | | 99 | |
+-----+
2 rows in set (0.00 sec)

mysql> DESC cats2;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| name | varchar(100) | NO | | NULL | |
| age | int | NO | | NULL | |
+-----+
2 rows in set (0.00 sec)

mysql> DESC cats;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| name | varchar(100) | YES | | NULL | |
| age | int | YES | | NULL | |
+-----+
2 rows in set (0.00 sec)

mysql>
mysql>
mysql>
mysql>
mysql> CREATE TABLE unique_cats
-> (
-> cat_id INT NOT NULL,
-> name VARCHAR(100),
-> age INT,
-> PRIMARY KEY (cat_id)
-> );
Query OK, 0 rows affected (0.01 sec)

mysql>
mysql>
mysql> DESC unique_cats;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| cat_id | int | NO | PRI | NULL | |
| name | varchar(100) | YES | | NULL | |
| age | int | YES | | NULL | |
+-----+
3 rows in set (0.00 sec)

mysql>
mysql> INSERT INTO unique_cats(cat_id, name, age) VALUES(1, 'Fred', 23);
Query OK, 1 row affected (0.01 sec)

mysql>
mysql> INSERT INTO unique_cats(cat_id, name, age) VALUES(2, 'Louise', 3);
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO unique_cats(cat_id, name, age) VALUES(1, 'James', 3);
ERROR 1062 (23000): Duplicate entry '1' for key 'unique_cats.PRIMARY'
mysql>
mysql>
mysql> SELECT * FROM unique_cats;
+-----+
| cat_id | name | age |
+-----+
| 1 | Fred | 23 |
| 2 | Louise | 3 |
+-----+
2 rows in set (0.00 sec)

mysql>
mysql>
mysql>
mysql> CREATE TABLE unique_cats2 (
-> cat_id INT NOT NULL AUTO_INCREMENT,
-> name VARCHAR(100),
-> age INT,
-> PRIMARY KEY (cat_id)
-> );
Query OK, 0 rows affected (0.01 sec)

mysql> INSERT INTO unique_cats2(name, age) VALUES('Skippy', 4);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO unique_cats2(name, age) VALUES('Jiff', 3);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO unique_cats2(name, age) VALUES('Jiff', 3);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO unique_cats2(name, age) VALUES('Jiff', 3);
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO unique_cats2(name, age) VALUES('Skippy', 4);
Query OK, 1 row affected (0.01 sec)

mysql>
mysql>
mysql> SELECT * FROM unique_cats2;
+-----+
| cat_id | name | age |
+-----+
| 1 | Skippy | 4 |
| 2 | Jiff | 3 |
| 3 | Jiff | 3 |
| 4 | Jiff | 3 |
| 5 | Skippy | 4 |
+-----+
5 rows in set (0.00 sec)

mysql> CREATE TABLE employees
-> (
-> id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
-> first_name VARCHAR(255) NOT NULL,
-> last_
-> last_name VARCHAR(255) NOT NULL,
-> ^C
mysql> ^C
mysql> ^C
mysql> CREATE TABLE employees
-> (
-> id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
-> first_name VARCHAR(255) NOT NULL,
-> last_name VARCHAR(255) NOT NULL,
-> middle_name VARCHAR(255) NOT NULL,
-> age INT NOT NULL,
-> current_status VARCHAR(255) NOT NULL DEFAULT 'employed'
-> );
Query OK, 0 rows affected (0.01 sec)

mysql>
mysql>
mysql> DESC employees;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| id | int | NO | PRI | NULL | auto_increment |
| first_name | varchar(255) | NO | | NULL | |
| last_name | varchar(255) | NO | | NULL | |
| middle_name | varchar(255) | NO | | NULL | |
| age | int | NO | | NULL | |
| current_status | varchar(255) | NO | | employed | |
+-----+
6 rows in set (0.01 sec)

mysql> INSERT INTO employees(first_name, last_name, age) VALUES
-> ('Dora', 'Smith', 58);
ERROR 1364 (HY000): Field 'middle_name' doesn't have a default value

```

```

mysql> DROP TABLE employees;
Query OK, 0 rows affected (0.02 sec)

mysql>
mysql>
mysql> DROP TABLE employees;
ERROR 1051 (42502): Unknown table 'soap_store.employees'
mysql> DESC employees;
ERROR 1146 (42502): Table 'soap_store.employees' doesn't exist
mysql> CREATE TABLE employees
-> (
-> id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
-> first_name VARCHAR(255) NOT NULL,
-> last_name VARCHAR(255) NOT NULL,
-> middle_name VARCHAR(255),
-> age INT NOT NULL,
-> current_status VARCHAR(255) NOT NULL DEFAULT 'employed'
-> );
Query OK, 0 rows affected (0.01 sec)

mysql>
mysql>
mysql> DESC employees;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| id | int | NO | PRI | NULL | auto_increment |
| first_name | varchar(255) | NO | | NULL | |
| last_name | varchar(255) | NO | | NULL | |
| middle_name | varchar(255) | YES | | NULL | |
| age | int | NO | | NULL | |
| current_status | varchar(255) | NO | | employed | |
+-----+
6 rows in set (0.00 sec)

mysql>
mysql> INSERT INTO employees(first_name, last_name, age) VALUES ('Dora', 'Smith', 58);
Query OK, 1 row affected (0.01 sec)

mysql>
mysql>
mysql> INSERT INTO cats(name, age) VALUES('Taco', 14);
ERROR 1054 (42S22): Unknown column 'Taco' in 'field list'
mysql>
mysql>
mysql> INSERT INTO cats(name, age) VALUES('Taco', 14);
Query OK, 1 row affected (0.01 sec)

mysql>
mysql>
mysql>
mysql> DROP TABLE cats;
Query OK, 0 rows affected (0.01 sec)

mysql>
mysql>
mysql> CREATE TABLE cats
-> (
-> cat_id INT NOT NULL AUTO_INCREMENT,
-> name VARCHAR(100),
-> breed VARCHAR(100),
-> age INT,
-> PRIMARY KEY (cat_id)
-> );
Query OK, 0 rows affected (0.02 sec)

mysql> DESC cats;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| cat_id | int | NO | PRI | NULL | auto_increment |
| name | varchar(100) | YES | | NULL | |
| breed | varchar(100) | YES | | NULL | |
| age | int | YES | | NULL | |
+-----+
4 rows in set (0.00 sec)

mysql>
mysql> INSERT INTO cats(name, breed, age)
-> VALUES ('Ringo', 'Tabby', 4),
-> ('Cindy', 'Maine Coon', 10),
-> ('Dumbledore', 'Maine Coon', 11),
-> ('Egg', 'Persian', 4),
-> ('Misty', 'Tabby', 13),
-> ('George Michael', 'Ragdoll', 9),
-> ('Jackson', 'Sphynx', 7);
Query OK, 7 rows affected (0.01 sec)
Records: 7 Duplicates: 0 Warnings: 0

mysql>
mysql>
mysql> SELECT * FROM cats;
+-----+
| cat_id | name | breed | age |
+-----+
| 1 | Ringo | Tabby | 4 |
| 2 | Cindy | Maine Coon | 10 |
| 3 | Dumbledore | Maine Coon | 11 |
| 4 | Egg | Persian | 4 |
| 5 | Misty | Tabby | 13 |
| 6 | George Michael | Ragdoll | 9 |
| 7 | Jackson | Sphynx | 7 |
+-----+
7 rows in set (0.00 sec)

mysql>
mysql> SELECT name FROM cats;
+-----+
| name |
+-----+
| Ringo |
| Cindy |
| Dumbledore |
| Egg |
| Misty |
| George Michael |
| Jackson |
+-----+
7 rows in set (0.00 sec)

mysql>
mysql> SELECT age FROM cats;
+-----+
| age |
+-----+
| 4 |
| 10 |
| 11 |
| 4 |
| 13 |
| 9 |
| 7 |
+-----+
7 rows in set (0.00 sec)

mysql>
mysql> SELECT cat_id FROM cats;
+-----+
| cat_id |
+-----+
| 1 |
| 2 |
| 3 |
| 4 |
| 5 |
| 6 |
| 7 |
+-----+
7 rows in set (0.00 sec)

mysql>
mysql> SELECT name, age FROM cats;
+-----+
| name | age |
+-----+
| Ringo | 4 |
| Cindy | 10 |
| Dumbledore | 11 |
| Egg | 4 |
| Misty | 13 |
| George Michael | 9 |
| Jackson | 7 |
+-----+
7 rows in set (0.00 sec)

mysql>
mysql> SELECT cat_id, name, age FROM cats;
+-----+
| cat_id | name | age |
+-----+
| 1 | Ringo | 4 |
| 2 | Cindy | 10 |
| 3 | Dumbledore | 11 |
| 4 | Egg | 4 |

```

5	Misty	13
6	George Michael	9
7	Jackson	7

7 rows in set (0.00 sec)

```
mysql>
mysql> SELECT age, breed, name, cat_id FROM cats;
```

age	breed	name	cat_id
4	Tabby	Ringo	1
10	Maine Coon	Cindy	2
11	Maine Coon	Dumbledore	3
4	Persian	Egg	4
13	Tabby	Misty	5
9	Ragdoll	George Michael	6
7	Sphynx	Jackson	7

7 rows in set (0.00 sec)

```
mysql>
mysql> SELECT cat_id, name, age, breed FROM cats;
```

cat_id	name	age	breed
1	Ringo	4	Tabby
2	Cindy	10	Maine Coon
3	Dumbledore	11	Maine Coon
4	Egg	4	Persian
5	Misty	13	Tabby
6	George Michael	9	Ragdoll
7	Jackson	7	Sphynx

7 rows in set (0.00 sec)

```
mysql>
mysql>
mysql>
mysql> SELECT * FROM cats WHERE name='Jackson';
```

cat_id	name	breed	age
7	Jackson	Sphynx	7

1 row in set (0.01 sec)

```
mysql>
mysql> UPDATE cats SET name='Jack' WHERE name='Jackson';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql>
mysql> SELECT * FROM cats WHERE name='Jackson';
Empty set (0.00 sec)
```

```
mysql>
mysql> SELECT * FROM cats WHERE name='Jack';
```

cat_id	name	breed	age
7	Jack	Sphynx	7

1 row in set (0.00 sec)

```
mysql>
mysql> SELECT * FROM cats WHERE name='Ringo';
```

cat_id	name	breed	age
1	Ringo	Tabby	4

1 row in set (0.00 sec)

```
mysql>
mysql> UPDATE cats SET breed='British Shorthair' WHERE name='Ringo';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql>
mysql> SELECT * FROM cats WHERE name='Ringo';
```

cat_id	name	breed	age
1	Ringo	British Shorthair	4

1 row in set (0.00 sec)

```
mysql>
mysql> SELECT * FROM cats;
```

cat_id	name	breed	age
1	Ringo	British Shorthair	4
2	Cindy	Maine Coon	10
3	Dumbledore	Maine Coon	11
4	Egg	Persian	4
5	Misty	Tabby	13
6	George Michael	Ragdoll	9
7	Jack	Sphynx	7

7 rows in set (0.00 sec)

```
mysql>
mysql> SELECT * FROM cats WHERE breed='Maine Coon';
```

cat_id	name	breed	age
2	Cindy	Maine Coon	10
3	Dumbledore	Maine Coon	11

2 rows in set (0.00 sec)

```
mysql>
mysql> UPDATE cats SET age=12 WHERE breed='Maine Coon';
Query OK, 2 rows affected (0.00 sec)
Rows matched: 2  Changed: 2  Warnings: 0
```

```
mysql>
mysql> SELECT * FROM cats WHERE breed='Maine Coon';
```

cat_id	name	breed	age
2	Cindy	Maine Coon	12
3	Dumbledore	Maine Coon	12

2 rows in set (0.00 sec)

```
mysql> SELECT * FROM cats;
```

cat_id	name	breed	age
1	Ringo	British Shorthair	4
2	Cindy	Maine Coon	12
3	Dumbledore	Maine Coon	12
4	Egg	Persian	4
5	Misty	Tabby	13
6	George Michael	Ragdoll	9
7	Jack	Sphynx	7

7 rows in set (0.00 sec)

```
mysql>
mysql>
mysql>
mysql> DELETE FROM cats WHERE name='Egg';
Query OK, 1 row affected (0.01 sec)
```

```
mysql>
mysql> SELECT * FROM cats;
```

cat_id	name	breed	age
1	Ringo	British Shorthair	4
2	Cindy	Maine Coon	12
3	Dumbledore	Maine Coon	12
5	Misty	Tabby	13
6	George Michael	Ragdoll	9
7	Jack	Sphynx	7

6 rows in set (0.00 sec)

```
mysql>
mysql> SELECT * FROM cats WHERE name='egg';
Empty set (0.00 sec)
```

```
mysql>
mysql> DELETE FROM cats WHERE name='egg';
Query OK, 0 rows affected (0.00 sec)
```

```
mysql>
mysql> SELECT * FROM cats;
```

cat_id	name	breed	age
1	Ringo	British Shorthair	4
2	Cindy	Maine Coon	12
3	Dumbledore	Maine Coon	12
5	Misty	Tabby	13
6	George Michael	Ragdoll	9
7	Jack	Sphynx	7

6 rows in set (0.00 sec)

```
mysql>
mysql> DELETE FROM cats;
Query OK, 6 rows affected (0.01 sec)
```

```
mysql> SELECT * FROM cats;
Empty set (0.00 sec)
```

```
mysql>
mysql>
mysql>
mysql> SELECT database();
```

database()
soap_store

1 row in set (0.00 sec)

```
mysql> CREATE DATABASE shirts_db;
Query OK, 1 row affected (0.01 sec)
```

```
mysql> SELECT database();
```

database()
soap_store

1 row in set (0.00 sec)

```
mysql> use shirts_db;
Database changed
```

```
mysql> SELECT database();
```

database()
shirts_db

1 row in set (0.00 sec)

```
mysql> CREATE TABLE shirts
-> (
->   shirt_id INT NOT NULL AUTO_INCREMENT,
->   article VARCHAR(100),
->   color VARCHAR(100),
->   shirt_size VARCHAR(100),
->   last_worn INT,
->   PRIMARY KEY(shirt_id)
-> );
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> DESC shirts;
```

Field	Type	Null	Key	Default	Extra
shirt_id	int	NO	PRI	NULL	auto_increment
article	varchar(100)	YES		NULL	
color	varchar(100)	YES		NULL	
shirt_size	varchar(100)	YES		NULL	
last_worn	int	YES		NULL	

5 rows in set (0.00 sec)

```
mysql> INSERT INTO shirts(article, color, shirt_size, last_worn) VALUES
-> ('t-shirt', 'white', 'S', 10),
-> ('t-shirt', 'green', 'S', 200),
-> ('polo shirt', 'black', 'M', 10),
-> ('tank top', 'blue', 'S', 50),
-> ('t-shirt', 'pink', 'S', 0),
-> ('polo shirt', 'red', 'M', 5),
-> ('tank top', 'white', 'S', 200),
-> ('tank top', 'blue', 'M', 15);
Query OK, 8 rows affected (0.00 sec)
Records: 8 Duplicates: 0 Warnings: 0
```

```
mysql>
mysql> SELECT * FROM shirts;
```

shirt_id	article	color	shirt_size	last_worn
1	t-shirt	white	S	10
2	t-shirt	green	S	200
3	polo shirt	black	M	10
4	tank top	blue	S	50
5	t-shirt	pink	S	0
6	polo shirt	red	M	5
7	tank top	white	S	200
8	tank top	blue	M	15

8 rows in set (0.00 sec)

```
mysql> INSERT INTO shirts(color, article, shirt_size, last_worn)
-> VALUES('purple', 'polo shirt', 'medium', 50);
Query OK, 1 row affected (0.00 sec)
```

```
mysql>
mysql> SELECT * FROM shirts;
```

shirt_id	article	color	shirt_size	last_worn
1	t-shirt	white	S	10
2	t-shirt	green	S	200
3	polo shirt	black	M	10
4	tank top	blue	S	50
5	t-shirt	pink	S	0
6	polo shirt	red	M	5
7	tank top	white	S	200
8	tank top	blue	M	15
9	polo shirt	purple	medium	50

9 rows in set (0.00 sec)

```
mysql> SELECT article, color FROM shirts;
```

article	color
t-shirt	white
t-shirt	green
polo shirt	black
tank top	blue
t-shirt	pink
polo shirt	red
tank top	white
tank top	blue
polo shirt	purple

9 rows in set (0.00 sec)

```
mysql>
mysql> SELECT * FROM shirts WHERE shirt_size='M';
```

shirt_id	article	color	shirt_size	last_worn
3	polo shirt	black	M	10
6	polo shirt	red	M	5
8	tank top	blue	M	15

3 rows in set (0.00 sec)

```
mysql>
mysql> SELECT article, color, shirt_size, last_worn FROM shirts WHERE shirt_size='M';
```

article	color	shirt_size	last_worn
polo shirt	black	M	10
polo shirt	red	M	5
tank top	blue	M	15

3 rows in set (0.00 sec)

```
mysql>
mysql>
mysql> SELECT * FROM shirts WHERE article='polo shirt';
```

shirt_id	article	color	shirt_size	last_worn
3	polo shirt	black	M	10
6	polo shirt	red	M	5
9	polo shirt	purple	medium	50

3 rows in set (0.00 sec)

