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Database lab

P13-6042

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

mysql> DROP DATABASE southwind;
Query OK, 0 rows affected (0.40 sec)

mysql> CREATE DATABASE IF NOT EXISTS southwind;
Query OK, 1 row affected (0.00 sec)

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

mysql>
```

```
mysql> CREATE DATABASE IF NOT EXISTS southwind;
Query OK, 1 row affected (0.01 sec)

mysql>  SHOW  CREATE DATABASE IF NOT EXISTS southwind \G
*************************** 1. row ***************************
       Database: southwind
Create Database: CREATE DATABASE /*!32312 IF NOT EXISTS*/ `southwind` /*!40100 D
EFAULT CHARACTER SET latin1 */
1 row in set (0.04 sec)
```

```
mysql> DROP DATABASE IF EXISTS southwind;
Query OK, 0 rows affected (0.08 sec)

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

mysql> show DATABASES;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| db_lab             |
| lab_task           |
| mysql              |
| southwind          |
+--------------------+
5 rows in set (0.09 sec)
```

```
mysql> USE southwind;
Database changed
mysql> SELECT DATABASE();
+------------+
| DATABASE() |
+------------+
| southwind  |
+------------+
1 row in set (0.00 sec)

mysql>
```

```
mysql> CREATE      TABLE    IF    NOT    EXISTS    products    (
    ->                          productID                INT    UNSIGNED      NOT    NULL    AUTO_INCREMENT,
    ->                          productCode      CHAR(3)                    NOT    NULL    DEFAULT    '',
    ->                          name                                  VARCHAR(30)            NOT    NULL    DEFAULT    '',
    ->                          quantity                INT    UNSIGNED    NOT    NULL    DEFAULT    0,
    ->                          price                        DECIMAL(7,2)        NOT    NULL    DEFAULT    99999.99,
    ->                          PRIMARY    KEY        (productID)
    ->                                    );
Query OK, 0 rows affected (1.56 sec)
```

```
mysql> describe products;
+------------+------------------+------+-----+----------+----------------+
| Field      | Type             | Null | Key | Default  | Extra          |
+------------+------------------+------+-----+----------+----------------+
| productID  | int(10) unsigned | NO   | PRI | NULL     | auto_increment |
| productCode| char(3)          | NO   |     |          |                |
| name       | varchar(30)      | NO   |     |          |                |
| quantity   | int(10) unsigned | NO   |     | 0        |                |
| price      | decimal(7,2)     | NO   |     | 99999.99 |                |
+------------+------------------+------+-----+----------+----------------+
5 rows in set (0.17 sec)

mysql> SHOW    CREATE    TABLE    products    \G;
*************************** 1. row ***************************
       Table: products
Create Table: CREATE TABLE `products` (
  `productID` int(10) unsigned NOT NULL AUTO_INCREMENT,
  `productCode` char(3) NOT NULL DEFAULT '',
  `name` varchar(30) NOT NULL DEFAULT '',
  `quantity` int(10) unsigned NOT NULL DEFAULT '0',
  `price` decimal(7,2) NOT NULL DEFAULT '99999.99',
  PRIMARY KEY (`productID`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1
1 row in set (0.06 sec)

ERROR:
No query specified

mysql> SHOW    CREATE    TABLE    products    \G
*************************** 1. row ***************************
       Table: products
Create Table: CREATE TABLE `products` (
  `productID` int(10) unsigned NOT NULL AUTO_INCREMENT,
  `productCode` char(3) NOT NULL DEFAULT '',
  `name` varchar(30) NOT NULL DEFAULT '',
  `quantity` int(10) unsigned NOT NULL DEFAULT '0',
  `price` decimal(7,2) NOT NULL DEFAULT '99999.99',
  PRIMARY KEY (`productID`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1
1 row in set (0.00 sec)

mysql>
```

```
mysql> SHOW   CREATE   TABLE   products   \G
*********************** 1. row ***********************
       Table: products
Create Table: CREATE TABLE `products` (
  `productID` int(10) unsigned NOT NULL AUTO_INCREMENT,
  `productCode` char(3) NOT NULL DEFAULT '',
  `name` varchar(30) NOT NULL DEFAULT '',
  `quantity` int(10) unsigned NOT NULL DEFAULT '0',
  `price` decimal(7,2) NOT NULL DEFAULT '99999.99',
  PRIMARY KEY (`productID`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1
 row in set (0.00 sec)

