

SMOKE TEST

MySQL 5.6

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1 TESTING BASIC FUNCTIONALITY OF HBASE

1.1 Connecting to MySQL Server

Run below command in bin path of MySQL to get connect to MySQL server:

```
./mysql
```

Once you are connected to the MySQL server, a welcome message is displayed and the MySQL prompt appears, at which SQL statements are to be sent to the server for execution.

```
[root@bluedata-2206 bin]# ./mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 2
Server version: 5.6.45 MySQL Community Server (GPL)

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owners.

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

1.2 Show Database

To show the existing database, execute the below command:

```
SHOW DATABASES;
```

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

1.3 Create Database

To create a new database, execute the below command:

```
CREATE DATABASE pets;
```

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

1.4 Use Database

To use the created database, execute the below command:

```
USE pets
```

```
mysql> USE pets  
Database changed
```

1.5 Create Table

To create a new table, execute the below command:

```
CREATE TABLE cats  
(  
  id          INT unsigned NOT NULL AUTO_INCREMENT,  
  name        VARCHAR(150) NOT NULL,  
  owner       VARCHAR(150) NOT NULL,  
  birth       DATE NOT NULL,  
  PRIMARY KEY (id)  
);
```

```
mysql>  
mysql> CREATE TABLE cats  
-> (  
->  id          INT unsigned NOT NULL AUTO_INCREMENT, # Unique ID for the record  
->  name        VARCHAR(150) NOT NULL,               # Name of the cat  
->  owner       VARCHAR(150) NOT NULL,               # Owner of the cat  
->  birth       DATE NOT NULL,                        # Birthday of the cat  
->  PRIMARY KEY (id)                                # Make the id the primary key  
-> );  
Query OK, 0 rows affected (0.00 sec)
```

1.6 Show Tables

To view tables, execute the below command:

```
SHOW TABLES;
```

```
mysql> SHOW TABLES;
+-----+
| Tables_in_pets |
+-----+
| cats           |
+-----+
1 row in set (0.00 sec)
```

1.7 Describe Tables

To view all the information of the columns of the tables, execute the below command:

```
DESCRIBE cats;
```

```
mysql> DESCRIBE cats;
+-----+-----+-----+-----+-----+-----+
| Field | Type                | Null | Key | Default | Extra           |
+-----+-----+-----+-----+-----+-----+
| id    | int(10) unsigned    | NO   | PRI | NULL    | auto_increment |
| name  | varchar(150)        | NO   |     | NULL    |                 |
| owner | varchar(150)        | NO   |     | NULL    |                 |
| birth | date                | NO   |     | NULL    |                 |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)
```

1.8 Insert Data

To insert data into tables, execute the below command:

```
INSERT INTO cats ( name, owner, birth) VALUES
( 'Sandy', 'Lennon', '2015-01-03' ),
( 'Cookie', 'Casey', '2013-11-13' ),
( 'Charlie', 'River', '2016-05-21' );
```

```
mysql> INSERT INTO cats ( name, owner, birth) VALUES
->   ( 'Sandy', 'Lennon', '2015-01-03' ),
->   ( 'Cookie', 'Casey', '2013-11-13' ),
->   ( 'Charlie', 'River', '2016-05-21' );
Query OK, 3 rows affected (0.00 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

1.9 Select Data

1. To retrieve records from a table, execute the below command:

```
SELECT * FROM cats;
```

```
mysql> SELECT * FROM cats;
+----+-----+-----+-----+
| id | name  | owner | birth   |
+----+-----+-----+-----+
|  1 | Sandy | Lennon | 2015-01-03 |
|  2 | Cookie | Casey | 2013-11-13 |
|  3 | Charlie | River | 2016-05-21 |
+----+-----+-----+-----+
3 rows in set (0.00 sec)
```

2. To retrieve specific columns and rows by a certain condition, execute the below command:

```
SELECT name FROM cats WHERE owner = 'Casey';
```

```
mysql> SELECT name FROM cats WHERE owner = 'Casey';
+-----+
| name  |
+-----+
| Cookie |
+-----+
1 row in set (0.00 sec)
```

1.10 Delete Data

To delete a record from a table, execute the below command:

```
DELETE FROM cats WHERE name='Cookie';
```

```
mysql> DELETE FROM cats WHERE name='Cookie';
Query OK, 1 row affected (0.00 sec)

mysql> SELECT * FROM cats;
+----+-----+-----+-----+
| id | name   | owner | birth   |
+----+-----+-----+-----+
|  1 | Sandy  | Lennon | 2015-01-03 |
|  3 | Charlie | River  | 2016-05-21 |
+----+-----+-----+-----+
2 rows in set (0.00 sec)
```

1.11 Alter Table

To add/delete a column to/from a table, execute the below command:

```
ALTER TABLE cats ADD gender CHAR(1) AFTER name;
```

```
mysql> ALTER TABLE cats ADD gender CHAR(1) AFTER name;
Query OK, 0 rows affected (0.02 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> DESCRIBE cats;
+-----+-----+-----+-----+-----+-----+
| Field | Type                | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| id    | int(10) unsigned    | NO   | PRI | NULL    | auto_increment |
| name  | varchar(150)        | NO   |     | NULL    |                |
| gender | char(1)              | YES  |     | NULL    |                |
| owner | varchar(150)        | NO   |     | NULL    |                |
| birth | date                 | NO   |     | NULL    |                |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> █
```