```
mysql> UPDATE shirts SET shirt_size='L' WHERE article='polo shirt';
Query OK, 3 rows affected (0.00 sec)
Rows matched: 3 Changed: 3 Warnings: 0

mysql>
mysql> SELECT * FROM shirts WHERE article='polo shirt';
+-----+-----+-----+-----+-----+
| shirt_id | article | color | shirt_size | last_worn |
+-----+-----+-----+-----+-----+
| 3 | polo shirt | black | L | 10 |
| 6 | polo shirt | red | L | 5 |
| 9 | polo shirt | purple | L | 50 |
+-----+-----+-----+-----+-----+
3 rows in set (0.01 sec)

mysql>
mysql> SELECT * FROM shirts;
+-----+-----+-----+-----+-----+
| shirt_id | article | color | shirt_size | last_worn |
+-----+-----+-----+-----+-----+
| 1 | t-shirt | white | S | 10 |
| 2 | t-shirt | green | S | 200 |
| 3 | polo shirt | black | L | 10 |
| 4 | tank top | blue | S | 50 |
| 5 | t-shirt | pink | S | 0 |
| 6 | polo shirt | red | L | 5 |
| 7 | tank top | white | S | 200 |
| 8 | tank top | blue | M | 15 |
| 9 | polo shirt | purple | L | 50 |
+-----+-----+-----+-----+-----+
9 rows in set (0.00 sec)

mysql>
mysql> SELECT * FROM shirts WHERE last_worn=15;
+-----+-----+-----+-----+-----+
| shirt_id | article | color | shirt_size | last_worn |
+-----+-----+-----+-----+-----+
| 8 | tank top | blue | M | 15 |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql>
mysql> UPDATE shirts SET last_worn=0 WHERE last_worn=15;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql>
mysql> SELECT * FROM shirts WHERE last_worn=15;
Empty set (0.00 sec)

mysql>
mysql> SELECT * FROM shirts WHERE last_worn=0;
+-----+-----+-----+-----+-----+
| shirt_id | article | color | shirt_size | last_worn |
+-----+-----+-----+-----+-----+
| 5 | t-shirt | pink | S | 0 |
| 8 | tank top | blue | M | 0 |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>
mysql> SELECT * FROM shirts WHERE color='white';
+-----+-----+-----+-----+-----+
| shirt_id | article | color | shirt_size | last_worn |
+-----+-----+-----+-----+-----+
| 1 | t-shirt | white | S | 10 |
| 7 | tank top | white | S | 200 |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>
mysql> UPDATE shirts SET color='off white', shirt_size='XS' WHERE color='white';
Query OK, 2 rows affected (0.00 sec)
Rows matched: 2 Changed: 2 Warnings: 0

mysql>
mysql> SELECT * FROM shirts WHERE color='white';
Empty set (0.00 sec)

mysql>
mysql> SELECT * FROM shirts WHERE color='off white';
+-----+-----+-----+-----+-----+
| shirt_id | article | color | shirt_size | last_worn |
+-----+-----+-----+-----+-----+
| 1 | t-shirt | off white | XS | 10 |
| 7 | tank top | off white | XS | 200 |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>
mysql> SELECT * FROM shirts;
+-----+-----+-----+-----+-----+
| shirt_id | article | color | shirt_size | last_worn |
+-----+-----+-----+-----+-----+
| 1 | t-shirt | off white | XS | 10 |
| 2 | t-shirt | green | S | 200 |
| 3 | polo shirt | black | L | 10 |
| 4 | tank top | blue | S | 50 |
| 5 | t-shirt | pink | S | 0 |
| 6 | polo shirt | red | L | 5 |
| 7 | tank top | off white | XS | 200 |
| 8 | tank top | blue | M | 0 |
| 9 | polo shirt | purple | L | 50 |
+-----+-----+-----+-----+-----+
9 rows in set (0.00 sec)

mysql>
mysql>
mysql>
mysql>
mysql>
mysql> ELECT * FROM shirts;
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 'ELECT * FROM shirts' at line 1
mysql>
mysql> SELECT * FROM shirts WHERE last_worn=200;
+-----+-----+-----+-----+-----+
| shirt_id | article | color | shirt_size | last_worn |
+-----+-----+-----+-----+-----+
| 2 | t-shirt | green | S | 200 |
| 7 | tank top | off white | XS | 200 |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>
mysql> DELETE FROM shirts WHERE last_worn=200;
Query OK, 2 rows affected (0.00 sec)

mysql>
mysql> SELECT * FROM shirts WHERE article='tank top';
+-----+-----+-----+-----+-----+
| shirt_id | article | color | shirt_size | last_worn |
+-----+-----+-----+-----+-----+
| 4 | tank top | blue | S | 50 |
| 8 | tank top | blue | M | 0 |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> DELETE FROM shirts WHERE article='tank top';
Query OK, 2 rows affected (0.01 sec)

mysql>
mysql> SELECT * FROM shirts WHERE article='tank top';
Empty set (0.00 sec)

mysql>
mysql> SELECT * FROM shirts;
+-----+-----+-----+-----+-----+
| shirt_id | article | color | shirt_size | last_worn |
+-----+-----+-----+-----+-----+
| 1 | t-shirt | off white | XS | 10 |
| 3 | polo shirt | black | L | 10 |
| 5 | t-shirt | pink | S | 0 |
| 6 | polo shirt | red | L | 5 |
| 9 | polo shirt | purple | L | 50 |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql>
mysql> DELETE FROM shirts;
Query OK, 5 rows affected (0.01 sec)

mysql>
mysql>
mysql>
mysql> SELECT * FROM shirts;
Empty set (0.00 sec)

mysql>
mysql> DROP TABLE shirts;
Query OK, 0 rows affected (0.01 sec)
```



```
mysql>
mysql> show tables;
Empty set (0.00 sec)

mysql>
mysql> DESC shirts;
ERROR 1146 (42S02): Table 'shirts_db.shirts' doesn't exist
mysql>
mysql> use cat_app;
ERROR 1049 (42000): Unknown database 'cat_app'
mysql> CREATE DATABASE cat_app;
Query OK, 1 row affected (0.01 sec)

mysql>
mysql>
mysql>
mysql>
mysql> use cat_app;
Database changed
mysql> CREATE TABLE cats
-> (
->   (
->     cat_id INT NOT NULL AUTO_INCREMENT,
->     name VARCHAR(100),
->     age INT,
->     PRIMARY KEY(cat_id)
->   );
Query OK, 0 rows affected (0.01 sec)

mysql>
mysql>
mysql> INSERT INTO cats(name, age)
-> VALUES('Charlie', 17);
Query OK, 1 row affected (0.01 sec)

mysql>
mysql> INSERT INTO cats(name, age)
-> VALUES('Connie', 10);
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> SELECT * FROM cats;
+-----+-----+-----+
| cat_id | name  | age |
+-----+-----+-----+
| 1      | Charlie | 17  |
| 2      | Connie | 10  |
+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>
mysql>
mysql>
mysql> DROP DATABASE IF EXISTS book_shop;
Query OK, 0 rows affected, 1 warning (0.00 sec)

mysql> CREATE DATABASE book_shop;
Query OK, 1 row affected (0.00 sec)

mysql> USE book_shop;
Database changed
mysql>
mysql>
mysql>
mysql> CREATE TABLE books
-> (
->
Display all 759 possibilities? (y or n)
-> ("Where I'm Calling From: Selected Stories", 'Raymond', 'Carver', 1989, 12, 526),
-> ('White Noise', 'Don', 'DeLillo', 1985, 49, 320),
-> ('Cannery Row', 'John', 'Steinbeck', 1945, 95, 181),
-> ('Oblivion: Stories', 'David', 'Foster Wallace', 2004, 172, 329),
-> ('Consider the Lobster', 'David', 'Foster Wallace', 2005, 92, 343);
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 '"Where I'm Calling From: Selected Stories", 'Raymond', 'Carver', 1989, 12, 526), ' a
t line 3
mysql>
mysql>
mysql>
mysql> CREATE TABLE books
-> (
->
Display all 759 possibilities? (y or n)
-> book_id INT NOT NULL AUTO_INCREMENT,
->
Display all 759 possibilities? (y or n)
-> title VARCHAR(100),
->
Display all 759 possibilities? (y or n)
-> author_fname VARCHAR(100),
->
Display all 759 possibilities? (y or n)
-> author_lname VARCHAR(100),
->
Display all 759 possibilities? (y or n)
-> released_year INT,
->
Display all 759 possibilities? (y or n)
-> stock_quantity INT,
->
Display all 759 possibilities? (y or n)
-> pages INT,
->
Display all 759 possibilities? (y or n)
-> PRIMARY KEY(book_id)
-> );
Query OK, 0 rows affected (0.01 sec)

mysql>
mysql>
mysql>
mysql> INSERT INTO books (title, author_fname, author_lname, released_year, stock_quantity, pages)
-> VALUES
-> ('The Namesake', 'Jhumpa', 'Lahiri', 2003, 32, 291),
-> ('Norse Mythology', 'Neil', 'Gaiman', 2016, 43, 304),
-> ('American Gods', 'Neil', 'Gaiman', 2001, 12, 465),
-> ('Interpreter of Maladies', 'Jhumpa', 'Lahiri', 1996, 97, 198),
-> ('A Hologram for the King: A Novel', 'Dave', 'Eggers', 2012, 154, 352),
-> ('The Circle', 'Dave', 'Eggers', 2013, 26, 504),
-> ('The Amazing Adventures of Kavalier & Clay', 'Michael', 'Chabon', 2000, 68, 634),
-> ('Just Kids', 'Patti', 'Smith', 2010, 55, 304),
-> ('A Heartbreaking Work of Staggering Genius', 'Dave', 'Eggers', 2001, 104, 437),
-> ('Coraline', 'Neil', 'Gaiman', 2003, 100, 208),
-> ('What We Talk About When We Talk About Love: Stories', 'Raymond', 'Carver', 1981, 23, 176),
-> ('Where I'm Calling From: Selected Stories', 'Raymond', 'Carver', 1989, 12, 526),
-> ('White Noise', 'Don', 'DeLillo', 1985, 49, 320),
-> ('Cannery Row', 'John', 'Steinbeck', 1945, 95, 181),
-> ('Oblivion: Stories', 'David', 'Foster Wallace', 2004, 172, 329),
-> ('Consider the Lobster', 'David', 'Foster Wallace', 2005, 92, 343);
Query OK, 16 rows affected (0.01 sec)
Records: 16 Duplicates: 0 Warnings: 0

mysql>
mysql>
mysql>
mysql> DESC books;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| book_id | int | NO | PRI | NULL | auto_increment |
| title | varchar(100) | YES | | NULL | |
| author_fname | varchar(100) | YES | | NULL | |
| author_lname | varchar(100) | YES | | NULL | |
| released_year | int | YES | | NULL | |
| stock_quantity | int | YES | | NULL | |
| pages | int | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.01 sec)

mysql> SELECT * FROM books;
+-----+-----+-----+-----+-----+-----+
| book_id | title | author_fname | author_lname | released_year | stock_quantity | pages |
+-----+-----+-----+-----+-----+-----+
| 1 | The Namesake | Jhumpa | Lahiri | 2003 | 32 | 291 |
| 2 | Norse Mythology | Neil | Gaiman | 2016 | 43 | 304 |
| 3 | American Gods | Neil | Gaiman | 2001 | 12 | 465 |
| 4 | Interpreter of Maladies | Jhumpa | Lahiri | 1996 | 97 | 198 |
| 5 | A Hologram for the King: A Novel | Dave | Eggers | 2012 | 154 | 352 |
| 6 | The Circle | Dave | Eggers | 2013 | 26 | 504 |
| 7 | The Amazing Adventures of Kavalier & Clay | Michael | Chabon | 2000 | 68 | 634 |
| 8 | Just Kids | Patti | Smith | 2010 | 55 | 304 |
| 9 | A Heartbreaking Work of Staggering Genius | Dave | Eggers | 2001 | 104 | 437 |
| 10 | Coraline | Neil | Gaiman | 2003 | 100 | 208 |
| 11 | What We Talk About When We Talk About Love: Stories | Raymond | Carver | 1981 | 23 | 176 |
| 12 | Where I'm Calling From: Selected Stories | Raymond | Carver | 1989 | 12 | 526 |
| 13 | White Noise | Don | DeLillo | 1985 | 49 | 320 |
| 14 | Cannery Row | John | Steinbeck | 1945 | 95 | 181 |
| 15 | Oblivion: Stories | David | Foster Wallace | 2004 | 172 | 329 |
| 16 | Consider the Lobster | David | Foster Wallace | 2005 | 92 | 343 |
+-----+-----+-----+-----+-----+-----+
16 rows in set (0.00 sec)
```

```

mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql> SELECT author_fname, author_lname FROM books;
+-----+-----+
| author_fname | author_lname |
+-----+-----+
| Jhumpa      | Lahiri       |
| Neil       | Gaiman       |
| Neil       | Gaiman       |
| Jhumpa      | Lahiri       |
| Dave       | Eggers       |
| Dave       | Eggers       |
| Michael     | Chabon       |
| Patti      | Smith        |
| Dave       | Eggers       |
| Neil       | Gaiman       |
| Raymond    | Carver       |
| Raymond    | Carver       |
| Don        | DeLillo      |
| John       | Steinbeck    |
| David      | Foster Wallace |
| David      | Foster Wallace |
+-----+-----+
16 rows in set (0.00 sec)

mysql>
mysql> CONCAT(x,y,z) // from slides
->
-> CONCAT(column, anotherColumn) // from slides
->
-> CONCAT(author_fname, author_lname)
->
-> CONCAT(column, 'text', anotherColumn, 'more text')
->
-> CONCAT(author_fname, ' ', author_lname)
->
-> CONCAT(author_fname, author_lname); // invalid syntax
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 'CONCAT(x,y,z) // from slides
CONCAT(column, anotherColumn) // from slides
CO' at line 1
->
-> SELECT CONCAT('Hello', 'World');
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 '/// invalid syntax
SELECT CONCAT('Hello', 'World')' at line 1
mysql>
mysql> SELECT CONCAT('Hello', '...', 'World');
+-----+-----+
| CONCAT('Hello', '...', 'World') |
+-----+-----+
| Hello...World                    |
+-----+-----+
1 row in set (0.01 sec)

mysql>
mysql> SELECT
-> CONCAT(author_fname, ' ', author_lname)
-> FROM books;
+-----+-----+
| CONCAT(author_fname, ' ', author_lname) |
+-----+-----+
| Jhumpa Lahiri                          |
| Neil Gaiman                            |
| Neil Gaiman                            |
| Jhumpa Lahiri                          |
| Dave Eggers                            |
| Dave Eggers                            |
| Michael Chabon                         |
| Patti Smith                            |
| Dave Eggers                            |
| Neil Gaiman                            |
| Raymond Carver                         |
| Raymond Carver                         |
| Don DeLillo                            |
| John Steinbeck                         |
| David Foster Wallace                   |
| David Foster Wallace                   |
+-----+-----+
16 rows in set (0.00 sec)

mysql>
mysql> SELECT
-> CONCAT(author_fname, ' ', author_lname)
-> AS 'full name'
-> FROM books;
+-----+-----+
| full name |
+-----+-----+
| Jhumpa Lahiri |
| Neil Gaiman |
| Neil Gaiman |
| Jhumpa Lahiri |
| Dave Eggers |
| Dave Eggers |
| Michael Chabon |
| Patti Smith |
| Dave Eggers |
| Neil Gaiman |
| Raymond Carver |
| Raymond Carver |
| Don DeLillo |
| John Steinbeck |
| David Foster Wallace |
| David Foster Wallace |
+-----+-----+
16 rows in set (0.00 sec)

mysql>
mysql> SELECT author_fname AS first, author_lname AS last,
-> CONCAT(author_fname, ' ', author_lname) AS full
-> FROM books;
+-----+-----+-----+
| first | last | full |
+-----+-----+-----+
| Jhumpa | Lahiri | Jhumpa Lahiri |
| Neil | Gaiman | Neil Gaiman |
| Neil | Gaiman | Neil Gaiman |
| Jhumpa | Lahiri | Jhumpa Lahiri |
| Dave | Eggers | Dave Eggers |
| Dave | Eggers | Dave Eggers |
| Michael | Chabon | Michael Chabon |
| Patti | Smith | Patti Smith |
| Dave | Eggers | Dave Eggers |
| Neil | Gaiman | Neil Gaiman |
| Raymond | Carver | Raymond Carver |
| Raymond | Carver | Raymond Carver |
| Don | DeLillo | Don DeLillo |
| John | Steinbeck | John Steinbeck |
| David | Foster Wallace | David Foster Wallace |
| David | Foster Wallace | David Foster Wallace |
+-----+-----+-----+
16 rows in set (0.00 sec)

mysql>
mysql> SELECT author_fname AS first, author_lname AS last,
-> CONCAT(author_fname, ' ', author_lname) AS full
-> FROM books;
+-----+-----+-----+
| first | last | full |
+-----+-----+-----+
| Jhumpa | Lahiri | Jhumpa, Lahiri |
| Neil | Gaiman | Neil, Gaiman |
| Neil | Gaiman | Neil, Gaiman |
| Jhumpa | Lahiri | Jhumpa, Lahiri |
| Dave | Eggers | Dave, Eggers |
| Dave | Eggers | Dave, Eggers |
| Michael | Chabon | Michael, Chabon |
| Patti | Smith | Patti, Smith |
| Dave | Eggers | Dave, Eggers |
| Neil | Gaiman | Neil, Gaiman |
| Raymond | Carver | Raymond, Carver |
| Raymond | Carver | Raymond, Carver |
| Don | DeLillo | Don, DeLillo |
| John | Steinbeck | John, Steinbeck |
| David | Foster Wallace | David, Foster Wallace |
| David | Foster Wallace | David, Foster Wallace |
+-----+-----+-----+
16 rows in set (0.00 sec)

mysql>
mysql> SELECT CONCAT(title, '-', author_fname, '-', author_lname) FROM books;
+-----+-----+

```

```

| CONCAT(title, '-', author_fname, '-', author_lname) |
+-----+
| The Namesake-Jhumpa-Lahiri |
| Norse Mythology-Neil-Gaiman |
| American Gods-Neil-Gaiman |
| Interpreter of Maladies-Jhumpa-Lahiri |
| A Hologram for the King: A Novel-Dave-Eggers |
| The Circle-Dave-Eggers |
| The Amazing Adventures of Kavalier & Clay-Michael-Chabon |
| Just Kids-Patti-Smith |
| A Heartbreaking Work of Staggering Genius-Dave-Eggers |
| Coraline-Neil-Gaiman |
| What We Talk About When We Talk About Love: Stories-Raymond-Carver |
| Where I'm Calling From: Selected Stories-Raymond-Carver |
| White Noise-Don-DeLillo |
| Cannery Row-John-Steinbeck |
| Oblivion: Stories-David-Foster Wallace |
| Consider the Lobster-David-Foster Wallace |
+-----+
16 rows in set (0.00 sec)

mysql>
mysql> SELECT
--> CONCAT_WS(' - ', title, author_fname, author_lname)
--> FROM books;
+-----+
| CONCAT_WS(' - ', title, author_fname, author_lname) |
+-----+
| The Namesake - Jhumpa - Lahiri |
| Norse Mythology - Neil - Gaiman |
| American Gods - Neil - Gaiman |
| Interpreter of Maladies - Jhumpa - Lahiri |
| A Hologram for the King: A Novel - Dave - Eggers |
| The Circle - Dave - Eggers |
| The Amazing Adventures of Kavalier & Clay - Michael - Chabon |
| Just Kids - Patti - Smith |
| A Heartbreaking Work of Staggering Genius - Dave - Eggers |
| Coraline - Neil - Gaiman |
| What We Talk About When We Talk About Love: Stories - Raymond - Carver |
| Where I'm Calling From: Selected Stories - Raymond - Carver |
| White Noise - Don - DeLillo |
| Cannery Row - John - Steinbeck |
| Oblivion: Stories - David - Foster Wallace |
| Consider the Lobster - David - Foster Wallace |
+-----+
16 rows in set (0.00 sec)

mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql> SELECT SUBSTRING('Hello World', 1, 4);
+-----+
| SUBSTRING('Hello World', 1, 4) |
+-----+
| Hell |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> SELECT SUBSTRING('Hello World', 7);
+-----+
| SUBSTRING('Hello World', 7) |
+-----+
| World |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> SELECT SUBSTRING('Hello World', 3, 8);
+-----+
| SUBSTRING('Hello World', 3, 8) |
+-----+
| llo Worl |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> SELECT SUBSTRING('Hello World', 3);
+-----+
| SUBSTRING('Hello World', 3) |
+-----+
| llo World |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> SELECT SUBSTRING('Hello World', -3);
+-----+
| SUBSTRING('Hello World', -3) |
+-----+
| rld |
+-----+
1 row in set (0.01 sec)

mysql>
mysql> SELECT SUBSTRING('Hello World', -7);
+-----+
| SUBSTRING('Hello World', -7) |
+-----+
| o World |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> SELECT title FROM books;
+-----+
| title |
+-----+
| The Namesake |
| Norse Mythology |
| American Gods |
| Interpreter of Maladies |
| A Hologram for the King: A Novel |
| The Circle |
| The Amazing Adventures of Kavalier & Clay |
| Just Kids |
| A Heartbreaking Work of Staggering Genius |
| Coraline |
| What We Talk About When We Talk About Love: Stories |
| Where I'm Calling From: Selected Stories |
| White Noise |
| Cannery Row |
| Oblivion: Stories |
| Consider the Lobster |
+-----+
16 rows in set (0.00 sec)

mysql>
mysql> SELECT SUBSTRING("Where I'm Calling From: Selected Stories", 1, 10);
+-----+
| SUBSTRING("Where I'm Calling From: Selected Stories", 1, 10) |
+-----+
| Where I'm |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> SELECT SUBSTRING(title, 1, 10) FROM books;
+-----+
| SUBSTRING(title, 1, 10) |
+-----+
| The Namesa |
| Norse Myth |
| American G |
| Interprete |
| A Hologram |
| The Circle |
| The Amazin |
| Just Kids |
| A Heartbre |
| Coraline |
| What We Ta |
| Where I'm |
| White Nois |
| Cannery Ro |
| Oblivion: |
| Consider t |
+-----+
16 rows in set (0.00 sec)

mysql>
mysql> SELECT SUBSTRING(title, 1, 10) AS 'short title' FROM books;
+-----+

```