mysql> INSERT   INTO   products   VALUES   (1001,   'PEN',   'Pen   Red',   5000,   1.23);
Query OK, 1 row affected (0.09 sec)

mysql> INSERT   INTO   products   VALUES
    ->                              (NULL,   'PEN',   'Pen   Blue',    8000,   1.25),
    ->                              (NULL,   'PEN',   'Pen   Black',   2000,   1.25);
Query OK, 2 rows affected (0.12 sec)
Enregistrements: 2  Doublons: 0  Avertissements: 0

mysql> INSERT   INTO   products   (productCode,   name,   quantity,   price)   VALUES
    ->                             ('PEC',   'Pencil   2B',   10000,   0.48),
    ->                             ('PEC',   'Pencil   2H',   8000,   0.49);
Query OK, 2 rows affected (0.11 sec)
Enregistrements: 2  Doublons: 0  Avertissements: 0

mysql> INSERT   INTO   products   (productCode,   name)   VALUES   ('PEC',   'Pencil   HB');
Query OK, 1 row affected (0.06 sec)
```

```
mysql> INSERT   INTO   products   values   (NULL,   NULL,   NULL,   NULL,   NULL);
ERROR 1048 (23000): Le champ 'productCode' ne peut être vide (null)
mysql> select * from products;
+-----------+-------------+--------------+----------+----------+
| productID | productCode | name         | quantity | price    |
+-----------+-------------+--------------+----------+----------+
|      1001 | PEN         | Pen   Red    |     5000 |     1.23 |
|      1002 | PEN         | Pen   Blue   |     8000 |     1.25 |
|      1003 | PEN         | Pen   Black  |     2000 |     1.25 |
|      1004 | PEC         | Pencil   2B  |    10000 |     0.48 |
|      1005 | PEC         | Pencil   2H  |     8000 |     0.49 |
|      1006 | PEC         | Pencil   HB  |        0 | 99999.99 |
+-----------+-------------+--------------+----------+----------+
6 rows in set (0.06 sec)

mysql> DELETE   FROM   products   WHERE   productID   =   1006;
Query OK, 1 row affected (0.13 sec)

mysql> DELETE   FROM   products   SELECT   name,   price   FROM   products;productID   =   1006;
ERROR 1064 (42000): Erreur de syntaxe près de 'SELECT   name,   price   FROM   products' à la ligne 1
ERROR 1064 (42000): Erreur de syntaxe près de 'productID   =   1006' à la ligne 1
mysql> select name ,price from products;
+--------------+-------+
| name         | price |
+--------------+-------+
| Pen   Red    |  1.23 |
| Pen   Blue   |  1.25 |
| Pen   Black  |  1.25 |
| Pencil   2B  |  0.48 |
| Pencil   2H  |  0.49 |
+--------------+-------+
5 rows in set (0.00 sec)

mysql> select * from products;
+-----------+-------------+--------------+----------+-------+
| productID | productCode | name         | quantity | price |
+-----------+-------------+--------------+----------+-------+
|      1001 | PEN         | Pen   Red    |     5000 |  1.23 |
|      1002 | PEN         | Pen   Blue   |     8000 |  1.25 |
|      1003 | PEN         | Pen   Black  |     2000 |  1.25 |
|      1004 | PEC         | Pencil   2B  |    10000 |  0.48 |
|      1005 | PEC         | Pencil   2H  |     8000 |  0.49 |
+-----------+-------------+--------------+----------+-------+
5 rows in set (0.00 sec)
```

```
mysql> select 1+1;
+-----+
| 1+1 |
+-----+
|   2 |
+-----+
1 row in set (0.06 sec)

mysql>
```

```
| productID | productCode | name      | quantity | price |
       1004 | PEC         | Pencil 2B |    10000 |  0.48
       1005 | PEC         | Pencil 2H |     8000 |  0.49
       1001 | PEN         | Pen   Red |     5000 |  1.23
       1002 | PEN         | Pen  Blue |     8000 |  1.25
       1003 | PEN         | Pen Black |     2000 |  1.25
5 rows in set (0.00 sec)

mysql> select * from products group by productcode;
| productID | productCode | name      | quantity | price |
       1004 | PEC         | Pencil 2B |    10000 |  0.48
       1001 | PEN         | Pen   Red |     5000 |  1.23
2 rows in set (0.00 sec)

