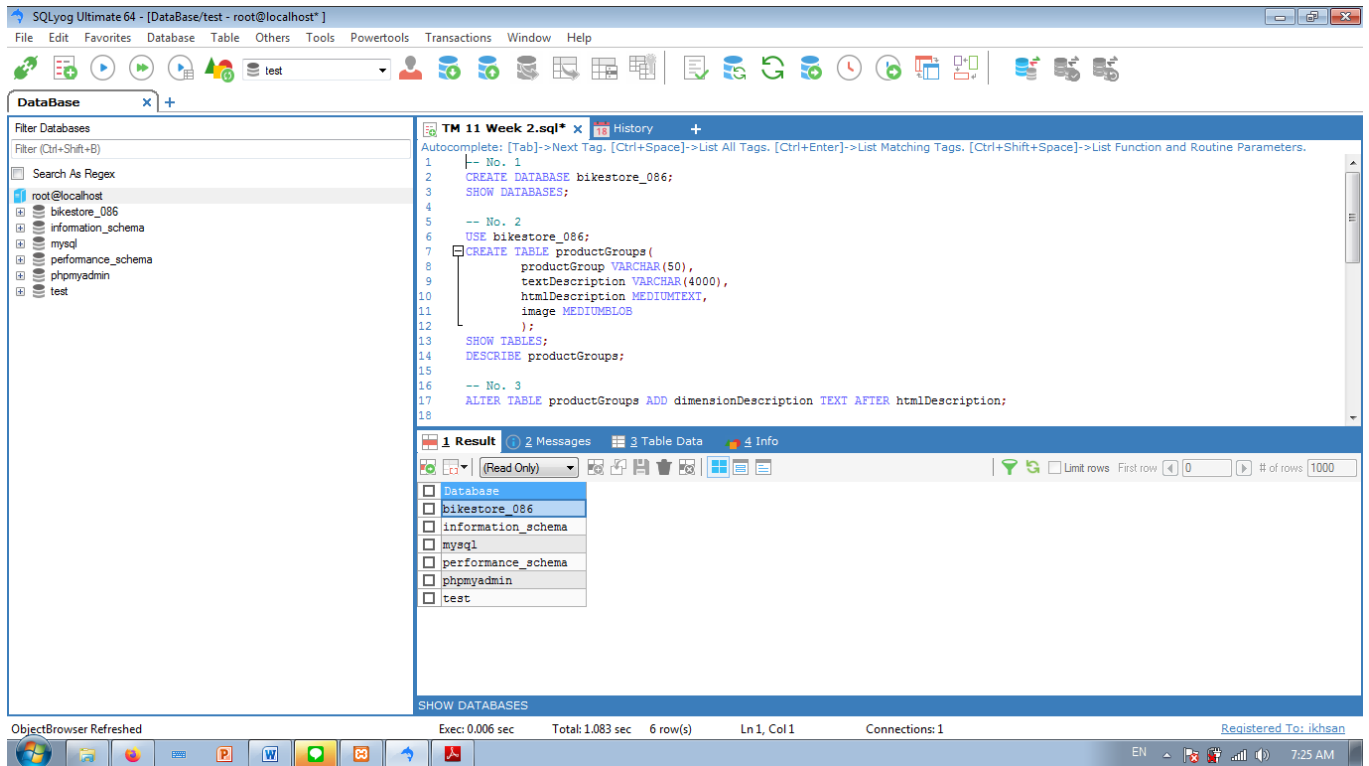


```
-- No. 1
CREATE DATABASE bikestore_086;
SHOW DATABASES;
```



```
-- No. 2
USE bikestore_086;
CREATE TABLE productGroups(
    productGroup VARCHAR(50),
    textDescription VARCHAR(4000),
    htmlDescription MEDIUMTEXT,
    image MEDIUMBLOB
);
SHOW TABLES;
DESCRIBE productGroups;
```

SQLyog Ultimate 64 - [DataBase/bikestore_086 - root@localhost*]