```

| short title |
+-----+
| The Namesa |
| Norse Myth |
| American G |
| Interpret |
| A Hologram |
| The Circle |
| The Amazin |
| Just Kids |
| A Heartbre |
| Coraline |
| What We Ta |
| Where I'm |
| White Nois |
| Cannery Ro |
| Oblivion: |
| Consider t |
+-----+
16 rows in set (0.00 sec)

mysql>
mysql> SELECT SUBSTR(title, 1, 10) AS 'short title' FROM books;
+-----+
| short title |
+-----+
| The Namesa |
| Norse Myth |
| American G |
| Interpret |
| A Hologram |
| The Circle |
| The Amazin |
| Just Kids |
| A Heartbre |
| Coraline |
| What We Ta |
| Where I'm |
| White Nois |
| Cannery Ro |
| Oblivion: |
| Consider t |
+-----+
16 rows in set (0.00 sec)

mysql>
mysql> SELECT CONCAT
-> (
-> SUBSTRING(title, 1, 10),
-> '...'
-> )
-> FROM books;
+-----+
| CONCAT
| (
| SUBSTRING(title, 1, 10),
| '...'
| ) |
+-----+
| The Namesa...
| Norse Myth...
| American G...
| Interpret...
| A Hologram...
| The Circle...
| The Amazin...
| Just Kids...
| A Heartbre...
| Coraline...
| What We Ta...
| Where I'm ...
| White Nois...
| Cannery Ro...
| Oblivion: ...
| Consider t...
+-----+
16 rows in set (0.00 sec)

mysql>
mysql> source book_code.sql
ERROR:
Failed to open file 'book_code.sql', error: 2
mysql>
mysql> SELECT CONCAT
-> (
-> SUBSTRING(title, 1, 10),
-> '...'
-> ) AS 'short title'
-> FROM books;
+-----+
| short title |
+-----+
| The Namesa...
| Norse Myth...
| American G...
| Interpret...
| A Hologram...
| The Circle...
| The Amazin...
| Just Kids...
| A Heartbre...
| Coraline...
| What We Ta...
| Where I'm ...
| White Nois...
| Cannery Ro...
| Oblivion: ...
| Consider t...
+-----+
16 rows in set (0.00 sec)

mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql> SELECT REPLACE('Hello World', 'Hell', '%$#@');
+-----+
| REPLACE('Hello World', 'Hell', '%$#@') |
+-----+
| %$#@o World |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> SELECT REPLACE('Hello World', 'l', '7');
+-----+
| REPLACE('Hello World', 'l', '7') |
+-----+
| He77o Wor7d |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> SELECT REPLACE('Hello World', 'o', '0');
+-----+
| REPLACE('Hello World', 'o', '0') |
+-----+
| Hell0 W0rld |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> SELECT REPLACE('Hello World', 'o', '*');
+-----+
| REPLACE('Hello World', 'o', '*') |
+-----+
| Hello W*rld |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> SELECT
-> REPLACE('cheese bread coffee milk', ' ', ' and ');
+-----+
| REPLACE('cheese bread coffee milk', ' ', ' and ') |
+-----+
| cheese and bread and coffee and milk |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> SELECT REPLACE(title, 'e ', '3') FROM books;
+-----+
| REPLACE(title, 'e ', '3') |
+-----+
| Th3Namesake |
| Nors3Mythology |
| American Gods |
| Interpreter of Maladies |
| A Hologram for th3King: A Novel |
| Th3Circle |
+-----+

```

```

| Th3Amazing Adventures of Kavalier & Clay |
| Just Kids |
| A Heartbreaking Work of Staggering Genius |
| Coraline |
| What W3Talk About When W3Talk About Love: Stories |
| Wher3I'm Calling From: Selected Stories |
| Whit3Noise |
| Cannery Row |
| Oblivion: Stories |
| Consider th3Lobster |
-----
16 rows in set (0.00 sec)

```

```

mysql>
mysql> -- SELECT
mysql> -- CONCAT
mysql> -- (
mysql> -- SUBSTRING(title, 1, 10),
mysql> -- '...',
mysql> -- ) AS 'short title'
mysql> -- FROM books;
mysql>
mysql> SELECT
--> SUBSTRING(REPLACE(title, 'e', '3'), 1, 10)
--> FROM books;
-----
| SUBSTRING(REPLACE(title, 'e', '3'), 1, 10) |
-----

```

```

| Th3 Nam3sa |
| Nors3 Myth |
| Am3rican G |
| Int3rpr3t3 |
| A Hologram |
| Th3 Circ13 |
| Th3 Amazin |
| Just Kids |
| A H3artbr3 |
| Coralin3 |
| What W3 Ta |
| Wh3r3 I'm |
| Whit3 Nois |
| Cann3ry Ro |
| Oblivion: |
| Consid3r t |
-----
16 rows in set (0.00 sec)

```

```

mysql>
mysql> SELECT
--> SUBSTRING(REPLACE(title, 'e', '3'), 1, 10) AS 'weird string'
--> FROM books;
-----
| weird string |
-----

```

```

| Th3 Nam3sa |
| Nors3 Myth |
| Am3rican G |
| Int3rpr3t3 |
| A Hologram |
| Th3 Circ13 |
| Th3 Amazin |
| Just Kids |
| A H3artbr3 |
| Coralin3 |
| What W3 Ta |
| Wh3r3 I'm |
| Whit3 Nois |
| Cann3ry Ro |
| Oblivion: |
| Consid3r t |
-----
16 rows in set (0.00 sec)

```

```

mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql> SELECT REVERSE('Hello World');
-----
| REVERSE('Hello World') |
-----
| dlroW olleH |
-----
1 row in set (0.00 sec)

```

```

mysql>
mysql> SELECT REVERSE('meow meow');
-----
| REVERSE('meow meow') |
-----
| woew woew |
-----
1 row in set (0.01 sec)

```

```

mysql>
mysql> SELECT REVERSE(author_fname) FROM books;
-----
| REVERSE(author_fname) |
-----
| apmuhJ |
| lieN |
| lieN |
| apmuhJ |
| evaD |
| evaD |
| leahciM |
| ittaP |
| evaD |
| lieN |
| dnomyaR |
| dnomyaR |
| noD |
| rhoJ |
| divaD |
| divaD |
-----
16 rows in set (0.00 sec)

```

```

mysql>
mysql> SELECT CONCAT('woof', REVERSE('woof'));
-----
| CONCAT('woof', REVERSE('woof')) |
-----
| wooffwoow |
-----
1 row in set (0.00 sec)

```

```

mysql>
mysql> SELECT CONCAT(author_fname, REVERSE(author_fname)) FROM books;
-----
| CONCAT(author_fname, REVERSE(author_fname)) |
-----
| JhumpaapmuhJ |
| NeillieN |
| NeillieN |
| JhumpaapmuhJ |
| DaveevaD |
| DaveevaD |
| MichaelleahciM |
| PattiittaP |
| DaveevaD |
| NeillieN |
| RaymondndnomyaR |
| RaymondndnomyaR |
| DonnoD |
| JohnrhoJ |
| DaviddivaD |
| DaviddivaD |
-----
16 rows in set (0.00 sec)

```

```

mysql>
mysql>
mysql>
mysql>
mysql>
mysql> SELECT CHAR_LENGTH('Hello World');
-----
| CHAR_LENGTH('Hello World') |
| 11 |
-----
1 row in set (0.00 sec)

```

```

mysql>
mysql> SELECT author_lname, CHAR_LENGTH(author_lname) AS 'length' FROM books;
-----
| author_lname | length |
-----

```

Lahiri	6	
Gaiman	6	
Gaiman	6	
Lahiri	6	
Eggers	6	
Eggers	6	
Chabon	6	
Smith	5	
Eggers	6	
Gaiman	6	
Carver	6	
Carver	6	
Delillo	7	
Steinbeck	9	
Foster Wallace	14	
Foster Wallace	14	

16 rows in set (0.00 sec)

```
mysql>
mysql> SELECT CONCAT(author_name, ' is ', CHAR_LENGTH(author_name), ' characters long') FROM books;
```

CONCAT(author_name, ' is ', CHAR_LENGTH(author_name), ' characters long')		
Lahiri is 6 characters long		
Gaiman is 6 characters long		
Gaiman is 6 characters long		
Lahiri is 6 characters long		
Eggers is 6 characters long		
Eggers is 6 characters long		
Chabon is 6 characters long		
Smith is 5 characters long		
Eggers is 6 characters long		
Gaiman is 6 characters long		
Carver is 6 characters long		
Carver is 6 characters long		
Delillo is 7 characters long		
Steinbeck is 9 characters long		
Foster Wallace is 14 characters long		
Foster Wallace is 14 characters long		

16 rows in set (0.00 sec)

```
mysql>
mysql>
mysql>
mysql>
mysql> SELECT UPPER('Hello World');
```

UPPER('Hello World')		
HELLO WORLD		

1 row in set (0.01 sec)

```
mysql>
mysql> SELECT LOWER('Hello World');
```

LOWER('Hello World')		
hello world		

1 row in set (0.00 sec)

```
mysql>
mysql> SELECT UPPER(title) FROM books;
```

UPPER(title)		
THE NAMESAKE		
NORSE MYTHOLOGY		
AMERICAN GODS		
INTERPRETER OF MALADIES		
A HOLOGRAM FOR THE KING: A NOVEL		
THE CIRCLE		
THE AMAZING ADVENTURES OF KAVALIER & CLAY		
JUST KIDS		
A HEARTBREAKING WORK OF STAGGERING GENIUS		
CORALINE		
WHAT WE TALK ABOUT WHEN WE TALK ABOUT LOVE: STORIES		
WHERE I'M CALLING FROM: SELECTED STORIES		
WHITE NOISE		
CANNERY ROW		
OBLIVION: STORIES		
CONSIDER THE LOBSTER		

16 rows in set (0.00 sec)

```
mysql>
mysql> SELECT CONCAT('MY FAVORITE BOOK IS ', UPPER(title)) FROM books;
```

CONCAT('MY FAVORITE BOOK IS ', UPPER(title))		
MY FAVORITE BOOK IS THE NAMESAKE		
MY FAVORITE BOOK IS NORSE MYTHOLOGY		
MY FAVORITE BOOK IS AMERICAN GODS		
MY FAVORITE BOOK IS INTERPRETER OF MALADIES		
MY FAVORITE BOOK IS A HOLOGRAM FOR THE KING: A NOVEL		
MY FAVORITE BOOK IS THE CIRCLE		
MY FAVORITE BOOK IS THE AMAZING ADVENTURES OF KAVALIER & CLAY		
MY FAVORITE BOOK IS JUST KIDS		
MY FAVORITE BOOK IS A HEARTBREAKING WORK OF STAGGERING GENIUS		
MY FAVORITE BOOK IS CORALINE		
MY FAVORITE BOOK IS WHAT WE TALK ABOUT WHEN WE TALK ABOUT LOVE: STORIES		
MY FAVORITE BOOK IS WHERE I'M CALLING FROM: SELECTED STORIES		
MY FAVORITE BOOK IS WHITE NOISE		
MY FAVORITE BOOK IS CANNERY ROW		
MY FAVORITE BOOK IS OBLIVION: STORIES		
MY FAVORITE BOOK IS CONSIDER THE LOBSTER		

16 rows in set (0.00 sec)

```
mysql>
mysql> SELECT CONCAT('MY FAVORITE BOOK IS ', LOWER(title)) FROM books;
```

CONCAT('MY FAVORITE BOOK IS ', LOWER(title))		
MY FAVORITE BOOK IS the namesake		
MY FAVORITE BOOK IS norse mythology		
MY FAVORITE BOOK IS american gods		
MY FAVORITE BOOK IS interpreter of maladies		
MY FAVORITE BOOK IS a hologram for the king: a novel		
MY FAVORITE BOOK IS the circle		
MY FAVORITE BOOK IS the amazing adventures of kavalier & clay		
MY FAVORITE BOOK IS just kids		
MY FAVORITE BOOK IS a heartbreaking work of staggering genius		
MY FAVORITE BOOK IS coraline		
MY FAVORITE BOOK IS what we talk about when we talk about love: stories		
MY FAVORITE BOOK IS where i'm calling from: selected stories		
MY FAVORITE BOOK IS white noise		
MY FAVORITE BOOK IS cannery row		
MY FAVORITE BOOK IS oblivion: stories		
MY FAVORITE BOOK IS consider the lobster		

16 rows in set (0.00 sec)

```
mysql>
mysql>
mysql>
mysql>
mysql>
mysql> SELECT
-> author_name AS forwards,
-> REVERSE(author_name) AS backwards
-> FROM books;
```

forwards	backwards	
Lahiri	irihal	
Gaiman	namiaG	
Gaiman	namiaG	
Lahiri	irihal	
Eggers	sreggE	
Eggers	sreggE	
Chabon	nobaHC	
Smith	htimS	
Eggers	sreggE	
Gaiman	namiaG	
Carver	revraC	
Carver	revraC	
Delillo	olliileD	
Steinbeck	kcebnietS	
Foster Wallace	ecallaW retsoF	
Foster Wallace	ecallaW retsoF	

16 rows in set (0.00 sec)

```
mysql>
mysql>
mysql> SELECT
-> UPPER
```

```

-> (
->   CONCAT(author_fname, ' ', author_lname)
-> ) AS 'Full name in caps'
-> FROM books;

```

full name in caps
JHUMPA LAHIRI
NEIL GAIMAN
NEIL GAIMAN
JHUMPA LAHIRI
DAVE EGGERS
DAVE EGGERS
MICHAEL CHABON
PATTI SMITH
DAVE EGGERS
NEIL GAIMAN
RAYMOND CARVER
RAYMOND CARVER
DON DELILLO
JOHN STEINBECK
DAVID FOSTER WALLACE
DAVID FOSTER WALLACE

16 rows in set (0.00 sec)

```

mysql>
mysql>
mysql> SELECT
->   CONCAT(title, ' was released in ', released_year) AS blurb
-> FROM books;

```

blurb
The Namesake was released in 2003
Norse Mythology was released in 2016
American Gods was released in 2001
Interpreter of Maladies was released in 1996
A Hologram for the King: A Novel was released in 2012
The Circle was released in 2013
The Amazing Adventures of Kavalier & Clay was released in 2000
Just Kids was released in 2010
A Heartbreaking Work of Staggering Genius was released in 2001
Coraline was released in 2003
What We Talk About When We Talk About Love: Stories was released in 1981
Where I'm Calling From: Selected Stories was released in 1989
White Noise was released in 1985
Cannery Row was released in 1945
Oblivion: Stories was released in 2004
Consider the Lobster was released in 2005

16 rows in set (0.00 sec)

```

mysql> SELECT
->   title,
->   CHAR_LENGTH(title) AS 'character count'
-> FROM books;

```

title	character count
The Namesake	12
Norse Mythology	15
American Gods	13
Interpreter of Maladies	23
A Hologram for the King: A Novel	32
The Circle	10
The Amazing Adventures of Kavalier & Clay	41
Just Kids	9
A Heartbreaking Work of Staggering Genius	41
Coraline	8
What We Talk About When We Talk About Love: Stories	51
Where I'm Calling From: Selected Stories	40
White Noise	11
Cannery Row	11
Oblivion: Stories	17
Consider the Lobster	20

16 rows in set (0.00 sec)

```

mysql>
mysql>
mysql> SELECT
->   CONCAT(SUBSTRING(title, 1, 10), '...') AS 'short title',
->   CONCAT(author_lname, ' ', author_fname) AS author,
->   CONCAT(stock_quantity, ' in stock') AS quantity
-> FROM books;

```

short title	author	quantity
The Namesa...	Lahiri,Jhumpa	32 in stock
Norse Myth...	Gaiman,Neil	43 in stock
American G...	Gaiman,Neil	12 in stock
Interprete...	Lahiri,Jhumpa	97 in stock
A Hologram...	Eggers,Dave	154 in stock
The Circle...	Eggers,Dave	26 in stock
The Amazin...	Chabon,Michael	68 in stock
Just Kids...	Smith,Patti	55 in stock
A Heartbre...	Eggers,Dave	104 in stock
Coraline...	Gaiman,Neil	100 in stock
What We Ta...	Carver,Raymond	23 in stock
Where I'm ...	Carver,Raymond	12 in stock
White Nois...	Delillo,Don	49 in stock
Cannery Ro...	Steinbeck,John	95 in stock
Oblivion: ...	Foster Wallace,David	172 in stock
Consider t...	Foster Wallace,David	92 in stock

16 rows in set (0.00 sec)

```

mysql>
mysql>
mysql>
mysql>
mysql>
mysql> INSERT INTO books
->   (title, author_fname, author_lname, released_year, stock_quantity, pages)
->   VALUES ('10% Happier', 'Dan', 'Harris', 2014, 29, 256),
->   ('fake_book', 'Freida', 'Harris', 2001, 287, 420),
->   ('Lincoln In The Bardo', 'George', 'Saunders', 2017, 1000, 367);
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0

```

```

mysql>
mysql>
mysql> SELECT title FROM books;

```

title
The Namesake
Norse Mythology
American Gods
Interpreter of Maladies
A Hologram for the King: A Novel
The Circle
The Amazing Adventures of Kavalier & Clay
Just Kids
A Heartbreaking Work of Staggering Genius
Coraline
What We Talk About When We Talk About Love: Stories
Where I'm Calling From: Selected Stories
White Noise
Cannery Row
Oblivion: Stories
Consider the Lobster
10% Happier
fake_book
Lincoln In The Bardo

19 rows in set (0.00 sec)

```

mysql>
mysql>
mysql> SELECT * FROM books;

```

book_id	title	author_fname	author_lname	released_year	stock_quantity	pages
1	The Namesake	Jhumpa	Lahiri	2003	32	291
2	Norse Mythology	Neil	Gaiman	2016	43	304
3	American Gods	Neil	Gaiman	2001	12	465
4	Interpreter of Maladies	Jhumpa	Lahiri	1996	97	198
5	A Hologram for the King: A Novel	Dave	Eggers	2012	154	352
6	The Circle	Dave	Eggers	2013	26	504
7	The Amazing Adventures of Kavalier & Clay	Michael	Chabon	2000	68	634
8	Just Kids	Patti	Smith	2010	55	304
9	A Heartbreaking Work of Staggering Genius	Dave	Eggers	2001	104	437
10	Coraline	Neil	Gaiman	2003	100	208
11	What We Talk About When We Talk About Love: Stories	Raymond	Carver	1981	23	176
12	Where I'm Calling From: Selected Stories	Raymond	Carver	1989	12	526
13	White Noise	Don	Delillo	1985	49	320
14	Cannery Row	John	Steinbeck	1945	95	181
15	Oblivion: Stories	David	Foster Wallace	2004	172	329
16	Consider the Lobster	David	Foster Wallace	2005	92	343
17	10% Happier	Dan	Harris	2014	29	256

18	fake_book	Freida	Harris	2001	287	428
19	Lincoln In The Bardo	George	Saunders	2017	1000	367

19 rows in set (0.00 sec)

```
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql> SELECT author_lname FROM books;
```

author_lname
Lahiri
Gaiman
Gaiman
Lahiri
Eggers
Eggers
Chabon
Smith
Eggers
Gaiman
Carver
Carver
DeLillo
Steinbeck
Foster Wallace
Foster Wallace
Harris
Harris
Saunders

19 rows in set (0.00 sec)