mysql> select count(*) as 'count'from products;
| count |
|     5 |
1 row in set (0.06 sec)

mysql> select productcode,count (*)  rom products group by productcode;
ERROR 1064 (42000): Erreur de syntaxe près de '*)  rom products group by productcode' à la ligne 1
mysql> select productcode,count (*) from products group by productcode;
ERROR 1064 (42000): Erreur de syntaxe près de '*) from products group by productcode' à la ligne 1
mysql> select productcode,count (*) from products group by productcode;
ERROR 1064 (42000): Erreur de syntaxe près de '*) from products group by productcode' à la ligne 1
mysql> select productcode,count (*) from products group by productcode;
ERROR 1064 (42000): Erreur de syntaxe près de '*) from products group by productcode' à la ligne 1
mysql> select productcode,count(*) from products group by productcode;
| productcode | count(*) |
| PEC         |        2 |
| PEN         |        3 |
2 rows in set (0.00 sec)

mysql>
```

```
mysql> select productcode ,count(*) as 'Count' from products group by productcode order by count desc;
Empty set (0.00 sec)

mysql>
```

```
mysql> select productcode ,count(*) as 'Count' from products group by productcode order by count desc;
Empty set (0.00 sec)
```

```
mysql> select productcode ,count(*) as 'Count' from products group by productcode order by count desc;
Empty set (0.00 sec)

mysql> select max(price),min(price),avg(price),sid(price),sum(quantity);
ERROR 1054 (42S22): Champ 'price' inconnu dans field list
mysql> select max(price),min(price),avg(price),sid(price),sum(quantity) from products;
ERROR 1305 (42000): FUNCTION southwind.sid does not exist
mysql> select max(price),min(price),avg(price),std(price),sum(quantity) from products;
| max(price) | min(price) | avg(price) | std(price) | sum(quantity) |
|       NULL |       NULL |       NULL |       NULL |          NULL |
1 row in set (0.00 sec)

mysql> select productcode,max(price) as 'highest price',min(price) as 'lowest price' from products;
| productcode | highest price | lowest price |
| NULL        |          NULL |         NULL |
1 row in set (0.00 sec)
```

```
mysql> select productcode,max(price) as 'highest price',min(price) as 'lowest price' from products;
+-------------+---------------+--------------+
| productcode | highest price | lowest price |
+-------------+---------------+--------------+
| NULL        |          NULL |         NULL |
+-------------+---------------+--------------+
1 row in set (0.00 sec)

mysql> select productcode ,max(price),min(price),  CAST(avg(price) as decimal(7,2) as 'average', CAST(std(price) as decimal (7,2) as 'stddev',sum ( quantity )
    -> group by productcode;
ERROR 1064 (42000): Erreur de syntaxe près de 'as 'average', CAST(std(price) as decimal (7,2) as 'stddev',sum ( quantity) from ' à la ligne 1
mysql> select productcode ,max(price),min(price),  CAST(avg(price) as decimal(7,2) as 'average', CAST(std(pSELECT   productCode,   MAX(price),   MIN(price),
    ->                                       CAST(AVG(price)   AS   DECIMAL(7,2))   AS   `Average`,
    ->                                       CAST(STD(price)   AS   DECIMAL(7,2))   AS   `Std   Dev`,
    ->                                       SUM(quantity)
    ->                     FROM    products
    ->                     GROUP   BY     productCode;
ERROR 1064 (42000): Erreur de syntaxe près de 'as 'average', CAST(std(pSELECT   productCode,   MAX(price),   MIN(price),rice) a' à la ligne 1
mysql>                  GROUP   BY    productCode;SELECT   productCode,   MAX(price),   MIN(price),
ERROR 1064 (42000): Erreur de syntaxe près de 'GROUP    BY   productCode' à la ligne 1
    ->                                       CAST(AVG(price)   AS   DECIMAL(7,2))   AS   `Average`,
    ->                                       CAST(STD(price)   AS   DECIMAL(7,2))   AS   `Std   Dev`,
    ->                                       SUM(quantity)
    ->                     FROM    products
    ->                     GROUP   BY    productCode;
Empty set (0.10 sec)

mysql> SELECT
    ->                                       productCode   AS   `Product    Code`,
    ->                                       COUNT(*)    AS   `Count`,
    ->                                       CAST(AVG(price)   AS   DECIMAL(7,2))   AS   `Average`
    ->                     FROM    products
    ->                     GROUP   BY   productCode
    ->                     HAVING   Count   >=3;
Empty set (0.07 sec)
```

