```
mysql> create table products (id integer primary key,productName
char(20) ,supplierId integer, unit char(20),price real);
Query OK, 0 rows affected (0.08 sec)
mysql> insert into products values(1, 'chais', 1, 10 'boxes*20 boxes',
18);
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 ''boxes*20 boxes',18)' at line 1
mysql> insert into products values(1, 'chais',1,'10 boxes*20 boxes',
18):
Query OK, 1 row affected (0.01 sec)
mysql> insert into products values(2,'chang',1,'24*12 boxes*20 boxes',
18):
Query OK, 1 row affected (0.01 sec)
mysql> insert into products values(2,'chang',1,'24*12 boxes*20 boxes',
18);
ERROR 1062 (23000): Duplicate entry '2' for key 'PRIMARY'
mysql> drop table products;
Query OK, 0 rows affected (0.01 sec)
mysql> create table products (id integer primary key,productName
varchar(20) ,supplierId integer, unit varchar(20),price real);
Query OK, 0 rows affected (0.02 sec)
mysql> insert into products values(1,'chais',1,'10 boxes*20 bags',18);
Query OK, 1 row affected (0.00 sec)
mysql> insert into products values(2,'chang',1,'24-12 oz bottles',19);
Query OK, 1 row affected (0.00 sec)
mysql> insert into products values(3, 'aniseed syrup',1,'12-550 ml
bottl
Query OK, 1 row affected (0.01 sec)
mysql> select *from products;
```

+   id +	+   productName +	supplierId	   unit	++   price   
j 2	chais   chang   aniseed syrup	j 1	10 boxes*20 bags   24–12 oz bottles   12–550 ml bottles	18     19     10

3 rows in set (0.00 sec)

mysql> insert into products values(4,'chef anton',2,'48-6 oz jars',
22);

Query OK, 1 row affected (0.00 sec)

mysql> insert into products values(5,'chef Gumbo',2,'36 boxes',21.35);
Query OK, 1 row affected (0.01 sec)

mysql> select \*from products;

+----

	id	productName	supplierId	   unit	+   price
       	2 3 4	chais chang aniseed syrup chef anton chef Gumbo	1   1   2	10 boxes*20 bags   24-12 oz bottles   12-550 ml bottles   48-6 oz jars   36 boxes	18     19     10     22     21.35

5 rows in set (0.00 sec)

mysql> select productName from products where price operator any
(select price fromsupplierId where id=5);

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 'operator any (select price fromsupplierId where id=5)' at line 1

mysql> SELECT productName from products where supplierId operator ANY
(SELECT price from products where id=5);

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 'operator ANY (SELECT price from products where id=5)' at line 1

mysql> alter table products add column OrderDeatilsID integer; Query OK, 0 rows affected (0.01 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> mysql> alter table products add column OrderDeatilsID integer; ERROR 1060 (42S21): Duplicate column name 'OrderDeatilsID' mysql> alter table products add column orderID integer; Query OK, 0 rows affected (0.02 sec) Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table products add column productID integer;
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table products add column Quantity integer;
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0

```
-> ;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select *from products;
+-----
+----+
OrderDeatilsID | orderID | productID | Quantity |
+----+
5 rows in set (0.00 sec)
mysql> update products set OrderDeatilsID=1,orderID=10248 whermysql> ;
ERROR:
No query specified
mysql> ;update products set
OrderDeatilsID=2,orderID=10248,productID=2,Quantity=10 where id=2;
ERROR:
No query specified
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select *from products;
+-----
+----+
| id | productName | supplierId | unit
                               | price |
OrderDeatilsID | orderID | productID | Quantity |
+-----
```