File Edit Favorites Database Table Others Tools Powertools Transactions Window Help

bikestore_086

DataBase

Filter tables in bikestore_086

Filter (Ctrl+Shift+B)

Search As Regex

root@localhost

bikestore_086

information_schema

mysql

performance_schema

phpmyadmin

test

TM 11 Week 2.sql* x History +

Autocomplete: [Tab]->Next Tag. [Ctrl+Space]->List All Tags. [Ctrl+Enter]->List Matching Tags. [Ctrl+Shift+Space]->List Function and Routine Parameters.

```

1 -- No. 1
2 CREATE DATABASE bikestore_086;
3 SHOW DATABASES;
4
5 -- No. 2
6 USE bikestore_086;
7 CREATE TABLE productGroups (
8     productGroup VARCHAR(50),
9     textDescription VARCHAR(4000),
10    htmlDescription MEDIUMTEXT,
11    image MEDIUMBLOB
12 );
13 SHOW TABLES;
14 DESCRIBE productGroups;
15
16 -- No. 3
17 ALTER TABLE productGroups ADD dimensionDescription TEXT AFTER htmlDescription;
18

```

1 Result 2 Messages 3 Table Data 4 Info

(Read Only)

Field	Type	Null	Key	Default	Extra
productGroup	varchar(50)	11B YES		(NULL)	OK
textDescription	varchar(4000)	13B YES		(NULL)	OK
htmlDescription	mediumtext	10B YES		(NULL)	OK
image	mediumblob	10B YES		(NULL)	OK

DESCRIBE productGroups

Query batch completed successfully Exec: 0.005 sec Total: 0.015 sec 4 row(s) Ln 5, Col 1 Connections: 1

Registered To: ikhsan

7:26 AM

-- No. 3

```

ALTER TABLE productGroups ADD dimensionDescription TEXT AFTER
htmlDescription;
DESCRIBE productGroups;

```

SQLyog Ultimate 64 - [DataBase/bikestore_086 - root@localhost*]

File Edit Favorites Database Table Others Tools Powertools Transactions Window Help

bikestore_086

DataBase

Filter tables in bikestore_086

Filter (Ctrl+Shift+B)

Search As Regex

root@localhost

bikestore_086

information_schema

mysql

performance_schema

phpmyadmin

test

TM 11 Week 2.sql* x History +

Autocomplete: [Tab]->Next Tag. [Ctrl+Space]->List All Tags. [Ctrl+Enter]->List Matching Tags. [Ctrl+Shift+Space]->List Function and Routine Parameters.

```

4
5 -- No. 2
6 USE bikestore_086;
7 CREATE TABLE productGroups (
8     productGroup VARCHAR(50),
9     textDescription VARCHAR(4000),
10    htmlDescription MEDIUMTEXT,
11    image MEDIUMBLOB
12 );
13 SHOW TABLES;
14 DESCRIBE productGroups;
15
16 -- No. 3
17 ALTER TABLE productGroups ADD dimensionDescription TEXT AFTER htmlDescription;
18 DESCRIBE productGroups;
19
20 -- No. 4
21 ALTER TABLE productGroups ADD PRIMARY KEY (productGroup);

```

1 Result 2 Messages 3 Table Data 4 Info

(Read Only)

Field	Type	Null	Key	Default	Extra
productGroup	varchar(50)	11B YES		(NULL)	OK
textDescription	varchar(4000)	13B YES		(NULL)	OK
htmlDescription	mediumtext	10B YES		(NULL)	OK
dimensionDescription	text	4B YES		(NULL)	OK
image	mediumblob	10B YES		(NULL)	OK

DESCRIBE productGroups

Query batch completed successfully Exec: 0.006 sec Total: 0.007 sec 5 row(s) Ln 16, Col 1 Connections: 1

Registered To: ikhsan

7:28 AM

-- No. 4

```
ALTER TABLE productGroups ADD PRIMARY KEY (productGroup);  
DESCRIBE productGroups;
```