```
mysql>
mysql> SELECT DISTINCT author_lname FROM books;
```

author_lname
Lahiri
Gaiman
Eggers
Chabon
Smith
Carver
DeLillo
Steinbeck
Foster Wallace
Harris
Saunders

11 rows in set (0.00 sec)

```
mysql>
mysql> SELECT author_fname, author_lname FROM books;
```

author_fname	author_lname
Jhumpa	Lahiri
Neil	Gaiman
Neil	Gaiman
Jhumpa	Lahiri
Dave	Eggers
Dave	Eggers
Michael	Chabon
Patti	Smith
Dave	Eggers
Neil	Gaiman
Raymond	Carver
Raymond	Carver
Don	DeLillo
John	Steinbeck
David	Foster Wallace
David	Foster Wallace
Dan	Harris
Freida	Harris
George	Saunders

19 rows in set (0.00 sec)

```
mysql>
mysql> SELECT DISTINCT CONCAT(author_fname, ' ', author_lname) FROM books;
```

CONCAT(author_fname, ' ', author_lname)
Jhumpa Lahiri
Neil Gaiman
Dave Eggers
Michael Chabon
Patti Smith
Raymond Carver
Don DeLillo
John Steinbeck
David Foster Wallace
Dan Harris
Freida Harris
George Saunders

12 rows in set (0.00 sec)

```
mysql>
mysql> SELECT DISTINCT author_fname, author_lname FROM books;
```

author_fname	author_lname
Jhumpa	Lahiri
Neil	Gaiman
Dave	Eggers
Michael	Chabon
Patti	Smith
Raymond	Carver
Don	DeLillo
John	Steinbeck
David	Foster Wallace
Dan	Harris
Freida	Harris
George	Saunders

12 rows in set (0.00 sec)

```
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql> SELECT author_lname FROM books;
```

author_lname
Lahiri
Gaiman
Gaiman
Lahiri
Eggers
Eggers
Chabon
Smith
Eggers
Gaiman
Carver
Carver
DeLillo
Steinbeck
Foster Wallace
Foster Wallace
Harris
Harris
Saunders

19 rows in set (0.00 sec)

```
mysql>
mysql> SELECT author_lname FROM books ORDER BY author_lname;
```

author_lname
Carver
Carver
Chabon
DeLillo
Eggers
Eggers
Eggers
Foster Wallace
Foster Wallace


```
| Gaiman      |
| Gaiman      |
| Gaiman      |
| Harris      |
| Harris      |
| Lahiri      |
| Lahiri      |
| Saunders    |
| Smith       |
| Steinbeck   |
```

19 rows in set (0.01 sec)

```
mysql>
mysql> SELECT title FROM books;
```

```
-----+-----
| title |
+-----+-----
| The Namesake |
| Norse Mythology |
| American Gods |
| Interpreter of Maladies |
| A Hologram for the King: A Novel |
| The Circle |
| The Amazing Adventures of Kavalier & Clay |
| Just Kids |
| A Heartbreaking Work of Staggering Genius |
| Coraline |
| What We Talk About When We Talk About Love: Stories |
| Where I'm Calling From: Selected Stories |
| White Noise |
| Cannery Row |
| Oblivion: Stories |
| Consider the Lobster |
| 10% Happier |
| fake_book |
| Lincoln In The Bardo |
+-----+-----
```

19 rows in set (0.00 sec)

```
mysql>
mysql> SELECT title FROM books ORDER BY title;
```

```
-----+-----
| title |
+-----+-----
| 10% Happier |
| A Heartbreaking Work of Staggering Genius |
| A Hologram for the King: A Novel |
| American Gods |
| Cannery Row |
| Consider the Lobster |
| Coraline |
| fake_book |
| Interpreter of Maladies |
| Just Kids |
| Lincoln In The Bardo |
| Norse Mythology |
| Oblivion: Stories |
| The Amazing Adventures of Kavalier & Clay |
| The Circle |
| The Namesake |
| What We Talk About When We Talk About Love: Stories |
| Where I'm Calling From: Selected Stories |
| White Noise |
+-----+-----
```

19 rows in set (0.00 sec)

```
mysql> SELECT author_lname FROM books ORDER BY author_lname DESC;
```

```
-----+-----
| author_lname |
+-----+-----
| Steinbeck |
| Smith |
| Saunders |
| Lahiri |
| Lahiri |
| Harris |
| Harris |
| Gaiman |
| Gaiman |
| Gaiman |
| Foster Wallace |
| Foster Wallace |
| Eggers |
| Eggers |
| Delillo |
| Chabon |
| Carver |
| Carver |
+-----+-----
```

19 rows in set (0.00 sec)

```
mysql>
mysql> SELECT released_year FROM books;
```

```
-----+-----
| released_year |
+-----+-----
| 2003 |
| 2016 |
| 2001 |
| 1996 |
| 2012 |
| 2013 |
| 2000 |
| 2010 |
| 2001 |
| 2003 |
| 1981 |
| 1989 |
| 1985 |
| 1945 |
| 2004 |
| 2005 |
| 2014 |
| 2001 |
| 2017 |
+-----+-----
```

19 rows in set (0.00 sec)

```
mysql>
mysql> SELECT released_year FROM books ORDER BY released_year;
```

```
-----+-----
| released_year |
+-----+-----
| 1945 |
| 1981 |
| 1985 |
| 1989 |
| 1996 |
| 2000 |
| 2001 |
| 2001 |
| 2001 |
| 2003 |
| 2003 |
| 2004 |
| 2005 |
| 2010 |
| 2012 |
| 2013 |
| 2014 |
| 2016 |
| 2017 |
+-----+-----
```

19 rows in set (0.00 sec)

```
mysql>
mysql> SELECT released_year FROM books ORDER BY released_year DESC;
```

```
-----+-----
| released_year |
+-----+-----
| 2017 |
| 2016 |
| 2014 |
| 2013 |
| 2012 |
| 2010 |
| 2005 |
| 2004 |
| 2003 |
| 2003 |
| 2001 |
| 2001 |
| 2001 |
| 2000 |
| 1996 |
| 1989 |
| 1985 |
| 1981 |
| 1945 |
+-----+-----
```

19 rows in set (0.00 sec)

```
mysql>
mysql> SELECT released_year FROM books ORDER BY released_year ASC;
```

released_year
1945
1981
1985
1989
1996
2000
2001
2001
2001
2003
2003
2005
2010
2012
2013
2014
2016
2017

19 rows in set (0.00 sec)

```
mysql>
mysql> SELECT title, released_year, pages FROM books ORDER BY released_year;
```

title	released_year	pages
Cannery Row	1945	181
What We Talk About When We Talk About Love: Stories	1981	176
White Noise	1985	320
Where I'm Calling From: Selected Stories	1989	526
Interpreter of Maladies	1996	198
The Amazing Adventures of Kavalier & Clay	2000	634
American Gods	2001	465
A Heartbreaking Work of Staggering Genius	2001	437
fake_book	2001	428
The Namesake	2003	291
Coraline	2003	208
Oblivion: Stories	2004	329
Consider the Lobster	2005	343
Just Kids	2010	304
A Hologram for the King: A Novel	2012	352
The Circle	2013	584
10% Happier	2014	256
Norse Mythology	2016	304
Lincoln In The Bardo	2017	367

19 rows in set (0.00 sec)

```
mysql>
mysql> SELECT title, pages FROM books ORDER BY released_year;
```

title	pages
Cannery Row	181
What We Talk About When We Talk About Love: Stories	176
White Noise	320
Where I'm Calling From: Selected Stories	526
Interpreter of Maladies	198
The Amazing Adventures of Kavalier & Clay	634
American Gods	465
A Heartbreaking Work of Staggering Genius	437
fake_book	428
The Namesake	291
Coraline	208
Oblivion: Stories	329
Consider the Lobster	343
Just Kids	304
A Hologram for the King: A Novel	352
The Circle	584
10% Happier	256
Norse Mythology	304
Lincoln In The Bardo	367

19 rows in set (0.00 sec)

```
mysql>
mysql> SELECT title, author_fname, author_lname
-> FROM books ORDER BY 2;
```

title	author_fname	author_lname
10% Happier	Dan	Harris
A Hologram for the King: A Novel	Dave	Eggers
The Circle	Dave	Eggers
A Heartbreaking Work of Staggering Genius	Dave	Eggers
Oblivion: Stories	David	Foster Wallace
Consider the Lobster	David	Foster Wallace
White Noise	Don	DeLillo
fake_book	Freida	Harris
Lincoln In The Bardo	George	Saunders
The Namesake	Jhumpa	Lahiri
Interpreter of Maladies	Jhumpa	Lahiri
Cannery Row	John	Steinbeck
The Amazing Adventures of Kavalier & Clay	Michael	Chabon
Norse Mythology	Neil	Gaiman
American Gods	Neil	Gaiman
Coraline	Neil	Gaiman
Just Kids	Patti	Smith
What We Talk About When We Talk About Love: Stories	Raymond	Carver
Where I'm Calling From: Selected Stories	Raymond	Carver

19 rows in set (0.00 sec)

```
mysql>
mysql> SELECT title, author_fname, author_lname
-> FROM books ORDER BY 3;
```

title	author_fname	author_lname
What We Talk About When We Talk About Love: Stories	Raymond	Carver
Where I'm Calling From: Selected Stories	Raymond	Carver
The Amazing Adventures of Kavalier & Clay	Michael	Chabon
White Noise	Don	DeLillo
A Hologram for the King: A Novel	Dave	Eggers
The Circle	Dave	Eggers
A Heartbreaking Work of Staggering Genius	Dave	Eggers
Oblivion: Stories	David	Foster Wallace
Consider the Lobster	David	Foster Wallace
Norse Mythology	Neil	Gaiman
American Gods	Neil	Gaiman
Coraline	Neil	Gaiman
10% Happier	Dan	Harris
fake_book	Freida	Harris
The Namesake	Jhumpa	Lahiri
Interpreter of Maladies	Jhumpa	Lahiri
Lincoln In The Bardo	George	Saunders
Just Kids	Patti	Smith
Cannery Row	John	Steinbeck

19 rows in set (0.00 sec)

```
mysql>
mysql> SELECT title, author_fname, author_lname
-> FROM books ORDER BY 1;
```

title	author_fname	author_lname
White Noise	Don	DeLillo
Where I'm Calling From: Selected Stories	Raymond	Carver
What We Talk About When We Talk About Love: Stories	Raymond	Carver
10% Happier	Dan	Harris
A Heartbreaking Work of Staggering Genius	Dave	Eggers
A Hologram for the King: A Novel	Dave	Eggers
American Gods	Neil	Gaiman
Cannery Row	John	Steinbeck
Consider the Lobster	David	Foster Wallace
Coraline	Neil	Gaiman
fake_book	Freida	Harris
Interpreter of Maladies	Jhumpa	Lahiri
Just Kids	Patti	Smith
Lincoln In The Bardo	George	Saunders
Norse Mythology	Neil	Gaiman
Oblivion: Stories	David	Foster Wallace
The Amazing Adventures of Kavalier & Clay	Michael	Chabon
The Circle	Dave	Eggers
The Namesake	Jhumpa	Lahiri
What We Talk About When We Talk About Love: Stories	Raymond	Carver
Where I'm Calling From: Selected Stories	Raymond	Carver
White Noise	Don	DeLillo

19 rows in set (0.00 sec)

```
mysql>
mysql> SELECT title, author_fname, author_lname
-> FROM books ORDER BY 1 DESC;
```

title	author_fname	author_lname
White Noise	Don	DeLillo
Where I'm Calling From: Selected Stories	Raymond	Carver
What We Talk About When We Talk About Love: Stories	Raymond	Carver

The Namesake	Jhumpa	Lahiri	
The Circle	Dave	Eggers	
The Amazing Adventures of Kavalier & Clay	Michael	Chabon	
Oblivion: Stories	David	Foster Wallace	
Norse Mythology	Neil	Gaiman	
Lincoln In The Bardo	George	Saunders	
Just Kids	Patti	Smith	
Interpreter of Maladies	Jhumpa	Lahiri	
fake_book	Freida	Harris	
Coraline	Neil	Gaiman	
Consider the Lobster	David	Foster Wallace	
Cannery Row	John	Steinbeck	
American Gods	Neil	Gaiman	
A Hologram for the King: A Novel	Dave	Eggers	
A Heartbreaking Work of Staggering Genius	Dave	Eggers	
10% Happier	Dan	Harris	

19 rows in set (0.00 sec)

mysql>

mysql> SELECT author_lname, title
-> FROM books ORDER BY 2;

author_lname	title
Harris	10% Happier
Eggers	A Heartbreaking Work of Staggering Genius
Eggers	A Hologram for the King: A Novel
Gaiman	American Gods
Steinbeck	Cannery Row
Foster Wallace	Consider the Lobster
Gaiman	Coraline
Harris	fake_book
Lahiri	Interpreter of Maladies
Smith	Just Kids
Saunders	Lincoln In The Bardo
Gaiman	Norse Mythology
Foster Wallace	Oblivion: Stories
Chabon	The Amazing Adventures of Kavalier & Clay
Eggers	The Circle
Lahiri	The Namesake
Carver	What We Talk About When We Talk About Love: Stories
Carver	Where I'm Calling From: Selected Stories
DeLillo	White Noise

19 rows in set (0.00 sec)

mysql>

mysql> SELECT author_fname, author_lname FROM books
-> ORDER BY author_lname, author_fname;

author_fname	author_lname
Raymond	Carver
Raymond	Carver
Michael	Chabon
Don	DeLillo
Dave	Eggers
Dave	Eggers
Dave	Eggers
David	Foster Wallace
David	Foster Wallace
Neil	Gaiman
Neil	Gaiman
Neil	Gaiman
Dan	Harris
Freida	Harris
Jhumpa	Lahiri
Jhumpa	Lahiri
George	Saunders
Patti	Smith
John	Steinbeck

19 rows in set (0.00 sec)

mysql>

mysql>

mysql>

mysql>

mysql>

mysql>

mysql>

mysql>

mysql>

mysql> SELECT title FROM books LIMIT 3;

title
The Namesake
Norse Mythology
American Gods

3 rows in set (0.00 sec)

mysql>

mysql> SELECT title FROM books LIMIT 1;

title
The Namesake

1 row in set (0.00 sec)

mysql>

mysql> SELECT title FROM books LIMIT 10;

title
The Namesake
Norse Mythology
American Gods
Interpreter of Maladies
A Hologram for the King: A Novel
The Circle
The Amazing Adventures of Kavalier & Clay
Just Kids
A Heartbreaking Work of Staggering Genius
Coraline

10 rows in set (0.00 sec)

mysql>

mysql> SELECT * FROM books LIMIT 1;

book_id	title	author_fname	author_lname	released_year	stock_quantity	pages
1	The Namesake	Jhumpa	Lahiri	2003	32	291

1 row in set (0.00 sec)

mysql>

mysql> SELECT title, released_year FROM books
-> ORDER BY released_year DESC LIMIT 5;

title	released_year
Lincoln In The Bardo	2017
Norse Mythology	2016
10% Happier	2014
The Circle	2013
A Hologram for the King: A Novel	2012

5 rows in set (0.00 sec)

mysql>

mysql> SELECT title, released_year FROM books
-> ORDER BY released_year DESC LIMIT 1;

title	released_year
Lincoln In The Bardo	2017

1 row in set (0.00 sec)

mysql>

mysql> SELECT title, released_year FROM books
-> ORDER BY released_year DESC LIMIT 14;

title	released_year
Lincoln In The Bardo	2017
Norse Mythology	2016
10% Happier	2014
The Circle	2013
A Hologram for the King: A Novel	2012
Just Kids	2010
Consider the Lobster	2005
Oblivion: Stories	2004
The Namesake	2003
Coraline	2003
American Gods	2001
A Heartbreaking Work of Staggering Genius	2001
fake_book	2001
The Amazing Adventures of Kavalier & Clay	2000

```
rows in set (0.00 sec)

mysql> SELECT title, released_year FROM books
-> ORDER BY released_year DESC LIMIT 0,5;
+-----+-----+
| title | released_year |
+-----+-----+
| Lincoln In The Bardo | 2017 |
| Norse Mythology | 2016 |
| 10% Happier | 2014 |
| The Circle | 2013 |
| A Hologram for the King: A Novel | 2012 |
+-----+-----+
5 rows in set (0.00 sec)

mysql> 
mysql> SELECT title, released_year FROM books
-> ORDER BY released_year DESC LIMIT 0,3;
+-----+-----+
| title | released_year |
+-----+-----+
| Lincoln In The Bardo | 2017 |
| Norse Mythology | 2016 |
| 10% Happier | 2014 |
+-----+-----+
3 rows in set (0.00 sec)

mysql> 
mysql> SELECT title, released_year FROM books
-> ORDER BY released_year DESC LIMIT 1,3;
+-----+-----+
| title | released_year |
+-----+-----+
| Norse Mythology | 2016 |
| 10% Happier | 2014 |
| The Circle | 2013 |
+-----+-----+
3 rows in set (0.00 sec)

mysql> 
mysql> SELECT title, released_year FROM books
-> ORDER BY released_year DESC LIMIT 10,1;
+-----+-----+
| title | released_year |
+-----+-----+
| American Gods | 2001 |
+-----+-----+
1 row in set (0.00 sec)

mysql> 
mysql> SELECT * FROM tbl LIMIT 95,18446744073709551615;
ERROR 1146 (42S02): Table 'book_shop.tbl' doesn't exist
mysql> 
mysql> SELECT title FROM books LIMIT 5;
+-----+
| title |
+-----+
| The Namesake |
| Norse Mythology |
| American Gods |
| Interpreter of Maladies |
| A Hologram for the King: A Novel |
+-----+
5 rows in set (0.00 sec)

mysql> 
mysql> SELECT title FROM books LIMIT 5, 123219476457;
+-----+
| title |
+-----+
| The Circle |
| The Amazing Adventures of Kavalier & Clay |
| Just Kids |
| A Heartbreaking Work of Staggering Genius |
| Coraline |
| What We Talk About When We Talk About Love: Stories |
| Where I'm Calling From: Selected Stories |
| White Noise |
| Cannery Row |
| Oblivion: Stories |
| Consider the Lobster |
| 10% Happier |
| fake_book |
| Lincoln In The Bardo |
+-----+
14 rows in set (0.01 sec)

mysql> 
mysql> SELECT title FROM books LIMIT 5, 50;
+-----+
| title |
+-----+
| The Circle |
| The Amazing Adventures of Kavalier & Clay |
| Just Kids |
| A Heartbreaking Work of Staggering Genius |
| Coraline |
| What We Talk About When We Talk About Love: Stories |
| Where I'm Calling From: Selected Stories |
| White Noise |
| Cannery Row |
| Oblivion: Stories |
| Consider the Lobster |
| 10% Happier |
| fake_book |
| Lincoln In The Bardo |
+-----+
14 rows in set (0.00 sec)

mysql> 
mysql> 
mysql> 
mysql> 
mysql> 
mysql> 
mysql> 
mysql> 
mysql> (Z35)234-0987 LIKE '(_____-_____')
->
->
->
->
ERROR 1664 (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 '(Z35)234-0987 LIKE '(_____-_____'' at line 1
mysql> 
mysql> 
mysql> 
mysql> 
mysql> 
mysql> 
mysql> 
mysql> 
mysql> SELECT title FROM books WHERE title LIKE '%stories%';
+-----+
| title |
+-----+
| What We Talk About When We Talk About Love: Stories |
| Where I'm Calling From: Selected Stories |
| Oblivion: Stories |
+-----+
3 rows in set (0.00 sec)

mysql> 
mysql> SELECT title, pages FROM books ORDER BY pages DESC LIMIT 1;
+-----+-----+
| title | pages |
+-----+-----+
| The Amazing Adventures of Kavalier & Clay | 634 |
+-----+-----+
1 row in set (0.00 sec)

mysql> 
mysql> SELECT
-> CONCAT(title, ' - ', released_year) AS summary
-> FROM books ORDER BY released_year DESC LIMIT 3;
+-----+
| summary |
+-----+
| Lincoln In The Bardo - 2017 |
| Norse Mythology - 2016 |
| 10% Happier - 2014 |
+-----+
3 rows in set (0.00 sec)

mysql> 
mysql> SELECT title, author_name FROM books WHERE author_name LIKE '% %';
+-----+-----+
| title | author_name |
+-----+-----+
```