mysql> update products set OrderDeatilsID=1,orderID=10248 where id=1

```
| 3 | aniseed syrup | 1 | 12-550 ml bottles | 10 | NULL | NULL |
NULL | NULL |
                 | 2 | 48-6 oz jars | 22 |
NULL | NULL |
| 2 | 36 boxes | 21.35 |
| 4 | chef anton
NULL | NULL |
+----+
5 rows in set (0.00 sec)
mysql> ;update products set
OrderDeatilsID=3,orderID=10248,productID=3,Quantity=15 where id=3;
ERROR:
No query specified
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> ;update products set
OrderDeatilsID=4,orderID=10249,productID=1,Quantity=8 where id=4;
ERROR:
No query specified
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> update products set
OrderDeatilsID=3,orderID=10248,productID=3,Quantity=15 where id=3;
Query OK, 0 rows affected (0.00 sec)
Rows matched: 1 Changed: 0 Warnings: 0
mysql> update products set
OrderDeatilsID=4,orderID=10249,productID=1,Quantity=8 where id=4;
Query OK, 0 rows affected (0.00 sec)
Rows matched: 1 Changed: 0 Warnings: 0
mysgl> update products set
OrderDeatilsID=5,orderID=10249,productID=4,Quantity=4 where id=5;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select *from products;
+-----+----+
+----+
| id | productName | supplierId | unit
                                            | price |
OrderDeatilsID | orderID | productID | Quantity |
+----+
```

```
+----+
5 rows in set (0.00 sec)
mysql> update products set productID=1,Qulity=12 where id=1;
ERROR 1054 (42S22): Unknown column 'Qulity' in 'field list' mysql> update products set productID=1,Quantity=12 where id=1;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select *from products;
+---+----+----+-----
+-----+
| id | productName | supplierId | unit
                                  | price |
OrderDeatilsID | orderID | productID | Quantity |
+----+
+----+
5 rows in set (0.00 sec)
e Quantity = 4 or Quantity = 12);
Empty set (0.01 sec)
mysql> mysql> select all productName from products where true;
| fromme |
```

```
chais
 chang
aniseed syrup
l chef anton
| chef Gumbo
5 rows in set (0.01 sec)
mysql> select productName from products where productID = ALL (SELECT
productID FROM products WHERE Quantity=4);
+----+
| productName |
+----+
| chef Gumbo |
+----+
1 row in set (0.00 sec)
mysql> select productName from products where productID = ALL (SELECT
productID FROM products GROUP BY orderID);
Empty set (0.00 sec)
mysql> select productName FROM products where productID = ANY (SELECT
productID FROM products WHERE Quantity = 12);
+----+
| productName |
+----+
| chais
| chef anton |
+----+
2 rows in set (0.00 sec)
mysql> select productName FROM products where productID = SOME (SELECT
productID FROM products WHERE Quantity = 12);
| productName |
l chais
| chef anton
2 rows in set (0.00 sec)
mysql> select productName from products where price > some(select
price from products where orderID= 10248);
| productName |
| chais
| chang
```

```
| chef anton
| chef Gumbo |
+----+
4 rows in set (0.00 sec)
mysql> select * from products where productName in ('chais','chang');
+----+
OrderDeatilsID | orderID | productID | Quantity |
+---+----+----+----+----+
2 rows in set (0.00 sec)
mysql> select * from products where productName not in
('chais','chang');
+----+
| id | productName | supplierId | unit
                              | price |
OrderDeatilsID | orderID | productID | Quantity |
+----+
3 rows in set (0.00 sec)
mysql> select productName from products where exists (select price
from products where orderID= 10248);
+----+
| productName |
| chais
| chang
| aniseed syrup |
| chef anton
| chef Gumbo
```

```
5 rows in set (0.00 sec)
mysql> select productName from products where not exists (select price
from products where orderID= 10248);
Empty set (0.00 sec)
mysql> select productName from products where not exists (select price
from products where orderID>1000);
Empty set (0.00 sec)
mysql> select productName from products where NOT EXISTS (select
productName from products where orderID= 10248);
Empty set (0.00 sec)
mysql> distinct productName from products;
| productName |
l chais
chang
| aniseed syrup |
| chef anton
l chef Gumbo
5 rows in set (0.00 sec)
mysql> select count(distinct productName) from products;
+----+
| count(distinct productName) |
1 row in set (0.01 sec)
mysql> SELECT Count(*) AS DistinctProductNames FROM (SELECT DISTINCT
productName FROM products);
mysql> CREATE TABLE PERSONS (ID INT NOT NULL, LASTNAME VARCHAR(225)
NOT NULL, FIRSTNAME VARCHAR(225), AGE INT, UNIQUE (ID));
ERROR 1050 (42S01): Table 'persons' already exists
mysgl> CREATE TABLE PERSONS1 (ID INT NOT NULL, LASTNAME VARCHAR(225
Query OK, 0 rows affected (0.01 sec)
mysql> CREATE TABLE PERSONS2 (ID INT NOT NULL, LASTNAME VARCHAR(225)
NOT NULL, FIRSTNAME VARCHAR(225), AGE INT, CONSTRAINT UC_PERSON UNIQUE
(ID, LASTNAME));
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> CREATE TABLE PERSONS2 (ID INT NOT NULL, LASTNAME VARCHAR(225)
NOT NULL, FIRSTNAME VARCHAR(225), AGE INT, CONSTRAINT UC_PERSON UNIQUE
mysql> select *from products where NOT EXISTS(select productName from
products where id=1);
Empty set (0.00 sec)
mysql> select *from products where NOT EXISTS(select productName from
products where id<5);
Empty set (0.00 sec)
mvsql> select * from products where productName not in
('chais','chang')
   -> ;
+---+
+----+
| id | productName | supplierId | unit
3 rows in set (0.00 sec)
mysgl> insert into order table values(1);
Query OK, 1 row affected (0.00 sec)
mysql> insert into order_table values(2);
Query OK, 1 row affected (0.00 sec)
mysgl> insert into order table values(3);
Query OK, 1 row affected (0.00 sec)
mysql> insert into order_table values(4
   -> );
Query OK, 1 row affected (0.00 sec)
mysql> insert into order_table values(5);
Query OK, 1 row affected (0.00 sec)
mysql> select * from order_table;
+---+
| id |
```

mysql> select id, productName from products as top1 where not exists
(select\* from order\_table as bot1 where top1.id=bot1.id);
Empty set (0.00 sec)

mysql> select id, productName from products as top1 where exists
(select\* from order\_table as bot1 where top1.id=bot1.id);

id	productName	
1 2 3 4 5 5	chais   chang   aniseed syrup     chef anton   chef Gumbo	

5 rows in set (0.00 sec)

mysql> select id, productName from products as top1 where not exists
(select\* from order\_table as bot1 where top1.id=bot1.id);
Empty set (0.00 sec)

mysql>