```
mysql> SELECT
    ->                                       productCode    AS   `Product    Code`,
    ->                                       COUNT(*)    AS   `Count`,
    ->                                       CAST(AVG(price)   AS   DECIMAL(7,2))   AS   `Average`
    ->                     FROM    products
    ->                     GROUP   BY   productCode
    ->                     HAVING   Count   >=3;
Empty set (0.07 sec)

mysql> SELECT
    ->                                       productCode,
    ->                                       MAX(price),
    ->                                       MIN(price),
    ->                                       CAST(AVG(price)   AS   DECIMAL(7,2))   AS   `Average`,
    ->                                       SUM(quantity)
    ->                     FROM    products
    ->                     GROUP   BY   productCode
    ->                     WITH   ROLLUP;
Empty set (0.07 sec)

mysql> UPDATE products SET price = price*1.1;
Query OK, 0 rows affected (0.08 sec)
Enregistrements correspondants: 0  Modifiés: 0  Warnings: 0

mysql> select * from products;
Empty set (0.00 sec)
```

```
mysql> select * from products;
+-----------+-------------+-----------+----------+-------+
| productID | productCode | name      | quantity | price |
+-----------+-------------+-----------+----------+-------+
|         1 | PEC         | Pencil"3B |      500 |  0.52 |
|         2 | PEC         | Pencil"4B |      200 |  0.62 |
|         3 | PEC         | Pencil"5B |      100 |  0.73 |
|         4 | PEC         | Pencil"6B |      500 |  0.47 |
|         8 | PEC         | Pencil"3B |      500 |  0.52 |
|         9 | PEC         | Pencil"4B |      200 |  0.62 |
|        10 | PEC         | Pencil"5B |      100 |  0.73 |
|        11 | PEC         | Pencil"6B |      500 |  0.47 |
+-----------+-------------+-----------+----------+-------+
8 rows in set (0.00 sec)
```

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

```
mysql> DELETE   FROM   products;
ERROR 1046 (3D000): Aucune base n'a été sélectionnée
mysql> INSERT   INTO   products   VALUES  (2001,   'PEC',   'Pencil   3B',   500,   0.52),
    ->                                            (NULL,   'PEC',   'Pencil   4B',   200,   0.62),
    ->                                            (NULL,   'PEC',   'Pencil   5B',   100,   0.73),
    ->                                            (NULL,   'PEC',   'Pencil   6B',   500,   0.47);
ERROR 1046 (3D000): Aucune base n'a été sélectionnée
mysql> SELECT   *   FROM   products;
ERROR 1046 (3D000): Aucune base n'a été sélectionnée
mysql> use southwind;
Database changed
mysql> drop table if exists suppliers;
Query OK, 0 rows affected, 1 warning (0.14 sec)

mysql> REATE    TABLE   suppliers   (
    ->                        supplierID       INT      UNSIGNED         NOT      NULL     AUTO_INCREMENT,
    ->                        name                      VARCHAR(30)          NOT    NULL    DEFAULT   '',
    ->                        phone                     CHAR(8)              NOT    NULL    DEFAULT   '',
    ->                        PRIMARY      KEY    (supplierID)
    ->                        );
ERROR 1064 (42000): Erreur de syntaxe près de 'REATE      TABLE     suppliers    (
                         supplierID ' à la ligne 1
mysql> REATE TABLE suppliers (
    ->          supplierID  INT UNSIGNED   NOT NULL AUTO_INCREMENT,
    ->          name                 VARCHAR(30)   NOT NULL DEFAULT '',
    ->          phone                CHAR(8)       NOT NULL DEFAULT '',
    ->          PRIMARY KEY (supplierID)
    ->          );
ERROR 1064 (42000): Erreur de syntaxe près de 'REATE TABLE suppliers (
          supplierID  INT UNSIGNED  NOT NULL AUTO_INCREME' à la ligne 1
mysql> CREATE TABLE suppliers (
    ->          supplierID  INT UNSIGNED   NOT NULL AUTO_INCREMENT,
    ->          name                 VARCHAR(30)   NOT NULL DEFAULT '',
    ->          phone                CHAR(8)       NOT NULL DEFAULT '',
    ->          PRIMARY KEY (supplierID)
    ->          );
Query OK, 0 rows affected (0.63 sec)