```

| Oblivion: Stories | Foster Wallace |
| Consider the Lobster | Foster Wallace |
-----
2 rows in set (0.00 sec)

```

```

mysql>
mysql> SELECT title, released_year, stock_quantity
      -> FROM books ORDER BY stock_quantity LIMIT 3;
-----
| title | released_year | stock_quantity |
-----
| Where I'm Calling From: Selected Stories | 1989 | 12 |
| American Gods | 2001 | 12 |
| What We Talk About When We Talk About Love: Stories | 1981 | 23 |
-----
3 rows in set (0.00 sec)

```

```

mysql>
mysql> SELECT title, author_lname
      -> FROM books ORDER BY author_lname, title;
-----
| title | author_lname |
-----
| What We Talk About When We Talk About Love: Stories | Carver |
| Where I'm Calling From: Selected Stories | Carver |
| The Amazing Adventures of Kavalier & Clay | Chabon |
| White Noise | DeLillo |
| A Heartbreaking Work of Staggering Genius | Eggers |
| A Hologram for the King: A Novel | Eggers |
| The Circle | Eggers |
| Consider the Lobster | Foster Wallace |
| Oblivion: Stories | Gaiman |
| American Gods | Gaiman |
| Coraline | Gaiman |
| Norse Mythology | Gaiman |
| 10% Happier | Harris |
| fake_book | Harris |
| Interpreter of Maladies | Lahiri |
| The Namesake | Lahiri |
| Lincoln In The Bardo | Saunders |
| Just Kids | Smith |
| Cannery Row | Steinbeck |
-----
19 rows in set (0.00 sec)

```

```

mysql>
mysql> SELECT title, author_lname
      -> FROM books ORDER BY 2,1;
-----
| title | author_lname |
-----
| What We Talk About When We Talk About Love: Stories | Carver |
| Where I'm Calling From: Selected Stories | Carver |
| The Amazing Adventures of Kavalier & Clay | Chabon |
| White Noise | DeLillo |
| A Heartbreaking Work of Staggering Genius | Eggers |
| A Hologram for the King: A Novel | Eggers |
| The Circle | Eggers |
| Consider the Lobster | Foster Wallace |
| Oblivion: Stories | Foster Wallace |
| American Gods | Gaiman |
| Coraline | Gaiman |
| Norse Mythology | Gaiman |
| 10% Happier | Harris |
| fake_book | Harris |
| Interpreter of Maladies | Lahiri |
| The Namesake | Lahiri |
| Lincoln In The Bardo | Saunders |
| Just Kids | Smith |
| Cannery Row | Steinbeck |
-----
19 rows in set (0.00 sec)

```

```

mysql>
mysql> SELECT
      ->     CONCAT(
      ->         'MY FAVORITE AUTHOR IS ',
      ->         UPPER(author_fname),
      ->         ' ',
      ->         UPPER(author_lname),
      ->         '!'
      ->     ) AS yell
      -> FROM books ORDER BY author_lname;
-----
| yell |
-----
| MY FAVORITE AUTHOR IS RAYMOND CARVER! |
| MY FAVORITE AUTHOR IS RAYMOND CARVER! |
| MY FAVORITE AUTHOR IS MICHAEL CHABON! |
| MY FAVORITE AUTHOR IS DON DELILLO! |
| MY FAVORITE AUTHOR IS DAVE EGGERS! |
| MY FAVORITE AUTHOR IS DAVE EGGERS! |
| MY FAVORITE AUTHOR IS DAVE EGGERS! |
| MY FAVORITE AUTHOR IS DAVID FOSTER WALLACE! |
| MY FAVORITE AUTHOR IS DAVID FOSTER WALLACE! |
| MY FAVORITE AUTHOR IS NEIL GAIMAN! |
| MY FAVORITE AUTHOR IS NEIL GAIMAN! |
| MY FAVORITE AUTHOR IS NEIL GAIMAN! |
| MY FAVORITE AUTHOR IS DAN HARRIS! |
| MY FAVORITE AUTHOR IS FREIDA HARRIS! |
| MY FAVORITE AUTHOR IS JHUMPA LAHIRI! |
| MY FAVORITE AUTHOR IS JHUMPA LAHIRI! |
| MY FAVORITE AUTHOR IS GEORGE SAUNDERS! |
| MY FAVORITE AUTHOR IS PATTI SMITH! |
| MY FAVORITE AUTHOR IS JOHN STEINBECK! |
-----
19 rows in set (0.00 sec)

```

```

mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql> SELECT COUNT(*) FROM books;
-----
| COUNT(*) |
-----
| 19 |
-----
1 row in set (0.01 sec)

```

```

mysql>
mysql> SELECT COUNT(author_fname) FROM books;
-----
| COUNT(author_fname) |
-----
| 19 |
-----
1 row in set (0.00 sec)

```

```

mysql>
mysql> SELECT COUNT(DISTINCT author_fname) FROM books;
-----
| COUNT(DISTINCT author_fname) |
-----
| 12 |
-----
1 row in set (0.00 sec)

```

```

mysql>
mysql> SELECT COUNT(DISTINCT author_lname) FROM books;
-----
| COUNT(DISTINCT author_lname) |
-----
| 11 |
-----
1 row in set (0.00 sec)

```

```

mysql>
mysql> SELECT COUNT(DISTINCT author_lname, author_fname) FROM books;
-----
| COUNT(DISTINCT author_lname, author_fname) |
-----
| 12 |
-----
1 row in set (0.00 sec)

```

```

mysql>
mysql> SELECT title FROM books WHERE title LIKE '%the%';
-----
| title |
-----
| The Namesake |
| A Hologram for the King: A Novel |
| The Circle |
| The Amazing Adventures of Kavalier & Clay |
| Consider the Lobster |
| Lincoln In The Bardo |
-----

```

6 rows in set (0.00 sec)

```
mysql>
mysql> SELECT COUNT(*) FROM books WHERE title LIKE 'NtheN';
+-----+
| COUNT(*) |
+-----+
|         6 |
+-----+
```

1 row in set (0.00 sec)

```
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql> SELECT title, author_lname FROM books;
```

title	author_lname
The Namesake	Lahiri
Norse Mythology	Gaiman
American Gods	Gaiman
Interpreter of Maladies	Lahiri
A Hologram for the King: A Novel	Eggers
The Circle	Eggers
The Amazing Adventures of Kavalier & Clay	Chabon
Just Kids	Smith
A Heartbreaking Work of Staggering Genius	Eggers
Coraline	Gaiman
What We Talk About When We Talk About Love: Stories	Carver
Where I'm Calling From: Selected Stories	Carver
White Noise	DeLillo
Cannery Row	Steinbeck
Oblivion: Stories	Foster Wallace
Consider the Lobster	Foster Wallace
10% Happier	Harris
fake_book	Harris
Lincoln In The Bardo	Saunders

19 rows in set (0.00 sec)

```
mysql>
mysql> SELECT title, author_lname FROM books
-> GROUP BY author_lname;
ERROR 1055 (42000): Expression #1 of SELECT list is not in GROUP BY clause and contains nonaggregated column 'book_shop.books.title' which is not functionally dependent on columns in GROUP BY clause; this is incompatible with sql_mode=only_full_group_by
```

```
mysql>
mysql> SELECT author_lname, COUNT(*)
-> FROM books GROUP BY author_lname;
```

author_lname	COUNT(*)
Lahiri	2
Gaiman	3
Eggers	3
Chabon	1
Smith	1
Carver	2
DeLillo	1
Steinbeck	1
Foster Wallace	2
Harris	2
Saunders	1

11 rows in set (0.01 sec)

```
mysql>
mysql>
mysql> SELECT title, author_fname, author_lname FROM books;
```

title	author_fname	author_lname
The Namesake	Jhumpa	Lahiri
Norse Mythology	Neil	Gaiman
American Gods	Neil	Gaiman
Interpreter of Maladies	Jhumpa	Lahiri
A Hologram for the King: A Novel	Dave	Eggers
The Circle	Dave	Eggers
The Amazing Adventures of Kavalier & Clay	Michael	Chabon
Just Kids	Patti	Smith
A Heartbreaking Work of Staggering Genius	Dave	Eggers
Coraline	Neil	Gaiman
What We Talk About When We Talk About Love: Stories	Raymond	Carver
Where I'm Calling From: Selected Stories	Raymond	Carver
White Noise	Don	DeLillo
Cannery Row	John	Steinbeck
Oblivion: Stories	David	Foster Wallace
Consider the Lobster	David	Foster Wallace
10% Happier	Dan	Harris
fake_book	Freida	Harris
Lincoln In The Bardo	George	Saunders

19 rows in set (0.00 sec)

```
mysql>
mysql> SELECT title, author_fname, author_lname FROM books GROUP BY author_lname;
ERROR 1055 (42000): Expression #1 of SELECT list is not in GROUP BY clause and contains nonaggregated column 'book_shop.books.title' which is not functionally dependent on columns in GROUP BY clause; this is incompatible with sql_mode=only_full_group_by
```

```
mysql>
mysql> SELECT author_fname, author_lname, COUNT(*) FROM books GROUP BY author_lname;
```

```
mysql>
mysql> SELECT author_fname, author_lname, COUNT(*) FROM books GROUP BY author_lname, author_fname;
```

author_fname	author_lname	COUNT(*)
Jhumpa	Lahiri	2
Neil	Gaiman	3
Dave	Eggers	3
Michael	Chabon	1
Patti	Smith	1
Raymond	Carver	2
Don	DeLillo	1
John	Steinbeck	1
David	Foster Wallace	2
Dan	Harris	1
Freida	Harris	1
George	Saunders	1

12 rows in set (0.00 sec)

```
mysql>
mysql> SELECT released_year FROM books;
```

released_year
2003
2016
2001
1996
2012
2013
2000
2010
2001
2003
1981
1989
1985
1945
2004
2005
2014
2001
2017

19 rows in set (0.00 sec)

```
mysql>
mysql> SELECT released_year, COUNT(*) FROM books GROUP BY released_year;
```

released_year	COUNT(*)
2003	2
2016	1
2001	3
1996	1
2012	1
2013	1
2000	1
2010	1
1981	1
1989	1
1985	1
1945	1
2004	1
2005	1
2014	1
2017	1

```

+-----+
16 rows in set (0.00 sec)

mysql>
mysql> SELECT CONCAT('In ', released_year, ' ', COUNT(*), ' book(s) released') AS year FROM books GROUP BY released_year;
+-----+
| year |
+-----+
| In 2003 2 book(s) released |
| In 2016 1 book(s) released |
| In 2001 3 book(s) released |
| In 1996 1 book(s) released |
| In 2012 1 book(s) released |
| In 2013 1 book(s) released |
| In 2000 1 book(s) released |
| In 2010 1 book(s) released |
| In 1981 1 book(s) released |
| In 1989 1 book(s) released |
| In 1985 1 book(s) released |
| In 1945 1 book(s) released |
| In 2006 1 book(s) released |
| In 2014 1 book(s) released |
| In 2017 1 book(s) released |
+-----+
16 rows in set (0.00 sec)

mysql>
mysql>
mysql>
mysql>
mysql>
mysql> SELECT MIN(released_year)
-> FROM books;
+-----+
| MIN(released_year) |
+-----+
| 1945 |
+-----+
1 row in set (0.01 sec)

mysql>
mysql> SELECT MIN(released_year) FROM books;
+-----+
| MIN(released_year) |
+-----+
| 1945 |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> SELECT MIN(pages) FROM books;
+-----+
| MIN(pages) |
+-----+
| 176 |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> SELECT MAX(pages)
-> FROM books;
+-----+
| MAX(pages) |
+-----+
| 634 |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> SELECT MAX(released_year)
-> FROM books;
+-----+
| MAX(released_year) |
+-----+
| 2017 |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> SELECT MAX(pages), title
-> FROM books;
ERROR 1140 (42000): In aggregated query without GROUP BY, expression #2 of SELECT list contains nonaggregated column 'book_shop.books.title'; this is incompatible with sql_mode=only_full_group_by
mysql>
mysql>
mysql> SELECT MAX(pages), title
-> FROM books;
ERROR 1140 (42000): In aggregated query without GROUP BY, expression #2 of SELECT list contains nonaggregated column 'book_shop.books.title'; this is incompatible with sql_mode=only_full_group_by
mysql>
mysql>
mysql>
mysql>
mysql> SELECT * FROM books
-> WHERE pages = (SELECT Min(pages)
-> FROM books);
+-----+
| book_id | title | author_fname | author_lname | released_year | stock_quantity | pages |
+-----+
| 11 | What We Talk About When We Talk About Love: Stories | Raymond | Carver | 1981 | 23 | 176 |
+-----+
1 row in set (0.01 sec)

mysql>
mysql> SELECT title, pages FROM books
-> WHERE pages = (SELECT Max(pages)
-> FROM books);
+-----+
| title | pages |
+-----+
| The Amazing Adventures of Kavalier & Clay | 634 |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> SELECT title, pages FROM books
-> WHERE pages = (SELECT Min(pages)
-> FROM books);
+-----+
| title | pages |
+-----+
| What We Talk About When We Talk About Love: Stories | 176 |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> SELECT * FROM books
-> ORDER BY pages ASC LIMIT 1;
+-----+
| book_id | title | author_fname | author_lname | released_year | stock_quantity | pages |
+-----+
| 11 | What We Talk About When We Talk About Love: Stories | Raymond | Carver | 1981 | 23 | 176 |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> SELECT title, pages FROM books
-> ORDER BY pages ASC LIMIT 1;
+-----+
| title | pages |
+-----+
| What We Talk About When We Talk About Love: Stories | 176 |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> SELECT * FROM books
-> ORDER BY pages DESC LIMIT 1;
+-----+
| book_id | title | author_fname | author_lname | released_year | stock_quantity | pages |
+-----+
| 7 | The Amazing Adventures of Kavalier & Clay | Michael | Chabon | 2000 | 68 | 634 |
+-----+
1 row in set (0.00 sec)

mysql>
mysql>
mysql>
mysql>
mysql>
mysql> SELECT author_fname,
-> author_lname,
-> Min(released_year)
-> FROM books
-> GROUP BY author_lname,
-> author_fname;
+-----+
| author_fname | author_lname | Min(released_year) |
+-----+

```

Jhumpa	Lahiri	1996
Neil	Gaiman	2001
Dave	Eggers	2001
Michael	Chabon	2000
Patti	Smith	2010
Raymond	Carver	1981
Don	DeLillo	1985
John	Steinbeck	1945
David	Foster Wallace	2004
Dan	Harris	2014
Freida	Harris	2001
George	Saunders	2017

12 rows in set (0.00 sec)

```
mysql>
mysql> SELECT
  -> author_fname,
  -> author_lname,
  -> Max(pages)
  -> FROM books
  -> GROUP BY author_lname,
  -> author_fname;
```

author_fname	author_lname	Max(pages)
Jhumpa	Lahiri	291
Neil	Gaiman	465
Dave	Eggers	584
Michael	Chabon	634
Patti	Smith	384
Raymond	Carver	526
Don	DeLillo	320
John	Steinbeck	181
David	Foster Wallace	343
Dan	Harris	256
Freida	Harris	428
George	Saunders	367

12 rows in set (0.00 sec)

```
mysql>
mysql> SELECT
  -> CONCAT(author_fname, ' ', author_lname) AS author,
  -> MAX(pages) AS 'longest book'
  -> FROM books
  -> GROUP BY author_lname,
  -> author_fname;
```

author	longest book
Jhumpa Lahiri	291
Neil Gaiman	465
Dave Eggers	584
Michael Chabon	634
Patti Smith	384
Raymond Carver	526
Don DeLillo	320
John Steinbeck	181
David Foster Wallace	343
Dan Harris	256
Freida Harris	428
George Saunders	367

12 rows in set (0.00 sec)

```
mysql>
mysql>
mysql>
mysql>
mysql>
mysql> SELECT SUM(pages)
  -> FROM books;
```

SUM(pages)
6623

1 row in set (0.00 sec)

```
mysql>
mysql> SELECT SUM(released_year) FROM books;
```

SUM(released_year)
37996

1 row in set (0.00 sec)

```
mysql>
mysql> SELECT author_fname,
  -> author_lname,
  -> Sum(pages)
  -> FROM books
  -> GROUP BY
  -> author_lname,
  -> author_fname;
```

author_fname	author_lname	Sum(pages)
Jhumpa	Lahiri	489
Neil	Gaiman	977
Dave	Eggers	1293
Michael	Chabon	634
Patti	Smith	384
Raymond	Carver	702
Don	DeLillo	320
John	Steinbeck	181
David	Foster Wallace	672
Dan	Harris	256
Freida	Harris	428
George	Saunders	367

12 rows in set (0.00 sec)

```
mysql>
mysql> SELECT author_fname,
  -> author_lname,
  -> Sum(released_year)
  -> FROM books
  -> GROUP BY
  -> author_lname,
  -> author_fname;
```

author_fname	author_lname	Sum(released_year)
Jhumpa	Lahiri	3999
Neil	Gaiman	6020
Dave	Eggers	6026
Michael	Chabon	2000
Patti	Smith	2010
Raymond	Carver	3970
Don	DeLillo	1985
John	Steinbeck	1945
David	Foster Wallace	4009
Dan	Harris	2014
Freida	Harris	2001
George	Saunders	2017

12 rows in set (0.00 sec)

```
mysql>
mysql>
mysql>
mysql>
mysql>
mysql> SELECT AVG(released_year)
  -> FROM books;
```

AVG(released_year)
1999.7895

1 row in set (0.00 sec)

```
mysql>
mysql> SELECT AVG(pages)
  -> FROM books;
```

AVG(pages)
348.5789

1 row in set (0.00 sec)

```
mysql>
mysql> SELECT AVG(stock_quantity)
  -> FROM books
  -> GROUP BY released_year;
```



```

+-----+
| AVG(stock_quantity) |
+-----+
| 66.0000 |
| 43.0000 |
| 134.3333 |
| 97.0000 |
| 154.0000 |
| 26.0000 |
| 68.0000 |
| 55.0000 |
| 23.0000 |
| 12.0000 |
| 49.0000 |
| 95.0000 |
| 172.0000 |
| 92.0000 |
| 29.0000 |
| 1000.0000 |
+-----+
16 rows in set (0.00 sec)

```

```

mysql>
mysql> SELECT released_year, AVG(stock_quantity)
-> FROM books
-> GROUP BY released_year;

```

```

+-----+
| released_year | AVG(stock_quantity) |
+-----+
| 2003 | 66.0000 |
| 2016 | 43.0000 |
| 2001 | 134.3333 |
| 1996 | 97.0000 |
| 2012 | 154.0000 |
| 2013 | 26.0000 |
| 2000 | 68.0000 |
| 2010 | 55.0000 |
| 1981 | 23.0000 |
| 1989 | 12.0000 |
| 1985 | 49.0000 |
| 1945 | 95.0000 |
| 2004 | 172.0000 |
| 2005 | 92.0000 |
| 2014 | 29.0000 |
| 2017 | 1000.0000 |
+-----+
16 rows in set (0.00 sec)

```