The screenshot shows the SQLyog Ultimate 64 interface. The left sidebar displays the database structure for 'bikestore_086'. The main window shows a SQL script with the following queries:

```
-- No. 3  
ALTER TABLE productGroups ADD dimensionDescription TEXT AFTER htmlDescription;  
DESCRIBE productGroups;  
  
-- No. 4  
ALTER TABLE productGroups ADD PRIMARY KEY (productGroup);  
DESCRIBE productGroups;  
  
-- No. 5  
ALTER TABLE productGroups CHANGE textDescription textDescription VARCHAR(2000);  
ALTER TABLE productGroups CHANGE htmlDescription htmlDescription TEXT;  
DESCRIBE productGroups;  
  
-- No. 6  
ALTER TABLE productGroups CHANGE image picture MEDIUMBLOB;
```

The 'Result' tab is active, showing the output of the 'DESCRIBE productGroups' query:

Field	Type	Null	Key	Default	Extra
productGroup	varchar(50)	11B NO	PRI	(NULL)	OK
textDescription	varchar(4000)	13B YES		(NULL)	OK
htmlDescription	mediumtext	10B YES		(NULL)	OK
dimensionDescription	text	4B YES		(NULL)	OK
image	mediumblob	10B YES		(NULL)	OK

The status bar at the bottom indicates: 'Query batch completed successfully', 'Exec: 0.139 sec', 'Total: 1.215 sec', '5 row(s)', 'Ln 20, Col 1', 'Connections: 1', and 'Registered To: ikhsan'. The system clock shows 7:29 AM.

-- No. 5

```
ALTER TABLE productGroups CHANGE textDescription textDescription  
VARCHAR(2000);  
ALTER TABLE productGroups CHANGE htmlDescription htmlDescription TEXT;  
DESCRIBE productGroups;
```

SQLyog Ultimate 64 - [DataBase/bikestore_086 - root@localhost*]

File Edit Favorites Database Table Others Tools Powertools Transactions Window Help

DataBase

Filter tables in bikestore_086

Filter (Ctrl+Shift+B)

Search As Regex

root@localhost

bikestore_086

information_schema

mysql

performance_schema

phpmyadmin

test

TM 11 Week 2.sql* x History +

Autocomplete: [Tab]->Next Tag. [Ctrl+Space]->List All Tags. [Ctrl+Enter]->List Matching Tags. [Ctrl+Shift+Space]->List Function and Routine Parameters.

```

13 SHOW TABLES;
14 DESCRIBE productGroups;
15
16 -- No. 3
17 ALTER TABLE productGroups ADD dimensionDescription TEXT AFTER htmlDescription;
18 DESCRIBE productGroups;
19
20 -- No. 4
21 ALTER TABLE productGroups ADD PRIMARY KEY (productGroup);
22 DESCRIBE productGroups;
23
24 -- No. 5
25 ALTER TABLE productGroups CHANGE textDescription textDescription VARCHAR(2000);
26 ALTER TABLE productGroups CHANGE htmlDescription htmlDescription TEXT;
27 DESCRIBE productGroups;
28
29 -- No. 6
30 ALTER TABLE productGroups CHANGE image picture MEDIUMBLOB;

```

1 Result 2 Messages 2 Table Data 4 Info

(Read Only) Limit rows First row 0 # of rows 1000

Field	Type	Null	Key	Default	Extra
productGroup	varchar(50)	11B NO	PRI	(NULL)	OK
textDescription	varchar(2000)	13B YES		(NULL)	OK
htmlDescription	text	4B YES		(NULL)	OK
dimensionDescription	text	4B YES		(NULL)	OK
image	mediumblob	10B YES		(NULL)	OK

DESCRIBE productGroups

Query batch completed successfully Exec: 0.294 sec Total: 2.446 sec 5 row(s) Ln 24, Col 1 Connections: 1 Registered To: ikhsan