mysql> DESCRIBE suppliers;
+------------+------------------+------+-----+---------+----------------+
| Field      | Type             | Null | Key | Default | Extra          |
+------------+------------------+------+-----+---------+----------------+
| supplierID | int(10) unsigned | NO   | PRI | NULL    | auto_increment |
| name       | varchar(30)      | NO   |     |         |                |
| phone      | char(8)          | NO   |     |         |                |
+------------+------------------+------+-----+---------+----------------+
3 rows in set (0.08 sec)

mysql>
```

```
Query OK, 0 rows affected (0.63 sec)

mysql> DESCRIBE suppliers;
+------------+------------------+------+-----+---------+----------------+
| Field      | Type             | Null | Key | Default | Extra          |
+------------+------------------+------+-----+---------+----------------+
| supplierID | int(10) unsigned | NO   | PRI | NULL    | auto_increment |
| name       | varchar(30)      | NO   |     |         |                |
| phone      | char(8)          | NO   |     |         |                |
+------------+------------------+------+-----+---------+----------------+
3 rows in set (0.08 sec)

mysql> INSERT INTO suppliers VALUE
    ->          (501, 'ABC Traders', '88881111'),
    ->          (502, 'XYZ Company', '88882222'),
    ->          (503, 'QQ Corp', '88883333');
Query OK, 3 rows affected (0.14 sec)
Enregistrements: 3  Doublons: 0  Avertissements: 0

mysql>
mysql> select * from suppliers;
+------------+-------------+----------+
| supplierID | name        | phone    |
+------------+-------------+----------+
|        501 | ABC Traders | 88881111 |
|        502 | XYZ Company | 88882222 |
|        503 | QQ Corp     | 88883333 |
+------------+-------------+----------+
3 rows in set (0.00 sec)

mysql> ALTER TABLE products
    ->          ADD COLUMN supplierID INT UNSIGNED NOT NULL;
Query OK, 0 rows affected (0.90 sec)
Enregistrements: 0  Doublons: 0  Avertissements: 0

mysql> describe products;
+-------------+------------------+------+-----+----------+----------------+
| Field       | Type             | Null | Key | Default  | Extra          |
+-------------+------------------+------+-----+----------+----------------+
| productID   | int(10) unsigned | NO   | PRI | NULL     | auto_increment |
| productCode | char(3)          | NO   |     |          |                |
| name        | varchar(30)      | NO   |     |          |                |
| quantity    | int(10) unsigned | NO   |     | 0        |                |
| price       | decimal(7,2)     | NO   |     | 99999.99 |                |
| supplierID  | int(10) unsigned | NO   |     | NULL     |                |
+-------------+------------------+------+-----+----------+----------------+
6 rows in set (0.01 sec)

mysql> UPDATE products SET supplierID = 501;
Query OK, 8 rows affected (0.03 sec)
Enregistrements correspondants: 8  Modifiés: 8  Warnings: 0

mysql> ALTER TABLE products
    ->          ADD FOREIGN KEY (supplierID) REFERENCES suppliers (supplierID);
Query OK, 8 rows affected (1.33 sec)
Enregistrements: 8  Doublons: 0  Avertissements: 0

mysql>
```

```
Query OK, 0 rows affected (0.90 sec)
Enregistrements: 0  Doublons: 0  Avertissements: 0

mysql> describe products;
+-------------+------------------+------+-----+----------+----------------+
| Field       | Type             | Null | Key | Default  | Extra          |
+-------------+------------------+------+-----+----------+----------------+
| productID   | int(10) unsigned | NO   | PRI | NULL     | auto_increment |
| productCode | char(3)          | NO   |     |          |                |
| name        | varchar(30)      | NO   |     |          |                |
| quantity    | int(10) unsigned | NO   |     | 0        |                |
| price       | decimal(7,2)     | NO   |     | 99999.99 |                |
| supplierID  | int(10) unsigned | NO   |     | NULL     |                |
+-------------+------------------+------+-----+----------+----------------+
6 rows in set (0.01 sec)

