

HOP08 – Screenshots Only

1 CREATING AND DELETING A DATABASE

```
mysql> USE DATABASE classicmodels;
ERROR 1049 (42000): Unknown database 'DATABASE'
mysql> USE classicmodels;
Database changed
mysql> ^C
mysql> CREATE SCHEMA test;
Query OK, 1 row affected (0.00 sec)

mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| classicmodels |
| mysql |
| performance_schema |
| sys |
| test |
+-----+
6 rows in set (0.00 sec)
```

Figure 1

```
mysql> DROP SCHEMA test;
Query OK, 0 rows affected (0.00 sec)

mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| classicmodels |
| mysql |
| performance_schema |
| sys |
+-----+
5 rows in set (0.00 sec)
```

Figure 2

```
mysql> CREATE SCHEMA zoo;
Query OK, 1 row affected (0.00 sec)

mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| classicmodels |
| mysql |
| performance_schema |
| sys |
| zoo |
+-----+
6 rows in set (0.00 sec)
```

Figure 3

2 CREATING AND DELETING A TABLE

```
mysql> CREATE TABLE pet (name VARCHAR(20), owner VARCHAR(20), species VARCHAR(20), sex CHAR(1), birth DATE, death DATE);
Query OK, 0 rows affected (0.06 sec)

mysql> SHOW TABLES;
+-----+
| Tables_in_classicmodels |
+-----+
| customers               |
| employees               |
| offices                 |
| orderdetails            |
| orders                  |
| payments                |
| pet                     |
| productlines            |
| products                |
+-----+
9 rows in set (0.00 sec)

mysql> DESCRIBE pet;
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| name  | varchar(20) | YES  |     | NULL    |       |
| owner | varchar(20) | YES  |     | NULL    |       |
| species | varchar(20) | YES  |     | NULL    |       |
| sex   | char(1)    | YES  |     | NULL    |       |
| birth | date       | YES  |     | NULL    |       |
| death | date       | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)

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

Figure 4

3 INSERTING DATA INTO A TABLE

```
ERROR 1054 (42S22): Unknown column '2007' in 'field list'
mysql> INSERT INTO pet VALUES('Papito', 'Clark', 'Chihuahua', 'm', '2007-09-30', NULL);
Query OK, 1 row affected (0.01 sec)

mysql> SELECT * FROM pet;
+-----+-----+-----+-----+-----+-----+
| name  | owner | species | sex | birth      | death |
+-----+-----+-----+-----+-----+-----+
| Papito | Clark | Chihuahua | m   | 2007-09-30 | NULL  |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> SELECT * FROM pet WHERE name = 'Papito';
+-----+-----+-----+-----+-----+-----+
| name  | owner | species | sex | birth      | death |
+-----+-----+-----+-----+-----+-----+
| Papito | Clark | Chihuahua | m   | 2007-09-30 | NULL  |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

Figure 5

4 UPDATING DATA

```
mysql> UPDATE pet SET species = 'dog' WHERE name = 'Papito';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> SELECT * FROM pet;
+-----+-----+-----+-----+-----+-----+
| name   | owner | species | sex  | birth      | death |
+-----+-----+-----+-----+-----+-----+
| Papito | Clark | dog     | m    | 2007-09-30 | NULL  |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

Figure 6

5 DELETING DATA

```
mysql> SELECT * FROM pet;
+-----+-----+-----+-----+-----+-----+
| name   | owner | species | sex  | birth      | death |
+-----+-----+-----+-----+-----+-----+
| Papito | Clark | dog     | m    | 2007-09-30 | NULL  |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> INSERT INTO pet VALUES('Meowser','Jason','cat','f','2001-01-22',NULL);
Query OK, 1 row affected (0.03 sec)

mysql> INSERT INTO pet VALUES('Dolly','Jake','sheep','f','1990-04-15',NULL);
Query OK, 1 row affected (0.01 sec)

mysql> SELECT * FROM pet;
+-----+-----+-----+-----+-----+-----+
| name   | owner | species | sex  | birth      | death |
+-----+-----+-----+-----+-----+-----+
| Papito | Clark | dog     | m    | 2007-09-30 | NULL  |
| Meowser | Jason | cat     | f    | 2001-01-22 | NULL  |
| Dolly  | Jake  | sheep   | f    | 1990-04-15 | NULL  |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> INSERT INTO pet VALUES('Meowser','Jason','cat','f','2001-01-22',NULL);
Query OK, 1 row affected (0.02 sec)

mysql> DELETE FROM pet WHERE name = 'Meowser';
ERROR 1054 (42S22): Unknown column 'Meowser' in 'where clause'
mysql> DELETE FROM pet WHERE name = 'Meowser';
Query OK, 2 rows affected (0.01 sec)
```

Figure 7

```
mysql> SELECT * FROM pet;
+-----+-----+-----+-----+-----+-----+
| name   | owner | species | sex  | birth      | death |
+-----+-----+-----+-----+-----+-----+
| Papito | Clark | dog      | m    | 2007-09-30 | NULL   |
| Dolly  | Jake  | sheep    | f    | 1990-04-15 | NULL   |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.01 sec)
```

Figure 8

6 BUILD A NEW DATABASE AND TABLES WITH PRIMARY AND FOREIGN KEYS

```
mysql> CREATE SCHEMA donut_shop
-> ;
Query OK, 1 row affected (0.00 sec)

mysql> USE donut_shop;
Database changed
mysql> █
```

Figure 9

```
mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| classicmodels      |
| donut_shop          |
| mysql               |
| performance_schema |
| sys                 |
| zoo                 |
+-----+
7 rows in set (0.01 sec)
```

Figure 10

```
ERROR 1146 (42S02): Table 'donut_shop' doesn't exist
mysql> SHOW TABLES;
+-----+
| Tables_in_donut_shop |
+-----+
| Customer              |
| Donut                 |
| Invoice               |
| InvoiceLineItem        |
+-----+
4 rows in set (0.00 sec)
```

Figure 11