```

mysql>
mysql> SELECT author_fname, author_lname, AVG(pages) FROM books
-> GROUP BY author_lname, author_fname;

```

```

+-----+
| author_fname | author_lname | AVG(pages) |
+-----+
| Jhumpa | Lahiri | 244.5000 |
| Neil | Gaiman | 325.6667 |
| Dave | Eggers | 431.0000 |
| Michael | Chabon | 634.0000 |
| Patti | Smith | 304.0000 |
| Raymond | Carver | 351.0000 |
| Don | DeLillo | 320.0000 |
| John | Steinbeck | 181.0000 |
| David | Foster Wallace | 336.0000 |
| Dan | Harris | 256.0000 |
| Freida | Harris | 428.0000 |
| George | Saunders | 367.0000 |
+-----+
12 rows in set (0.00 sec)

```

```

mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql> SELECT COUNT(*) FROM books;
+-----+
| COUNT(*) |
+-----+
| 19 |
+-----+
1 row in set (0.00 sec)

```

```

mysql>
mysql> SELECT COUNT(*) FROM books GROUP BY released_year;
+-----+
| COUNT(*) |
+-----+
| 2 |
| 1 |
| 3 |
| 1 |
| 1 |
| 1 |
| 1 |
| 1 |
| 1 |
| 1 |
| 1 |
| 1 |
| 1 |
| 1 |
| 1 |
| 1 |
| 1 |
| 1 |
+-----+
16 rows in set (0.00 sec)

```

```

mysql>
mysql> SELECT released_year, COUNT(*) FROM books GROUP BY released_year;
+-----+
| released_year | COUNT(*) |
+-----+
| 2003 | 2 |
| 2016 | 1 |
| 2001 | 3 |
| 1996 | 1 |
| 2012 | 1 |
| 2013 | 1 |
| 2000 | 1 |
| 2010 | 1 |
| 1981 | 1 |
| 1989 | 1 |
| 1985 | 1 |
| 1945 | 1 |
| 2004 | 1 |
| 2005 | 1 |
| 2014 | 1 |
| 2017 | 1 |
+-----+
16 rows in set (0.00 sec)

```

```

mysql>
mysql> SELECT Sum(stock_quantity) FROM BOOKS;
+-----+
| Sum(stock_quantity) |
+-----+
| 2450 |
+-----+
1 row in set (0.00 sec)

```

```

mysql>
mysql> SELECT AVG(released_year) FROM books GROUP BY author_lname, author_fname;
+-----+
| AVG(released_year) |
+-----+
| 1999.5000 |
| 2006.6667 |
| 2000.6667 |
| 2000.0000 |
| 2010.0000 |
| 1985.0000 |
| 1985.0000 |
| 1945.0000 |
| 2004.5000 |
| 2014.0000 |
| 2001.0000 |
| 2017.0000 |
+-----+
12 rows in set (0.00 sec)

```

```

mysql>
mysql> SELECT author_fname, author_lname, AVG(released_year) FROM books GROUP BY author_lname, author_fname;
+-----+
| author_fname | author_lname | AVG(released_year) |
+-----+
| Jhumpa | Lahiri | 1999.5000 |
| Neil | Gaiman | 2006.6667 |
| Dave | Eggers | 2000.6667 |
| Michael | Chabon | 2000.0000 |
| Patti | Smith | 2010.0000 |
| Raymond | Carver | 1985.0000 |
+-----+

```

```
mysql>
```

```

mysql> INSERT INTO items(price) VALUES(7);
Query OK, 1 row affected (0.01 sec)

mysql>
mysql> INSERT INTO items(price) VALUES(7987654);
ERROR 1264 (22003): Out of range value for column 'price' at row 1
mysql>
mysql> INSERT INTO items(price) VALUES(34.88);
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO items(price) VALUES(298.9999);
Query OK, 1 row affected, 1 warning (0.00 sec)

mysql>
mysql> INSERT INTO items(price) VALUES(1.9999);
Query OK, 1 row affected, 1 warning (0.00 sec)

mysql>
mysql> SELECT * FROM items;
+-----+
| price |
+-----+
| 7.00 |
| 34.88 |
| 299.00 |
| 2.00 |
+-----+
4 rows in set (0.00 sec)

mysql>
mysql>
mysql>
mysql>
mysql> CREATE TABLE thingies (price FLOAT);
Query OK, 0 rows affected (0.02 sec)

mysql>
mysql> INSERT INTO thingies(price) VALUES (88.45);
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> SELECT * FROM thingies;
+-----+
| price |
+-----+
| 88.45 |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> INSERT INTO thingies(price) VALUES (8877.45);
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> SELECT * FROM thingies;
+-----+
| price |
+-----+
| 88.45 |
| 8877.45 |
+-----+
2 rows in set (0.00 sec)

mysql>
mysql> INSERT INTO thingies(price) VALUES (8877665544.45);
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> SELECT * FROM thingies;
+-----+
| price |
+-----+
| 88.45 |
| 8877.45 |
| 8877670000 |
+-----+
3 rows in set (0.00 sec)

mysql>
mysql>
mysql>
mysql>
mysql>
mysql> CREATE TABLE people (name VARCHAR(100), birthdate DATE, birthtime TIME, birthtdt DATETIME);
Query OK, 0 rows affected (0.02 sec)

mysql>
mysql> INSERT INTO people (name, birthdate, birthtime, birthtdt)
-> VALUES('Padma', '1983-11-11', '10:07:35', '1983-11-11 10:07:35');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO people (name, birthdate, birthtime, birthtdt)
-> VALUES('Larry', '1943-12-25', '04:10:42', '1943-12-25 04:10:42');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> SELECT * FROM people;
+-----+-----+-----+-----+
| name | birthdate | birthtime | birthtdt |
+-----+-----+-----+-----+
| Padma | 1983-11-11 | 10:07:35 | 1983-11-11 10:07:35 |
| Larry | 1943-12-25 | 04:10:42 | 1943-12-25 04:10:42 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql> SELECT name, birthdate FROM people;
+-----+-----+
| name | birthdate |
+-----+-----+
| Padma | 1983-11-11 |
| Larry | 1943-12-25 |
+-----+-----+
2 rows in set (0.00 sec)

mysql>
mysql> SELECT name, DAY(birthdate) FROM people;
+-----+-----+
| name | DAY(birthdate) |
+-----+-----+
| Padma | 11 |
| Larry | 25 |
+-----+-----+
2 rows in set (0.00 sec)

mysql>
mysql> SELECT name, birthdate, DAY(birthdate) FROM people;
+-----+-----+-----+
| name | birthdate | DAY(birthdate) |
+-----+-----+-----+
| Padma | 1983-11-11 | 11 |
| Larry | 1943-12-25 | 25 |
+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>
mysql> SELECT name, birthdate, DAYNAME(birthdate) FROM people;
+-----+-----+-----+
| name | birthdate | DAYNAME(birthdate) |
+-----+-----+-----+
| Padma | 1983-11-11 | Friday |
| Larry | 1943-12-25 | Saturday |
+-----+-----+-----+
2 rows in set (0.01 sec)

mysql>
mysql> SELECT name, birthdate, DAYOFWEEK(birthdate) FROM people;
+-----+-----+-----+
| name | birthdate | DAYOFWEEK(birthdate) |
+-----+-----+-----+
| Padma | 1983-11-11 | 6 |
| Larry | 1943-12-25 | 7 |
+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>
mysql> SELECT name, birthdate, DAYOFYEAR(birthdate) FROM people;
+-----+-----+-----+
| name | birthdate | DAYOFYEAR(birthdate) |
+-----+-----+-----+
| Padma | 1983-11-11 | 315 |
| Larry | 1943-12-25 | 359 |
+-----+-----+-----+
2 rows in set (0.00 sec)

```

```

mysql>
mysql> SELECT name, birthtime, DAYOFYEAR(birthtime) FROM people;
+-----+-----+-----+
| name | birthtime | DAYOFYEAR(birthtime) |
+-----+-----+-----+
| Padma | 10:07:35 | 98 |
| Larry | 04:10:42 | 98 |
+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>
mysql> SELECT name, birthtdt, DAYOFYEAR(birthtdt) FROM people;
+-----+-----+-----+
| name | birthtdt | DAYOFYEAR(birthtdt) |
+-----+-----+-----+
| Padma | 1983-11-11 10:07:35 | 315 |
| Larry | 1943-12-25 04:10:42 | 359 |
+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>
mysql> SELECT name, birthtdt, MONTH(birthtdt) FROM people;
+-----+-----+-----+
| name | birthtdt | MONTH(birthtdt) |
+-----+-----+-----+
| Padma | 1983-11-11 10:07:35 | 11 |
| Larry | 1943-12-25 04:10:42 | 12 |
+-----+-----+-----+
2 rows in set (0.01 sec)

mysql>
mysql> SELECT name, birthtdt, MONTHNAME(birthtdt) FROM people;
+-----+-----+-----+
| name | birthtdt | MONTHNAME(birthtdt) |
+-----+-----+-----+
| Padma | 1983-11-11 10:07:35 | November |
| Larry | 1943-12-25 04:10:42 | December |
+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>
mysql> SELECT name, birthtime, HOUR(birthtime) FROM people;
+-----+-----+-----+
| name | birthtime | HOUR(birthtime) |
+-----+-----+-----+
| Padma | 10:07:35 | 10 |
| Larry | 04:10:42 | 4 |
+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>
mysql> SELECT name, birthtime, MINUTE(birthtime) FROM people;
+-----+-----+-----+
| name | birthtime | MINUTE(birthtime) |
+-----+-----+-----+
| Padma | 10:07:35 | 7 |
| Larry | 04:10:42 | 10 |
+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>
mysql> SELECT CONCAT(MONTHNAME(birthdate), ' ', DAY(birthdate), ' ', YEAR(birthdate)) FROM people;
+-----+-----+-----+
| CONCAT(MONTHNAME(birthdate), ' ', DAY(birthdate), ' ', YEAR(birthdate)) |
+-----+-----+-----+
| November 11 1983 |
| December 25 1943 |
+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>
mysql> SELECT DATE_FORMAT(birthtdt, 'Was born on a %w') FROM people;
+-----+-----+
| DATE_FORMAT(birthtdt, 'Was born on a %w') |
+-----+-----+
| Was born on a Friday |
| Was born on a Saturday |
+-----+-----+
2 rows in set (0.00 sec)

mysql>
mysql> SELECT DATE_FORMAT(birthtdt, '%m/%d/%Y') FROM people;
+-----+-----+
| DATE_FORMAT(birthtdt, '%m/%d/%Y') |
+-----+-----+
| 11/11/1983 |
| 12/25/1943 |
+-----+-----+
2 rows in set (0.00 sec)

mysql>
mysql> SELECT DATE_FORMAT(birthtdt, '%m/%d/%Y at %h:%m') FROM people;
+-----+-----+
| DATE_FORMAT(birthtdt, '%m/%d/%Y at %h:%m') |
+-----+-----+
| 11/11/1983 at 10:11 |
| 12/25/1943 at 04:12 |
+-----+-----+
2 rows in set (0.00 sec)

mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql> SELECT * FROM people;
+-----+-----+-----+-----+
| name | birthdate | birthtime | birthtdt |
+-----+-----+-----+-----+
| Padma | 1983-11-11 | 10:07:35 | 1983-11-11 10:07:35 |
| Larry | 1943-12-25 | 04:10:42 | 1943-12-25 04:10:42 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>
mysql> SELECT DATEDIFF(NOW(), birthdate) FROM people;
+-----+-----+
| DATEDIFF(NOW(), birthdate) |
+-----+-----+
| 13297 |
| 27863 |
+-----+-----+
2 rows in set (0.01 sec)

mysql>
mysql> SELECT name, birthdate, DATEDIFF(NOW(), birthdate) FROM people;
+-----+-----+-----+
| name | birthdate | DATEDIFF(NOW(), birthdate) |
+-----+-----+-----+
| Padma | 1983-11-11 | 13297 |
| Larry | 1943-12-25 | 27863 |
+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>
mysql> SELECT birthtdt FROM people;
+-----+
| birthtdt |
+-----+
| 1983-11-11 10:07:35 |
| 1943-12-25 04:10:42 |
+-----+
2 rows in set (0.00 sec)

mysql>
mysql> SELECT birthtdt, DATE_ADD(birthtdt, INTERVAL 1 MONTH) FROM people;
+-----+-----+
| birthtdt | DATE_ADD(birthtdt, INTERVAL 1 MONTH) |
+-----+-----+
| 1983-11-11 10:07:35 | 1983-12-11 10:07:35 |
| 1943-12-25 04:10:42 | 1944-01-25 04:10:42 |
+-----+-----+
2 rows in set (0.00 sec)

mysql>
mysql> SELECT birthtdt, DATE_ADD(birthtdt, INTERVAL 10 SECOND) FROM people;
+-----+-----+
| birthtdt | DATE_ADD(birthtdt, INTERVAL 10 SECOND) |
+-----+-----+
| 1983-11-11 10:07:35 | 1983-11-11 10:07:45 |
| 1943-12-25 04:10:42 | 1943-12-25 04:10:52 |
+-----+-----+
2 rows in set (0.00 sec)

mysql>
mysql> SELECT birthtdt, DATE_ADD(birthtdt, INTERVAL 3 QUARTER) FROM people;
+-----+-----+
| birthtdt | DATE_ADD(birthtdt, INTERVAL 3 QUARTER) |
+-----+-----+
| 1983-11-11 10:07:35 | 1984-08-11 10:07:35 |
| 1943-12-25 04:10:42 | 1944-09-25 04:10:42 |
+-----+-----+

```

```

2 rows in set (0.00 sec)

mysql>
mysql> SELECT birthdt, birthdt + INTERVAL 1 MONTH FROM people;
+-----+-----+
| birthdt | birthdt + INTERVAL 1 MONTH |
+-----+-----+
| 1983-11-11 10:07:35 | 1983-12-11 10:07:35 |
| 1943-12-25 04:10:42 | 1944-01-25 04:10:42 |
+-----+-----+
2 rows in set (0.00 sec)

mysql>
mysql> SELECT birthdt, birthdt - INTERVAL 5 MONTH FROM people;
+-----+-----+
| birthdt | birthdt - INTERVAL 5 MONTH |
+-----+-----+
| 1983-11-11 10:07:35 | 1983-06-11 10:07:35 |
| 1943-12-25 04:10:42 | 1943-07-25 04:10:42 |
+-----+-----+
2 rows in set (0.00 sec)

mysql>
mysql> SELECT birthdt, birthdt + INTERVAL 15 MONTH + INTERVAL 10 HOUR FROM people;
+-----+-----+
| birthdt | birthdt + INTERVAL 15 MONTH + INTERVAL 10 HOUR |
+-----+-----+
| 1983-11-11 10:07:35 | 1985-02-11 20:07:35 |
| 1943-12-25 04:10:42 | 1945-03-25 14:10:42 |
+-----+-----+
2 rows in set (0.00 sec)

mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql> CREATE TABLE comments (
-> content VARCHAR(100),
-> created_at TIMESTAMP DEFAULT NOW()
-> );
Query OK, 0 rows affected (0.01 sec)

mysql>
mysql> INSERT INTO comments (content) VALUES('lol what a funny article');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO comments (content) VALUES('I found this offensive');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO comments (content) VALUES('Ifasfsadfsadfsad');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> SELECT * FROM comments ORDER BY created_at DESC;
+-----+-----+
| content | created_at |
+-----+-----+
| lol what a funny article | 2020-04-07 19:15:03 |
| I found this offensive | 2020-04-07 19:15:03 |
| Ifasfsadfsadfsad | 2020-04-07 19:15:03 |
+-----+-----+
3 rows in set (0.01 sec)

mysql>
mysql>
mysql> CREATE TABLE comments2 (
-> content VARCHAR(100),
-> changed_at TIMESTAMP DEFAULT NOW() ON UPDATE CURRENT_TIMESTAMP
-> );
Query OK, 0 rows affected (0.02 sec)

mysql>
mysql> INSERT INTO comments2 (content) VALUES('dasdasdasd');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO comments2 (content) VALUES('lololololo');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> INSERT INTO comments2 (content) VALUES('I LIKE CATS AND DOGS');
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> UPDATE comments2 SET content='THIS IS NOT GIBBERISH' WHERE content='dasdasdasd';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql>
mysql> SELECT * FROM comments2;
+-----+-----+
| content | changed_at |
+-----+-----+
| THIS IS NOT GIBBERISH | 2020-04-07 19:15:18 |
| lololololo | 2020-04-07 19:15:18 |
| I LIKE CATS AND DOGS | 2020-04-07 19:15:18 |
+-----+-----+
3 rows in set (0.00 sec)

mysql>
mysql> SELECT * FROM comments2 ORDER BY changed_at;
+-----+-----+
| content | changed_at |
+-----+-----+
| THIS IS NOT GIBBERISH | 2020-04-07 19:15:18 |
| lololololo | 2020-04-07 19:15:18 |
| I LIKE CATS AND DOGS | 2020-04-07 19:15:18 |
+-----+-----+
3 rows in set (0.00 sec)

mysql>
mysql>
mysql> CREATE TABLE comments2 (
-> content VARCHAR(100),
-> changed_at TIMESTAMP DEFAULT NOW() ON UPDATE NOW()
-> );
Query OK, 0 rows affected (0.02 sec)

mysql>
mysql>
mysql> SELECT * FROM comments2 ORDER BY changed_at;
+-----+-----+
| content | changed_at |
+-----+-----+
| THIS IS NOT GIBBERISH | 2020-04-07 19:15:18 |
| lololololo | 2020-04-07 19:15:18 |
| I LIKE CATS AND DOGS | 2020-04-07 19:15:18 |
+-----+-----+
3 rows in set (0.00 sec)

mysql>
mysql>
mysql> UPDATE comments2 SET content='THIS IS NOT GIBBERISH aaaaa' WHERE content='THIS IS NOT GIBBERISH';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql>
mysql>
mysql> SELECT * FROM comments2 ORDER BY changed_at;
+-----+-----+
| content | changed_at |
+-----+-----+
| lololololo | 2020-04-07 19:15:18 |
| I LIKE CATS AND DOGS | 2020-04-07 19:15:18 |
| THIS IS NOT GIBBERISH aaaaa | 2020-04-07 19:16:51 |
+-----+-----+
3 rows in set (0.00 sec)

mysql>
mysql>
mysql>
mysql>
mysql>
mysql> CREATE TABLE inventory (
-> item_name VARCHAR(100),
-> price DECIMAL(8,2),
-> quantity INT
-> );
Query OK, 0 rows affected (0.01 sec)

```

```
mysql> SELECT CURTIME();
+-----+
| CURTIME() |
+-----+
| 21:53:18   |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> SELECT CURDATE();
+-----+
|>
|> SELECT DAYOFWEEK(CURDATE());
|> SELECT DAYOFWEEK(NOW());
|> SELECT DATE_FORMAT(NOW(), '%w') + 1;
|>
|> SELECT DAYNAME(NOW());
|> SELECT DATE_FORMAT(NOW(), '%w');
|>
|> SELECT DATE_FORMAT(CURDATE(), '%m/%d/%Y');
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 '%w') + 1;

SELECT DAYNAME(NOW());
SELECT DATE_FORMAT(NOW(), '%w');