mysql> UPDATE products SET supplierID = 501;
Query OK, 8 rows affected (0.03 sec)
Enregistrements correspondants: 8  Modifièrs: 8  Warnings: 0

mysql> ALTER TABLE products
    ->        ADD FOREIGN KEY (supplierID) REFERENCES suppliers (supplierID);
Query OK, 8 rows affected (1.33 sec)
Enregistrements: 8  Doublons: 0  Avertissements: 0

mysql> describe products;
+-------------+------------------+------+-----+----------+----------------+
| Field       | Type             | Null | Key | Default  | Extra          |
+-------------+------------------+------+-----+----------+----------------+
| productID   | int(10) unsigned | NO   | PRI | NULL     | auto_increment |
| productCode | char(3)          | NO   |     |          |                |
| name        | varchar(30)      | NO   |     |          |                |
| quantity    | int(10) unsigned | NO   |     | 0        |                |
| price       | decimal(7,2)     | NO   |     | 99999.99 |                |
| supplierID  | int(10) unsigned | NO   | MUL | NULL     |                |
+-------------+------------------+------+-----+----------+----------------+
6 rows in set (0.03 sec)

mysql> UPDATE products SET supplierID = 502 WHERE productID  = 2004;
Query OK, 0 rows affected (0.00 sec)
Enregistrements correspondants: 0  Modifièrs: 0  Warnings: 0

mysql> select * from products;
+-----------+-------------+----------+----------+-------+------------+
| productID | productCode | name     | quantity | price | supplierID |
+-----------+-------------+----------+----------+-------+------------+
|         1 | PEC         | Pencil"3B |     500 |  0.52 |        501 |
|         2 | PEC         | Pencil"4B |     200 |  0.62 |        501 |
|         3 | PEC         | Pencil"5B |     100 |  0.73 |        501 |
|         4 | PEC         | Pencil"6B |     500 |  0.47 |        501 |
|         8 | PEC         | Pencil"3B |     500 |  0.52 |        501 |
|         9 | PEC         | Pencil"4B |     200 |  0.62 |        501 |
|        10 | PEC         | Pencil"5B |     100 |  0.73 |        501 |
|        11 | PEC         | Pencil"6B |     500 |  0.47 |        501 |
+-----------+-------------+----------+----------+-------+------------+
8 rows in set (0.00 sec)

mysql>
```

```
8 rows in set (0.03 sec)

mysql> UPDATE products SET supplierID = 502 WHERE productID  = 2004;
Query OK, 0 rows affected (0.00 sec)
Enregistrements correspondants: 0  Modifièrs: 0  Warnings: 0

mysql> select * from products;
+-----------+-------------+----------+----------+-------+------------+
| productID | productCode | name     | quantity | price | supplierID |
+-----------+-------------+----------+----------+-------+------------+
|         1 | PEC         | Pencil"3B |     500 |  0.52 |        501 |
|         2 | PEC         | Pencil"4B |     200 |  0.62 |        501 |
|         3 | PEC         | Pencil"5B |     100 |  0.73 |        501 |
|         4 | PEC         | Pencil"6B |     500 |  0.47 |        501 |
|         8 | PEC         | Pencil"3B |     500 |  0.52 |        501 |
|         9 | PEC         | Pencil"4B |     200 |  0.62 |        501 |
|        10 | PEC         | Pencil"5B |     100 |  0.73 |        501 |
|        11 | PEC         | Pencil"6B |     500 |  0.47 |        501 |
+-----------+-------------+----------+----------+-------+------------+
8 rows in set (0.00 sec)

mysql> SELECT products.name, price, suppliers.name
    ->        FROM products
    ->        JOIN suppliers ON products.supplierID = suppliers.supplierID
    ->        WHERE price < 0.6;
+-----------+-------+-------------+
| name      | price | name        |
+-----------+-------+-------------+
| Pencil"3B |  0.52 | ABC Traders |
| Pencil"6B |  0.47 | ABC Traders |
| Pencil"3B |  0.52 | ABC Traders |
| Pencil"6B |  0.47 | ABC Traders |
+-----------+-------+-------------+
4 rows in set (0.03 sec)

mysql> "SELECT products.name, price, suppliers.name
    ">        FROM products, suppliers
    ">        WHERE products.supplierID = suppliers.supplierID
    ">            AND price < 0.6;
    ">
```