-- No. 6

```

ALTER TABLE productGroups CHANGE image picture MEDIUMBLOB;
DESCRIBE productGroups;

```

SQLyog Ultimate 64 - [DataBase/bikestore_086 - root@localhost*]

File Edit Favorites Database Table Others Tools Powertools Transactions Window Help

DataBase

Filter tables in bikestore_086

Filter (Ctrl+Shift+B)

Search As Regex

root@localhost

bikestore_086

information_schema

mysql

performance_schema

phpmyadmin

test

TM 11 Week 2.sql* x History +

Autocomplete: [Tab]->Next Tag. [Ctrl+Space]->List All Tags. [Ctrl+Enter]->List Matching Tags. [Ctrl+Shift+Space]->List Function and Routine Parameters.

```

22 DESCRIBE productGroups;
23
24 -- No. 5
25 ALTER TABLE productGroups CHANGE textDescription textDescription VARCHAR(2000);
26 ALTER TABLE productGroups CHANGE htmlDescription htmlDescription TEXT;
27 DESCRIBE productGroups;
28
29 -- No. 6
30 ALTER TABLE productGroups CHANGE image picture MEDIUMBLOB;
31 DESCRIBE productGroups;
32
33 -- No. 7
34 ALTER TABLE productGroups RENAME TO productGroups_086;
35 DESCRIBE productGroups_086;
36
37 -- No. 8
38 CREATE TABLE products_086(
39   DESCRIBE products_086;

```

1 Result 2 Messages 2 Table Data 4 Info

(Read Only) Limit rows First row 0 # of rows 1000

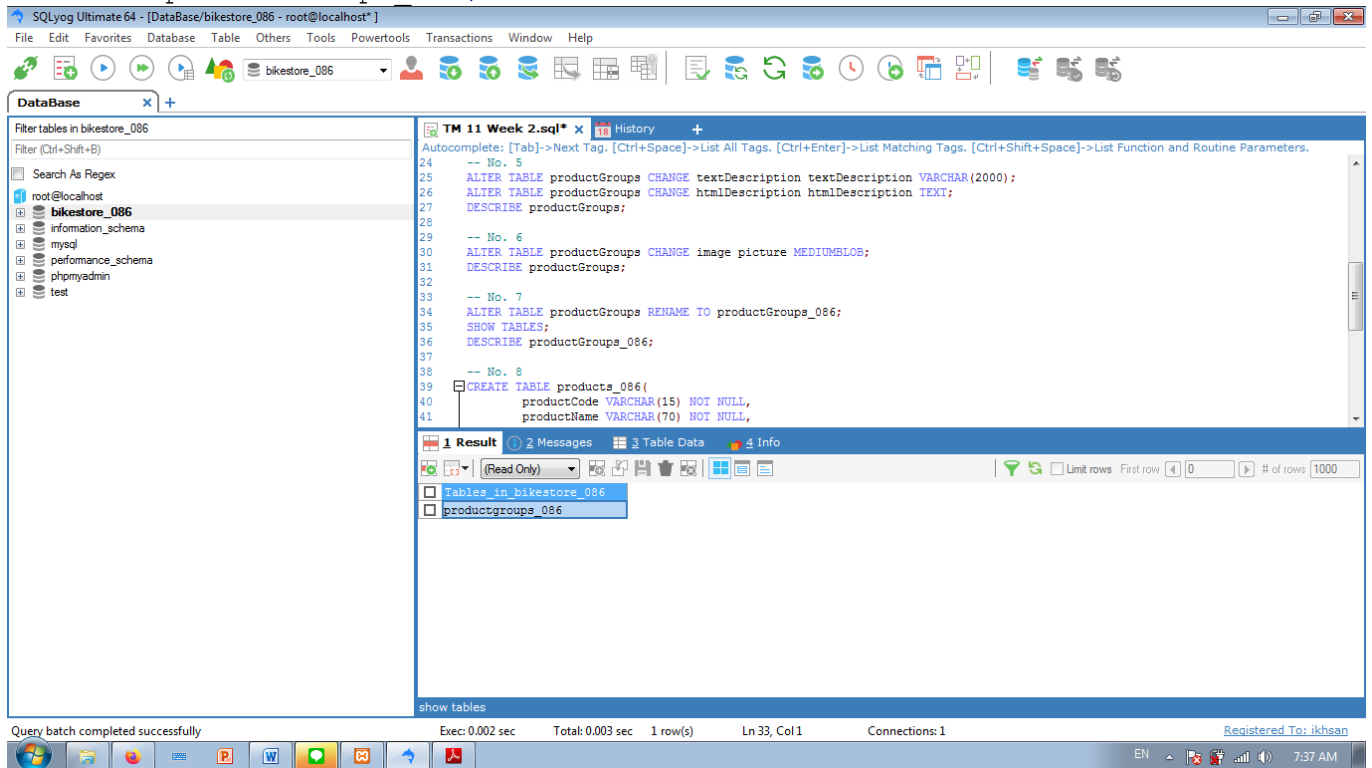
Field	Type	Null	Key	Default	Extra
productGroup	varchar(50)	11B NO	PRI	(NULL)	OK
textDescription	varchar(2000)	13B YES		(NULL)	OK
htmlDescription	text	4B YES		(NULL)	OK
dimensionDescription	text	4B YES		(NULL)	OK
picture	mediumblob	10B YES		(NULL)	OK