SELECT DAT' at line 5
mysql>
mysql> SELECT DATE_FORMAT(NOW(), '%M %D at %h:%i');
+-----+
| DATE_FORMAT(NOW(), '%M %D at %h:%i') |
+-----+
| April 7th at 09:53                     |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> CREATE TABLE tweets(
->     content VARCHAR(140),
->     username VARCHAR(20),
->     created_at TIMESTAMP DEFAULT NOW()
-> );
Query OK, 0 rows affected (0.01 sec)

mysql>
mysql> SELECT CURTIME();
+-----+
| CURTIME() |
+-----+
| 21:53:47   |
+-----+
1 row in set (0.00 sec)

mysql> SELECT CURDATE();
+-----+
| CURDATE() |
+-----+
| 2020-04-07 |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> SELECT DAYOFWEEK(CURDATE());
+-----+
| DAYOFWEEK(CURDATE()) |
+-----+
|                        |
+-----+
|                        |
+-----+
1 row in set (0.00 sec)

mysql> SELECT DAYOFWEEK(NOW());
+-----+
| DAYOFWEEK(NOW()) |
+-----+
|                  |
+-----+
|                  |
+-----+
1 row in set (0.00 sec)

mysql> SELECT DATE_FORMAT(NOW(), '%w') + 1;
+-----+
| DATE_FORMAT(NOW(), '%w') + 1 |
+-----+
|                               |
+-----+
|                               |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> SELECT DAYNAME(NOW());
+-----+
| DAYNAME(NOW()) |
+-----+
| Tuesday        |
+-----+
|                |
+-----+
1 row in set (0.00 sec)

mysql> SELECT DATE_FORMAT(NOW(), '%w');
+-----+
| DATE_FORMAT(NOW(), '%w') |
+-----+
| Tuesday                 |
+-----+
|                         |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> SELECT DATE_FORMAT(CURDATE(), '%m/%d/%Y');
+-----+
|>
|> SELECT DATE_FORMAT(NOW(), '%M %D at %h:%i');
|>
|>
^C
mysql> SELECT DATE_FORMAT(CURDATE(), '%m/%d/%Y');
+-----+
| DATE_FORMAT(CURDATE(), '%m/%d/%Y') |
+-----+
| 04/07/2020                          |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> SELECT DATE_FORMAT(NOW(), '%M %D at %h:%i');
+-----+
| DATE_FORMAT(NOW(), '%M %D at %h:%i') |
+-----+
| April 7th at 09:54                     |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> INSERT INTO tweets (content, username) VALUES('this is my first tweet', 'coltscat');
Query OK, 1 row affected (0.01 sec)

mysql> SELECT * FROM tweets;
+-----+-----+-----+
| content          | username | created_at |
+-----+-----+-----+
| this is my first tweet | coltscat | 2020-04-07 21:54:55 |
+-----+-----+-----+
1 row in set (0.00 sec)

mysql>
mysql> INSERT INTO tweets (content, username) VALUES('this is my second tweet', 'coltscat');
Query OK, 1 row affected (0.00 sec)

mysql> SELECT * FROM tweets;
+-----+-----+-----+
| content          | username | created_at |
+-----+-----+-----+
| this is my first tweet | coltscat | 2020-04-07 21:54:55 |
| this is my second tweet | coltscat | 2020-04-07 21:54:55 |
+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>
mysql> SELECT * FROM tweets;
+-----+-----+-----+
| content          | username | created_at |
+-----+-----+-----+
| this is my first tweet | coltscat | 2020-04-07 21:54:55 |
| this is my second tweet | coltscat | 2020-04-07 21:54:55 |
+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> SELECT title FROM books WHERE released_year = 2017;
+-----+
| title |
+-----+
| Lincoln In The Bardo |
+-----+
1 row in set (0.01 sec)

mysql>
mysql> SELECT title FROM books WHERE released_year != 2017;
+-----+
| title |
+-----+
| The Namesake |
| Norse Mythology |
| American Gods |
| Interpreter of Maladies |
| A Hologram for the King: A Novel |
| The Circle |
| The Amazing Adventures of Kavalier & Clay |
| Just Kids |
| A Heartbreaking Work of Staggering Genius |
| Coraline |
| What We Talk About When We Talk About Love: Stories |
| Where I'm Calling From: Selected Stories |
| White Noise |
| Cannery Row |
| Oblivion: Stories |
| Consider the Lobster |
| 10% Happier |
| fake_book |
+-----+
18 rows in set (0.00 sec)

mysql>
mysql> SELECT title, author_name FROM books;
+-----+
| title | author_name |
+-----+
| The Namesake | Lahiri |
| Norse Mythology | Gaiman |
| American Gods | Gaiman |
| Interpreter of Maladies | Lahiri |
| A Hologram for the King: A Novel | Eggers |
| The Circle | Eggers |
| The Amazing Adventures of Kavalier & Clay | Chabon |
| Just Kids | Smith |
| A Heartbreaking Work of Staggering Genius | Eggers |
| Coraline | Gaiman |
| What We Talk About When We Talk About Love: Stories | Carver |
| Where I'm Calling From: Selected Stories | Carver |
| White Noise | DeLillo |
| Cannery Row | Steinbeck |
| Oblivion: Stories | Foster Wallace |
| Consider the Lobster | Foster Wallace |
| 10% Happier | Harris |
| fake_book | Harris |
| Lincoln In The Bardo | Saunders |
+-----+
19 rows in set (0.00 sec)

mysql>
mysql> SELECT title, author_name FROM books WHERE author_name = 'Harris';
+-----+
| title | author_name |
+-----+
| 10% Happier | Harris |
| fake_book | Harris |
+-----+
2 rows in set (0.00 sec)

mysql>
mysql> SELECT title, author_name FROM books WHERE author_name != 'Harris';
+-----+
| title | author_name |
+-----+
| The Namesake | Lahiri |
| Norse Mythology | Gaiman |
| American Gods | Gaiman |
| Interpreter of Maladies | Lahiri |
| A Hologram for the King: A Novel | Eggers |
| The Circle | Eggers |
| The Amazing Adventures of Kavalier & Clay | Chabon |
| Just Kids | Smith |
| A Heartbreaking Work of Staggering Genius | Eggers |
| Coraline | Gaiman |
| What We Talk About When We Talk About Love: Stories | Carver |
| Where I'm Calling From: Selected Stories | Carver |
| White Noise | DeLillo |
| Cannery Row | Steinbeck |
| Oblivion: Stories | Foster Wallace |
| Consider the Lobster | Foster Wallace |
| Lincoln In The Bardo | Saunders |
+-----+
17 rows in set (0.00 sec)

mysql>
mysql>
mysql>
mysql>
mysql> SELECT title FROM books WHERE title LIKE 'W';
Empty set (0.01 sec)

mysql>
mysql> SELECT title FROM books WHERE title LIKE 'WN';
+-----+
| title |
+-----+
| What We Talk About When We Talk About Love: Stories |
| Where I'm Calling From: Selected Stories |
| White Noise |
+-----+
3 rows in set (0.00 sec)

mysql>
mysql> SELECT title FROM books WHERE title LIKE '%WN%';
+-----+
| title |
+-----+
| A Heartbreaking Work of Staggering Genius |
| What We Talk About When We Talk About Love: Stories |
| Where I'm Calling From: Selected Stories |
| White Noise |
| Cannery Row |
+-----+
5 rows in set (0.00 sec)

mysql>
mysql> SELECT title FROM books WHERE title LIKE 'WN';
+-----+
| title |
+-----+
| What We Talk About When We Talk About Love: Stories |
| Where I'm Calling From: Selected Stories |
| White Noise |
+-----+
3 rows in set (0.00 sec)

mysql>
mysql> SELECT title FROM books WHERE title NOT LIKE 'WN';
+-----+
| title |
+-----+
| The Namesake |
| Norse Mythology |
| American Gods |
| Interpreter of Maladies |
| A Hologram for the King: A Novel |
| The Circle |
| The Amazing Adventures of Kavalier & Clay |
| Just Kids |
| A Heartbreaking Work of Staggering Genius |
| Coraline |
| Cannery Row |
| Oblivion: Stories |
| Consider the Lobster |
| 10% Happier |
| fake_book |
| Lincoln In The Bardo |
+-----+
16 rows in set (0.00 sec)

mysql>
mysql>
mysql>
mysql>
mysql> SELECT title, released_year FROM books ORDER BY released_year;
+-----+
| title | released_year |
+-----+
| Cannery Row | 1945 |
| What We Talk About When We Talk About Love: Stories | 1981 |
| White Noise | 1985 |
| Where I'm Calling From: Selected Stories | 1989 |
+-----+
```

Interpreter of Maladies	1996
The Amazing Adventures of Kavalier & Clay	2000
American Gods	2001
A Heartbreaking Work of Staggering Genius	2001
fake_book	2001
The Namesake	2003
Coraline	2003
Oblivion: Stories	2004
Consider the Lobster	2005
Just Kids	2010
A Hologram for the King: A Novel	2012
The Circle	2013
10% Happier	2014
Norse Mythology	2016
Lincoln In The Bardo	2017

19 rows in set (0.00 sec)

```
mysql>
mysql> SELECT title, released_year FROM books
-> WHERE released_year > 2000 ORDER BY released_year;
```

title	released_year
American Gods	2001
A Heartbreaking Work of Staggering Genius	2001
fake_book	2001
The Namesake	2003
Coraline	2003
Oblivion: Stories	2004
Consider the Lobster	2005
Just Kids	2010
A Hologram for the King: A Novel	2012
The Circle	2013
10% Happier	2014
Norse Mythology	2016
Lincoln In The Bardo	2017

13 rows in set (0.00 sec)

```
mysql>
mysql> SELECT title, released_year FROM books
-> WHERE released_year >= 2000 ORDER BY released_year;
```

title	released_year
The Amazing Adventures of Kavalier & Clay	2000
American Gods	2001
A Heartbreaking Work of Staggering Genius	2001
fake_book	2001
The Namesake	2003
Coraline	2003
Oblivion: Stories	2004
Consider the Lobster	2005
Just Kids	2010
A Hologram for the King: A Novel	2012
The Circle	2013
10% Happier	2014
Norse Mythology	2016
Lincoln In The Bardo	2017

14 rows in set (0.00 sec)

```
mysql>
mysql> SELECT title, stock_quantity FROM books;
```

title	stock_quantity
The Namesake	32
Norse Mythology	43
American Gods	12
Interpreter of Maladies	97
A Hologram for the King: A Novel	154
The Circle	26
The Amazing Adventures of Kavalier & Clay	68
Just Kids	55
A Heartbreaking Work of Staggering Genius	104
Coraline	100
What We Talk About When We Talk About Love: Stories	23
Where I'm Calling From: Selected Stories	12
White Noise	49
Cannery Row	95
Oblivion: Stories	172
Consider the Lobster	92
10% Happier	29
fake_book	287
Lincoln In The Bardo	1000

19 rows in set (0.00 sec)

```
mysql>
mysql> SELECT title, stock_quantity FROM books WHERE stock_quantity >= 100;
```

title	stock_quantity
A Hologram for the King: A Novel	154
A Heartbreaking Work of Staggering Genius	104
Coraline	100
Oblivion: Stories	172
fake_book	287
Lincoln In The Bardo	1000

6 rows in set (0.00 sec)

```
mysql>
mysql> SELECT 99 > 1;
```

99 > 1
1

1 row in set (0.00 sec)

```
mysql>
mysql> SELECT 99 > 567;
```

99 > 567
0

1 row in set (0.00 sec)

```
mysql>
mysql> 100 > 5
-> -- true
->
-> -15 > 15
-> -- false
->
-> 9 > -10
-> -- true
->
-> 1 > 1
-> -- false
->
-> 'a' > 'b'
-> -- false
->
-> 'A' > 'a'
-> -- false
->
-> 'A' >= 'a'
-> -- true
->
-> SELECT title, author_name FROM books WHERE author_name = 'Eggers';
```

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 '100 > 5

-15 > 15

9 > -10

1 > 1

'a' > 'b'

'A' > 'a'

```
'A' >= 'a' at line 1
mysql>
mysql> SELECT title, author_name FROM books WHERE author_name = 'eggers';
```

title	author_name
A Hologram for the King: A Novel	Eggers
The Circle	Eggers
A Heartbreaking Work of Staggering Genius	Eggers

3 rows in set (0.00 sec)


```
mysql>
mysql> SELECT title, author_lname FROM books WHERE author_lname = 'eGgers';
+-----+-----+
| title | author_lname |
+-----+-----+
| A Hologram for the King: A Novel | Eggers |
| The Circle | Eggers |
| A Heartbreaking Work of Staggering Genius | Eggers |
+-----+-----+
3 rows in set (0.00 sec)

mysql>
mysql>
mysql> SELECT title, author_lname FROM books WHERE author_lname = 'Eggers';
+-----+-----+
| title | author_lname |
+-----+-----+
| A Hologram for the King: A Novel | Eggers |
| The Circle | Eggers |
| A Heartbreaking Work of Staggering Genius | Eggers |
+-----+-----+
3 rows in set (0.00 sec)

mysql>
mysql>
mysql>
mysql> SELECT title, released_year FROM books;
+-----+-----+
| title | released_year |
+-----+-----+
| The Namesake | 2003 |
| Norse Mythology | 2016 |
| American Gods | 2001 |
| Interpreter of Maladies | 1996 |
| A Hologram for the King: A Novel | 2012 |
| The Circle | 2013 |
| The Amazing Adventures of Kavalier & Clay | 2000 |
| Just Kids | 2010 |
| A Heartbreaking Work of Staggering Genius | 2001 |
| Coraline | 2003 |
| What We Talk About When We Talk About Love: Stories | 1981 |
| Where I'm Calling From: Selected Stories | 1989 |
| White Noise | 1985 |
| Cannery Row | 1945 |
| Oblivion: Stories | 2004 |
| Consider the Lobster | 2005 |
| 10% Happier | 2014 |
| fake_book | 2001 |
| Lincoln In The Bardo | 2017 |
+-----+-----+
19 rows in set (0.00 sec)

mysql>
mysql> SELECT title, released_year FROM books
-> WHERE released_year < 2000;
+-----+-----+
| title | released_year |
+-----+-----+
| Interpreter of Maladies | 1996 |
| What We Talk About When We Talk About Love: Stories | 1981 |
| Where I'm Calling From: Selected Stories | 1989 |
| White Noise | 1985 |
| Cannery Row | 1945 |
+-----+-----+
5 rows in set (0.00 sec)

mysql>
mysql> SELECT title, released_year FROM books
-> WHERE released_year <= 2000;
+-----+-----+
| title | released_year |
+-----+-----+
| Interpreter of Maladies | 1996 |
| The Amazing Adventures of Kavalier & Clay | 2000 |
| What We Talk About When We Talk About Love: Stories | 1981 |
| Where I'm Calling From: Selected Stories | 1989 |
| White Noise | 1985 |
| Cannery Row | 1945 |
+-----+-----+
6 rows in set (0.00 sec)

mysql>
mysql> SELECT 3 < -10;
+-----+
| 3 < -10 |
+-----+
| 0 |
+-----+
1 row in set (0.01 sec)

mysql>
mysql> SELECT -10 < -9;
+-----+
| -10 < -9 |
+-----+
| 1 |
+-----+
1 row in set (0.00 sec)

mysql> SELECT 42 <= 42;
+-----+
| 42 <= 42 |
+-----+
| 1 |
+-----+
1 row in set (0.00 sec)

mysql> SELECT 'h' < 'p';
+-----+
| 'h' < 'p' |
+-----+
| 1 |
+-----+
1 row in set (0.00 sec)

mysql> SELECT 'Q' <= 'q';
+-----+
| 'Q' <= 'q' |
+-----+
| 1 |
+-----+
1 row in set (0.00 sec)

mysql>
mysql>
mysql>
mysql> SELECT title, author_lname, released_year FROM books
-> WHERE author_lname='Eggers';
+-----+-----+-----+
| title | author_lname | released_year |
+-----+-----+-----+
| A Hologram for the King: A Novel | Eggers | 2012 |
| The Circle | Eggers | 2013 |
| A Heartbreaking Work of Staggering Genius | Eggers | 2001 |
+-----+-----+-----+
3 rows in set (0.00 sec)

mysql>
mysql> SELECT title, author_lname, released_year FROM books
-> WHERE released_year > 2010;
+-----+-----+-----+
| title | author_lname | released_year |
+-----+-----+-----+
| Norse Mythology | Gaiman | 2016 |
| A Hologram for the King: A Novel | Eggers | 2012 |
| The Circle | Eggers | 2013 |
| 10% Happier | Harris | 2014 |
| Lincoln In The Bardo | Saunders | 2017 |
+-----+-----+-----+
5 rows in set (0.00 sec)

mysql>
mysql> SELECT
-> title,
-> author_lname,
-> released_year FROM books
-> WHERE author_lname='Eggers'
-> AND released_year > 2010;
+-----+-----+-----+
| title | author_lname | released_year |
+-----+-----+-----+
| A Hologram for the King: A Novel | Eggers | 2012 |
| The Circle | Eggers | 2013 |
+-----+-----+-----+
2 rows in set (0.01 sec)

mysql>
mysql> SELECT 1 < 5 && 7 = 9;
+-----+
| 1 < 5 && 7 = 9 |
+-----+
| 0 |
+-----+
1 row in set (0.00 sec)
```

```

|----- 0 |-----
1 row in set, 1 warning (0.00 sec)

mysql> SELECT -10 > -20 && 0 <= 0;
|-----
| -10 > -20 && 0 <= 0 |-----
|-----
| 1 |-----
1 row in set, 1 warning (0.00 sec)

mysql> SELECT -40 <= 0 AND 10 > 40;
|-----
| -40 <= 0 AND 10 > 40 |-----
|-----
| 0 |-----
1 row in set (0.00 sec)

mysql> SELECT 54 <= 54 && 'a' = 'A';
|-----
| 54 <= 54 && 'a' = 'A' |-----
|-----
| 1 |-----
1 row in set, 1 warning (0.00 sec)

mysql> SELECT *
-> FROM books
-> WHERE author_lname='Eggers'
-> AND released_year > 2010
-> AND title LIKE '%novel%';
| book_id | title | author_fname | author_lname | released_year | stock_quantity | pages |
|-----|-----|-----|-----|-----|-----|-----|
| 5 | A Hologram for the King: A Novel | Dave | Eggers | 2012 | 154 | 352 |
1 row in set (0.00 sec)

mysql>
mysql>
mysql>
mysql>
mysql> SELECT
-> title,
-> author_lname,
-> released_year
-> FROM books
-> WHERE author_lname='Eggers' || released_year > 2010;
| title | author_lname | released_year |
|-----|-----|-----|
| Norse Mythology | Gaiman | 2016 |
| A Hologram for the King: A Novel | Eggers | 2012 |
| The Circle | Eggers | 2013 |
| A Heartbreaking Work of Staggering Genius | Eggers | 2001 |
| 10% Happier | Harris | 2014 |
| Lincoln In The Bardo | Saunders | 2017 |
6 rows in set, 1 warning (0.00 sec)

mysql>
mysql>
mysql> SELECT 40 <= 100 || -2 > 0;
|-----
| 40 <= 100 || -2 > 0 |-----
|-----
| 1 |-----
1 row in set, 1 warning (0.00 sec)

mysql> SELECT 10 > 5 || 5 = 5;
|-----
| 10 > 5 || 5 = 5 |-----
|-----
| 1 |-----
1 row in set, 1 warning (0.00 sec)

mysql> SELECT 'a' = 5 || 3000 > 2000;
|-----
| 'a' = 5 || 3000 > 2000 |-----
|-----
| 1 |-----
1 row in set, 2 warnings (0.00 sec)

mysql> SELECT title,
-> author_lname,
-> released_year,
-> stock_quantity
-> FROM books
-> WHERE author_lname = 'Eggers'
-> || released_year > 2010
-> OR stock_quantity > 100;
| title | author_lname | released_year | stock_quantity |
|-----|-----|-----|-----|
| Norse Mythology | Gaiman | 2016 | 43 |
| A Hologram for the King: A Novel | Eggers | 2012 | 154 |
| The Circle | Eggers | 2013 | 26 |
| A Heartbreaking Work of Staggering Genius | Eggers | 2001 | 104 |
| Oblivion: Stories | Foster Wallace | 2004 | 172 |
| 10% Happier | Harris | 2014 | 29 |
| fake_book | Harris | 2001 | 287 |
| Lincoln In The Bardo | Saunders | 2017 | 1000 |
8 rows in set, 1 warning (0.00 sec)

mysql>
mysql>
mysql> SELECT title, released_year FROM books WHERE released_year >= 2004 && released_year <= 2015;
| title | released_year |
|-----|-----|
| A Hologram for the King: A Novel | 2012 |
| The Circle | 2013 |
| Just Kids | 2010 |
| Oblivion: Stories | 2004 |
| Consider the Lobster | 2005 |
| 10% Happier | 2014 |
6 rows in set, 1 warning (0.00 sec)

mysql>
mysql> SELECT title, released_year FROM books
-> WHERE released_year BETWEEN 2004 AND 2015;
| title | released_year |
|-----|-----|
| A Hologram for the King: A Novel | 2012 |
| The Circle | 2013 |
| Just Kids | 2010 |
| Oblivion: Stories | 2004 |
| Consider the Lobster | 2005 |
| 10% Happier | 2014 |
6 rows in set (0.00 sec)

mysql>
mysql> SELECT title, released_year FROM books
-> WHERE released_year NOT BETWEEN 2004 AND 2015;
| title | released_year |
|-----|-----|
| The Namesake | 2003 |
| Norse Mythology | 2016 |
| American Gods | 2001 |
| Interpreter of Maladies | 1996 |
| The Amazing Adventures of Kavalier & Clay | 2000 |
| A Heartbreaking Work of Staggering Genius | 2001 |
| Coraline | 2003 |
| What We Talk About When We Talk About Love: Stories | 1981 |
| Where I'm Calling From: Selected Stories | 1989 |
| White Noise | 1985 |
| Cannery Row | 1945 |
| fake_book | 2001 |
| Lincoln In The Bardo | 2017 |
13 rows in set (0.00 sec)

mysql>
mysql> SELECT CAST('2017-05-02' AS DATETIME);
|-----
| CAST('2017-05-02' AS DATETIME) |-----
|-----
| 2017-05-02 00:00:00 |-----
1 row in set (0.00 sec)

mysql>

```

```
mysql> show databases;
+-----+
| Database |
+-----+
| book_shop |
| cat_app |
| information_schema |
| mysql |
| performance_schema |
| shirts_db |
| soap_store |
| sys |
+-----+
8 rows in set (0.02 sec)

mysql>
mysql> use new_testing_db;
ERROR 1049 (42000): Unknown database 'new_testing_db'
mysql>
mysql> SELECT name, birthdt FROM people WHERE birthdt BETWEEN '1980-01-01' AND '2000-01-01';
+-----+
| name | birthdt |
+-----+
| Padma | 1983-11-11 10:07:35 |
+-----+
1 row in set (0.00 sec)

mysql>
mysql> SELECT
  -> name,
  -> birthdt
  -> FROM people
  -> WHERE
  -> birthdt BETWEEN CAST('1980-01-01' AS DATETIME)
  -> AND CAST('2000-01-01' AS DATETIME);
+-----+
| name | birthdt |
+-----+
| Padma | 1983-11-11 10:07:35 |
+-----+
1 row in set (0.00 sec)

mysql>
mysql>
mysql>
mysql>
mysql> show databases();
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 '()' at line 1
mysql> use book_shop;
Database changed
mysql>
mysql> SELECT
  -> title,
  -> author_lname
  -> FROM books
  -> WHERE author_lname='Carver' OR
  -> author_lname='Lahiri' OR
  -> author_lname='Smith';
+-----+
| title | author_lname |
+-----+
| The Namesake | Lahiri |
| Interpreter of Maladies | Lahiri |
| Just Kids | Smith |
| What We Talk About When We Talk About Love: Stories | Carver |
| Where I'm Calling From: Selected Stories | Carver |
+-----+
5 rows in set (0.00 sec)

mysql>
mysql> SELECT title, author_lname FROM books
  -> WHERE author_lname IN ('Carver', 'Lahiri', 'Smith');
+-----+
| title | author_lname |
+-----+
| The Namesake | Lahiri |
| Interpreter of Maladies | Lahiri |
| Just Kids | Smith |
| What We Talk About When We Talk About Love: Stories | Carver |
| Where I'm Calling From: Selected Stories | Carver |
+-----+
5 rows in set (0.00 sec)

mysql>
mysql> SELECT title, released_year FROM books
  -> WHERE released_year IN (2017, 1985);
+-----+
| title | released_year |
+-----+
| White Noise | 1985 |
| Lincoln In The Bardo | 2017 |
+-----+
2 rows in set (0.00 sec)

mysql>
mysql> SELECT title, released_year FROM books
  -> WHERE released_year != 2000 AND
  -> released_year != 2002 AND
  -> released_year != 2004 AND
  -> released_year != 2006 AND
  -> released_year != 2008 AND
  -> released_year != 2010 AND
  -> released_year != 2012 AND
  -> released_year != 2014 AND
  -> released_year != 2016;
+-----+
| title | released_year |
+-----+
| The Namesake | 2003 |
| American Gods | 2001 |
| Interpreter of Maladies | 1996 |
| The Circle | 2013 |
| A Heartbreaking Work of Staggering Genius | 2001 |
| Coraline | 2003 |
| What We Talk About When We Talk About Love: Stories | 1981 |
| Where I'm Calling From: Selected Stories | 1989 |
| White Noise | 1985 |
| Cannery Row | 1945 |
| Consider the Lobster | 2005 |
| fake_book | 2001 |
| Lincoln In The Bardo | 2017 |
+-----+
13 rows in set (0.00 sec)

mysql>
mysql> SELECT title, released_year FROM books
  -> WHERE released_year NOT IN
  -> (2000,2002,2004,2006,2008,2010,2012,2014,2016);
+-----+
| title | released_year |
+-----+
| The Namesake | 2003 |
| American Gods | 2001 |
| Interpreter of Maladies | 1996 |
| The Circle | 2013 |
| A Heartbreaking Work of Staggering Genius | 2001 |
| Coraline | 2003 |
| What We Talk About When We Talk About Love: Stories | 1981 |
| Where I'm Calling From: Selected Stories | 1989 |
| White Noise | 1985 |
| Cannery Row | 1945 |
| Consider the Lobster | 2005 |
| fake_book | 2001 |
| Lincoln In The Bardo | 2017 |
+-----+
13 rows in set (0.00 sec)

mysql>
mysql> SELECT title, released_year FROM books
  -> WHERE released_year >= 2000
  -> AND released_year NOT IN
  -> (2000,2002,2004,2006,2008,2010,2012,2014,2016);
+-----+
| title | released_year |
+-----+
| The Namesake | 2003 |
| American Gods | 2001 |
| The Circle | 2013 |
| A Heartbreaking Work of Staggering Genius | 2001 |
| Coraline | 2003 |
| Consider the Lobster | 2005 |
| fake_book | 2001 |
| Lincoln In The Bardo | 2017 |
+-----+
8 rows in set (0.00 sec)

mysql>
mysql> SELECT title, released_year FROM books
  -> WHERE released_year >= 2000 AND
  -> released_year % 2 != 0;
+-----+
| title | released_year |
+-----+

```

The Namesake	2003
American Gods	2001
The Circle	2013
A Heartbreaking Work of Staggering Genius	2001
Coraline	2003
Consider the Lobster	2005
fake_book	2001
Lincoln In The Bardo	2017

8 rows in set (0.00 sec)

```
mysql>
mysql> SELECT title, released_year FROM books
-> WHERE released_year >= 2000 AND
-> released_year % 2 != 0 ORDER BY released_year;
```

title	released_year
American Gods	2001
A Heartbreaking Work of Staggering Genius	2001
fake_book	2001
The Namesake	2003
Coraline	2003
Consider the Lobster	2005
The Circle	2013
Lincoln In The Bardo	2017

8 rows in set (0.00 sec)

```
mysql>
mysql>
mysql> show database();
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 'database()' at line 1
mysql> show databases();
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 '()' at line 1
mysql> show database();
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 'database()' at line 1
mysql>
mysql> show databases;
```

Database
book_shop
cat_app
information_schema
mysql
performance_schema
shirts_db
soap_store
sys

8 rows in set (0.00 sec)

```
mysql> show database;
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 'database' at line 1
```

```
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql> SELECT title, released_year,
-> CASE
-> WHEN released_year >= 2000 THEN 'Modern Lit'
-> ELSE '20th Century Lit'
-> END AS GENRE
-> FROM books;
```

title	released_year	GENRE
The Namesake	2003	Modern Lit
Norse Mythology	2016	Modern Lit
American Gods	2001	Modern Lit
Interpreter of Maladies	1996	20th Century Lit
A Hologram for the King: A Novel	2012	Modern Lit
The Circle	2013	Modern Lit
The Amazing Adventures of Kavalier & Clay	2000	Modern Lit
Just Kids	2010	Modern Lit
A Heartbreaking Work of Staggering Genius	2001	Modern Lit
Coraline	2003	Modern Lit
What We Talk About When We Talk About Love: Stories	1981	20th Century Lit
Where I'm Calling From: Selected Stories	1989	20th Century Lit
White Noise	1985	20th Century Lit
Cannery Row	1945	20th Century Lit
Oblivion: Stories	2004	Modern Lit
Consider the Lobster	2005	Modern Lit
10% Happier	2014	Modern Lit
fake_book	2001	Modern Lit
Lincoln In The Bardo	2017	Modern Lit

19 rows in set (0.00 sec)

```
mysql>
mysql> SELECT title, stock_quantity,
-> CASE
-> WHEN stock_quantity BETWEEN 0 AND 50 THEN '*'
-> WHEN stock_quantity BETWEEN 51 AND 100 THEN '**'
-> ELSE '***'
-> END AS STOCK
-> FROM books;
```

title	stock_quantity	STOCK
The Namesake	32	*
Norse Mythology	43	*
American Gods	12	*
Interpreter of Maladies	97	**
A Hologram for the King: A Novel	154	***
The Circle	26	*
The Amazing Adventures of Kavalier & Clay	68	**
Just Kids	55	**
A Heartbreaking Work of Staggering Genius	104	***
Coraline	100	**
What We Talk About When We Talk About Love: Stories	23	*
Where I'm Calling From: Selected Stories	12	*
White Noise	49	*
Cannery Row	95	**
Oblivion: Stories	172	***
Consider the Lobster	92	**
10% Happier	29	*
fake_book	287	***
Lincoln In The Bardo	1000	***

19 rows in set (0.00 sec)

```
mysql>
mysql> SELECT title,
-> CASE
-> WHEN stock_quantity BETWEEN 0 AND 50 THEN '*'
-> WHEN stock_quantity BETWEEN 51 AND 100 THEN '**'
-> ELSE '***'
-> END AS STOCK
-> FROM books;
```

title	STOCK
The Namesake	*
Norse Mythology	*
American Gods	*
Interpreter of Maladies	**
A Hologram for the King: A Novel	***
The Circle	*
The Amazing Adventures of Kavalier & Clay	**
Just Kids	**
A Heartbreaking Work of Staggering Genius	***
Coraline	**
What We Talk About When We Talk About Love: Stories	*
Where I'm Calling From: Selected Stories	*
White Noise	*
Cannery Row	**
Oblivion: Stories	***
Consider the Lobster	**
10% Happier	*
fake_book	***
Lincoln In The Bardo	***

19 rows in set (0.00 sec)

```
mysql>
mysql> SELECT title, stock_quantity,
-> CASE
-> WHEN stock_quantity BETWEEN 0 AND 50 THEN '*'
-> WHEN stock_quantity BETWEEN 51 AND 100 THEN '**'
-> WHEN stock_quantity BETWEEN 101 AND 150 THEN '***'
-> ELSE '****'
-> END AS STOCK
-> FROM books;
```

title	stock_quantity	STOCK
The Namesake	32	*
Norse Mythology	43	*

American Gods	12	*
Interpreter of Maladies	97	**
A Hologram for the King: A Novel	154	***
The Circle	26	*
The Amazing Adventures of Kavalier & Clay	68	**
Just Kids	55	**
A Heartbreaking Work of Staggering Genius	184	***
Coraline	100	**
What We Talk About When We Talk About Love: Stories	23	*
Where I'm Calling From: Selected Stories	12	*
White Noise	49	*
Cannery Row	95	**
Oblivion: Stories	172	***
Consider the Lobster	92	**
10% Happier	29	*
fake_book	287	***
Lincoln In The Bardo	1000	***

19 rows in set (0.00 sec)

```
mysql>
mysql> SELECT title, stock_quantity,
-> CASE
-> WHEN stock_quantity <= 50 THEN '*'
-> WHEN stock_quantity <= 100 THEN '**'
-> ELSE '***'
-> END AS STOCK
-> FROM books;
```

title	stock_quantity	STOCK
The Namesake	32	*
Norse Mythology	43	*
American Gods	12	*
Interpreter of Maladies	97	**
A Hologram for the King: A Novel	154	***
The Circle	26	*
The Amazing Adventures of Kavalier & Clay	68	**
Just Kids	55	**
A Heartbreaking Work of Staggering Genius	184	***
Coraline	100	**
What We Talk About When We Talk About Love: Stories	23	*
Where I'm Calling From: Selected Stories	12	*
White Noise	49	*
Cannery Row	95	**
Oblivion: Stories	172	***
Consider the Lobster	92	**
10% Happier	29	*
fake_book	287	***
Lincoln In The Bardo	1000	***

19 rows in set (0.00 sec)

```
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql> SELECT 10 != 10;
```

10 != 10
0

1 row in set (0.00 sec)

```
mysql> SELECT 15 > 14 && 99 - 5 <= 94;
```

15 > 14 && 99 - 5 <= 94
1

1 row in set, 1 warning (0.00 sec)

```
mysql> SELECT 1 IN (5,3) || 9 BETWEEN 8 AND 10;
```

1 IN (5,3) 9 BETWEEN 8 AND 10
1

1 row in set, 1 warning (0.00 sec)

```
mysql> SELECT title, released_year FROM books WHERE released_year < 1980;
```

title	released_year
Cannery Row	1945

1 row in set (0.00 sec)

```
mysql>
mysql> SELECT title, author_lname FROM books WHERE author_lname='Eggers' OR author_lname='Chabon';
```

title	author_lname
A Hologram for the King: A Novel	Eggers
The Circle	Eggers
The Amazing Adventures of Kavalier & Clay	Chabon
A Heartbreaking Work of Staggering Genius	Eggers

4 rows in set (0.00 sec)

```
mysql>
mysql> SELECT title, author_lname FROM books WHERE author_lname IN ('Eggers','Chabon');
```

title	author_lname
A Hologram for the King: A Novel	Eggers
The Circle	Eggers
The Amazing Adventures of Kavalier & Clay	Chabon
A Heartbreaking Work of Staggering Genius	Eggers

4 rows in set (0.00 sec)

```
mysql>
mysql> SELECT title, author_lname, released_year FROM books WHERE author_lname = 'Lahiri' && released_year > 2000;
```

title	author_lname	released_year
The Namesake	Lahiri	2003

1 row in set, 1 warning (0.00 sec)

```
mysql>
mysql> SELECT title, pages FROM books WHERE pages >= 100 && pages <=200;
```

title	pages
Interpreter of Maladies	198
What We Talk About When We Talk About Love: Stories	176
Cannery Row	161

3 rows in set, 1 warning (0.00 sec)

```
mysql>
mysql> SELECT title, pages FROM books WHERE pages BETWEEN 100 AND 200;
```

title	pages
Interpreter of Maladies	198
What We Talk About When We Talk About Love: Stories	176
Cannery Row	161

3 rows in set (0.00 sec)

```
mysql>
mysql> SELECT
-> title,
-> author_lname
-> FROM books
-> WHERE
-> author_lname LIKE 'C%' OR
-> author_lname LIKE 'S%';
```

title	author_lname
The Amazing Adventures of Kavalier & Clay	Chabon
Just Kids	Smith
What We Talk About When We Talk About Love: Stories	Carver
Where I'm Calling From: Selected Stories	Carver
Cannery Row	Steinbeck
Lincoln In The Bardo	Saunders

6 rows in set (0.00 sec)

```
mysql>
mysql> SELECT
-> title,
-> author_lname
-> FROM books
-> WHERE
-> SUBSTR(author_lname,1,1) = 'C' OR
-> SUBSTR(author_lname,1,1) = 'S';
```

title	author_name
The Amazing Adventures of Kavalier & Clay	Chabon
Just Kids	Smith
What We Talk About When We Talk About Love: Stories	Carver
Where I'm Calling From: Selected Stories	Carver
Cannery Row	Steinbeck
Lincoln In The Bardo	Saunders

6 rows in set (0.01 sec)

```
mysql>
mysql> SELECT title, author_name FROM books
-> WHERE SUBSTR(author_name,1,1) IN ('C', 'S');
```

title	author_name
The Amazing Adventures of Kavalier & Clay	Chabon
Just Kids	Smith
What We Talk About When We Talk About Love: Stories	Carver
Where I'm Calling From: Selected Stories	Carver
Cannery Row	Steinbeck
Lincoln In The Bardo	Saunders

6 rows in set (0.00 sec)

```
mysql>
mysql> SELECT
-> title,
-> author_name,
-> CASE
-> WHEN title LIKE '%stories%' THEN 'Short Stories'
-> WHEN title = 'Just Kids' OR title = 'A Heartbreaking Work of Staggering Genius' THEN 'Memoir'
-> ELSE 'Novel'
-> END AS TYPE
-> FROM books;
```

title	author_name	TYPE
The Namesake	Lahiri	Novel
Norse Mythology	Gaiman	Novel
American Gods	Gaiman	Novel
Interpreter of Maladies	Lahiri	Novel
A Hologram for the King: A Novel	Eggers	Novel
The Circle	Eggers	Novel
The Amazing Adventures of Kavalier & Clay	Chabon	Novel
Just Kids	Smith	Memoir
A Heartbreaking Work of Staggering Genius	Eggers	Memoir
Coraline	Gaiman	Novel
What We Talk About When We Talk About Love: Stories	Carver	Short Stories
Where I'm Calling From: Selected Stories	Carver	Short Stories
White Noise	DeLillo	Novel
Cannery Row	Steinbeck	Novel
Oblivion: Stories	Foster Wallace	Short Stories
Consider the Lobster	Foster Wallace	Novel
10% Happier	Harris	Novel
fake_book	Harris	Novel
Lincoln In The Bardo	Saunders	Novel

19 rows in set (0.00 sec)

```
mysql>
mysql> SELECT author_fname, author_name,
-> CASE
-> WHEN COUNT(*) = 1 THEN '1 book'
-> ELSE CONCAT(COUNT(*), ' books')
-> END AS COUNT
-> FROM books
-> GROUP BY author_name, author_fname;
```

author_fname	author_name	COUNT
Jhumpa	Lahiri	2 books
Neil	Gaiman	3 books
Dave	Eggers	3 books
Michael	Chabon	1 book
Patti	Smith	1 book
Raymond	Carver	2 books
Don	DeLillo	1 book
John	Steinbeck	1 book
David	Foster Wallace	2 books
Dan	Harris	1 book
Freida	Harris	1 book
George	Saunders	1 book

12 rows in set (0.00 sec)

```
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
```