DESCRIBE productGroups

Query batch completed successfully Exec: 0.057 sec Total: 1.133 sec 5 row(s) Ln 29, Col 1 Connections: 1 Registered To: ikhsan

-- No. 7

```
ALTER TABLE productGroups RENAME TO productGroups_086;  
SHOW TABLES;  
DESCRIBE productGroups_086;
```



-- No. 8

```
CREATE TABLE products_086(  
productCode VARCHAR(15) NOT NULL,  
productName VARCHAR(70) NOT NULL,  
productScale VARCHAR(10) NOT NULL,  
productVendor VARCHAR(50) NOT NULL,  
productDescription TEXT NOT NULL,  
quantityInStock SMALLINT NOT NULL,  
buyPrice DOUBLE NOT NULL,  
MSRP DOUBLE NOT NULL,  
PRIMARY KEY (productCode)  
);  
DESCRIBE products_086;
```

SQLyog Ultimate 64 - [DataBase/bikestore_086 - root@localhost*]

File Edit Favorites Database Table Others Tools Powertools Transactions Window Help

Search As Regex root@localhost bikestore_086 information_schema mysql performance_schema phpmyadmin test

TM 11 Week 2.sql* x History

Autocomplete: [Tab]->Next Tag. [Ctrl+Space]->List All Tags. [Ctrl+Enter]->List Matching Tags. [Ctrl+Shift+Space]->List Function and Routine Parameters.

```

35 SHOW TABLES;
36 DESCRIBE productGroups_086;
37
38 -- No. 8
39 CREATE TABLE products_086(
40     productCode VARCHAR(15) NOT NULL,
41     productName VARCHAR(70) NOT NULL,
42     productScale VARCHAR(10) NOT NULL,
43     productVendor VARCHAR(50) NOT NULL,
44     productDescription TEXT NOT NULL,
45     quantityInStock SMALLINT NOT NULL,
46     buyPrice DOUBLE NOT NULL,
47     MSRP DOUBLE NOT NULL,
48     PRIMARY KEY (productCode)
49 );
50 DESCRIBE products_086;
51
52 -- No. 9

```

1 Result 2 Messages 2 Table Data 4 Info

(Read Only) Limit rows First row 0 # of rows 1000

Field	Type	Null	Key	Default	Extra
productCode	varchar(15)	11B NO	PRI	(NULL)	OK
productName	varchar(70)	11B NO		(NULL)	OK
productScale	varchar(10)	11B NO		(NULL)	OK
productVendor	varchar(50)	11B NO		(NULL)	OK
productDescription	text	4B NO		(NULL)	OK
quantityInStock	smallint(6)	11B NO		(NULL)	OK
buyPrice	double	6B NO		(NULL)	OK
MSRP	double	6B NO		(NULL)	OK

DESCRIBE products_086

Query batch completed successfully Exec: 0.076 sec Total: 1.152 sec 8 row(s) Ln 38, Col 1 Connections: 1 Registered To: ikhsan

EN 7:38 AM

-- No. 9

```

ALTER TABLE products_086 ADD productGroup VARCHAR(50) AFTER
productName;
ALTER TABLE products_086 ADD FOREIGN KEY (productGroup) REFERENCES
productGroups_086(productGroup);
DESCRIBE products_086;

```

SQLyog Ultimate 64 - [DataBase/bikestore_086 - root@localhost*]

File Edit Favorites Database Table Others Tools Powertools Transactions Window Help

Filter tables in bikestore_086

Search As Regex

root@localhost

bikestore_086

information_schema

mysql

performance_schema

phpmyadmin

test

TM 11 Week 2.sql* x History +

Autocomplete: [Tab]->Next Tag, [Ctrl+Space]->List All Tags, [Ctrl+Enter]->List Matching Tags, [Ctrl+Shift+Space]->List Function and Routine Parameters.

```

47      MSRP DOUBLE NOT NULL,
48      PRIMARY KEY (productCode)
49  );
50  DESCRIBE products_086;
51
52  -- No. 9
53  ALTER TABLE products_086 ADD productGroup VARCHAR(50) AFTER productName;
54  ALTER TABLE products_086 ADD FOREIGN KEY (productGroup) REFERENCES productGroups_086(productGroup);
55  DESCRIBE products_086;
56
57  -- No. 10
58  ALTER TABLE products_086 ADD sellPrice DOUBLE AFTER buyPrice;
59  DESCRIBE products_086;
60
61  -- No. 11
62  ALTER TABLE products_086 DROP MSRP;
63  DESCRIBE products_086;
64

```

1 Result 2 Messages 2 Table Data 4 Info

(Read Only)

Limit rows First row 0 # of rows 1000

Field	Type	Null	Key	Default	Extra
productCode	varchar(15)	11B NO	PRI	(NULL)	OK
productName	varchar(70)	11B NO		(NULL)	OK
productGroup	varchar(50)	11B YES	MUL	(NULL)	OK
productScale	varchar(10)	11B NO		(NULL)	OK
productVendor	varchar(50)	11B NO		(NULL)	OK
productDescription	text	4B NO		(NULL)	OK
quantityInStock	smallint(6)	11B NO		(NULL)	OK
buyPrice	double	6B NO		(NULL)	OK
MSRP	double	6B NO		(NULL)	OK

DESCRIBE products_086

Query batch completed successfully Exec: 0.141 sec Total: 1.221 sec 9 row(s) Ln 52, Col 1 Connections: 1 Registered To: ikhsan

```

-- No. 10
ALTER TABLE products_086 ADD sellPrice DOUBLE AFTER buyPrice;
DESCRIBE products_086;

```

SQLyog Ultimate 64 - [DataBase/bikestore_086 - root@localhost*]

File Edit Favorites Database Table Others Tools Powertools Transactions Window Help

Filter tables in bikestore_086

Search As Regex

root@localhost

bikestore_086

information_schema

mysql

performance_schema

phpmyadmin

test

TM 11 Week 2.sql* x History +

Autocomplete: [Tab]->Next Tag, [Ctrl+Space]->List All Tags, [Ctrl+Enter]->List Matching Tags, [Ctrl+Shift+Space]->List Function and Routine Parameters.

```

47      MSRP DOUBLE NOT NULL,
48      PRIMARY KEY (productCode)
49  );
50  DESCRIBE products_086;
51
52  -- No. 9
53  ALTER TABLE products_086 ADD productGroup VARCHAR(50) AFTER productName;
54  ALTER TABLE products_086 ADD FOREIGN KEY (productGroup) REFERENCES productGroups_086(productGroup);
55  DESCRIBE products_086;
56
57  -- No. 10
58  ALTER TABLE products_086 ADD sellPrice DOUBLE AFTER buyPrice;
59  DESCRIBE products_086;
60
61  -- No. 11
62  ALTER TABLE products_086 DROP MSRP;
63  DESCRIBE products_086;
64

```

1 Result 2 Messages 3 Table Data 4 Info

(Read Only)

Limit rows First row 0 # of rows 1000

Field	Type	Null	Key	Default	Extra
productCode	varchar(15)	11B NO	PRI	(NULL)	OK
productName	varchar(70)	11B NO		(NULL)	OK
productGroup	varchar(50)	11B YES	MUL	(NULL)	OK
productScale	varchar(10)	11B NO		(NULL)	OK
productVendor	varchar(50)	11B NO		(NULL)	OK
productDescription	text	4B NO		(NULL)	OK
quantityInStock	smallint(6)	11B NO		(NULL)	OK
buyPrice	double	6B NO		(NULL)	OK
sellPrice	double	6B YES		(NULL)	OK
MSRP	double	6B NO		(NULL)	OK

DESCRIBE products_086

Query batch completed successfully Exec: 0.058 sec Total: 1.134 sec 10 row(s) Ln 57, Col 1 Connections: 1 Registered To: ikhsan

```
-- No. 11
ALTER TABLE products_086 DROP MSRP;
DESCRIBE products_086;
```

SQLyog Ultimate 64 - [DataBase/bikestore_086 - root@localhost*]

File Edit Favorites Database Table Others Tools Powertools Transactions Window Help

Filter tables in bikestore_086

Filter (Ctrl+Shift+B)

Search As Regex

root@localhost

bikestore_086

information_schema

mysql

performance_schema

phpmyadmin

test

TM 11 Week 2.sql* x History

Autocomplete: [Tab]->Next Tag, [Ctrl+Space]->List All Tags, [Ctrl+Enter]->List Matching Tags, [Ctrl+Shift+Space]->List Function and Routine Parameters.

```
47 MSRP DOUBLE NOT NULL,
48 PRIMARY KEY (productCode)
49 );
50 DESCRIBE products_086;
51
52 -- No. 9
53 ALTER TABLE products_086 ADD productGroup VARCHAR(50) AFTER productName;
54 ALTER TABLE products_086 ADD FOREIGN KEY (productGroup) REFERENCES productGroups_086(productGroup);
55 DESCRIBE products_086;
56
57 -- No. 10
58 ALTER TABLE products_086 ADD sellPrice DOUBLE AFTER buyPrice;
59 DESCRIBE products_086;
60
61 -- No. 11
62 ALTER TABLE products_086 DROP MSRP;
63 DESCRIBE products_086;
64
```

1 Result 2 Messages 3 Table Data 4 Info

(Read Only)

Limit rows: First row 0 # of rows 1000

Field	Type	Null	Key	Default	Extra
productCode	varchar(15)	11B NO	PRI	(NULL)	OK
productName	varchar(70)	11B NO		(NULL)	OK
productGroup	varchar(50)	11B YES	MUL	(NULL)	OK
productScale	varchar(10)	11B NO		(NULL)	OK
productVendor	varchar(50)	11B NO		(NULL)	OK
productDescription	text	4B NO		(NULL)	OK
quantityInStock	smallint(6)	11B NO		(NULL)	OK
buyPrice	double	6B NO		(NULL)	OK
sellPrice	double	6B YES		(NULL)	OK

DESCRIBE products_086

Query batch completed successfully Exec: 0.040 sec Total: 1.116 sec 9 row(s) Ln 61, Col 1 Connections: 1 Registered To: ikhsan

EN 7:40 AM