```
mysql> create database UTU;
Query OK, 1 row affected (0.11 sec)

mysql>
mysql> use UTU;
Database changed
mysql>
mysql> create table tblDealer(
    -> DCODE int primary key,
    -> DNAME varchar(50) not null);
Query OK, 0 rows affected (0.44 sec)

mysql>
mysql> desc tblDealer;
+-------+-------------+------+-----+---------+-------+
| Field | Type        | Null | Key | Default | Extra |
+-------+-------------+------+-----+---------+-------+
| DCODE | int(11)     | NO   | PRI | NULL    |       |
| DNAME | varchar(50) | NO   |     | NULL    |       |
+-------+-------------+------+-----+---------+-------+
2 rows in set (0.06 sec)

mysql>
mysql> insert into tblDealer values (101,'Reliable
Stationers');
Query OK, 1 row affected (0.05 sec)

mysql> insert into tblDealer values (102,'Classic Plastics');
Query OK, 1 row affected (0.13 sec)

mysql> insert into tblDealer values (103,'Clear Deals');
Query OK, 1 row affected (0.10 sec)

mysql> insert into tblDealer values (104,'Krishna Cosmetik');
Query OK, 1 row affected (0.06 sec)

mysql> insert into tblDealer values (105,'Surbhi Collection');
Query OK, 1 row affected (0.04 sec)

mysql>
mysql> select*from tblDealer;
+-------+--------------------+
| DCODE | DNAME              |
+-------+--------------------+
|   101 | Reliable Stationers |
|   102 | Classic Plastics   |
|   103 | Clear Deals        |
|   104 | Krishna Cosmetik   |
|   105 | Surbhi Collection  |
+-------+--------------------+
5 rows in set (0.00 sec)

mysql>
mysql> create table tblItem(
    -> ID varchar (15) primary key,
    -> NAME varchar (25) not null,
    -> MANUFACTURER varchar (20) not null,
```
1

```
      -> PRICE float(6,2) not null,
      -> QTY decimal not null,
      -> STOCKDATE date not null,
      -> DCODE int references tblDealer (DCODE));
Query OK, 0 rows affected (0.45 sec)

mysql>
mysql> desc tblItem;
+--------------+--------------+------+-----+---------+-------
+
| Field        | Type         | Null | Key | Default | Extra
|
+--------------+--------------+------+-----+---------+-------
+
| ID           | varchar(15)  | NO   | PRI | NULL    |
|
| NAME         | varchar(25)  | NO   |     | NULL    |
|
| MANUFACTURER | varchar(20)  | NO   |     | NULL    |
|
| PRICE        | float(6,2)   | NO   |     | NULL    |
|
| QTY          | decimal(10,0)| NO   |     | NULL    |
|
| STOCKDATE    | date         | NO   |     | NULL    |
|
| DCODE        | int(11)      | YES  |     | NULL    |
|
+--------------+--------------+------+-----+---------+-------
+
7 rows in set (0.04 sec)

mysql>
mysql> insert into tblItem values ('TP01','Talcom
Powder','Persona',40,45,'18-02-11',104);
Query OK, 1 row affected (0.05 sec)

mysql> insert into tblItem values ('FW05','Face
Wash','Attitude',45,55,'18-04-15',105);
Query OK, 1 row affected (0.07 sec)

mysql> insert into tblItem values ('BS01','Bath
Soap','Persona',55,80,'18-02-11',104);
Query OK, 1 row affected (0.05 sec)

mysql> insert into tblItem values
('SH06','Shampoo','Patanjali',12,50,'17-01-05',105);
Query OK, 1 row affected (0.05 sec)

mysql> insert into tblItem values ('FW12','Face
Wash','Loreal',95,45,'16-01-05',105);
Query OK, 1 row affected (0.05 sec)

mysql> insert into tblItem values ('S5005','Ball Pen
0.5','Nataraj Classic',16,100,'10-03-31',102);
Query OK, 1 row affected (0.06 sec)
```

```
mysql> insert into tblItem values ('S5003','Ball Pen
0.25','Nataraj Classic',20,150,'10-01-01',102);
Query OK, 1 row affected (0.10 sec)

mysql> insert into tblItem values ('S5002','Gel Pen
Premium','Pilot Juice',14,125,'10-02-14',101);
Query OK, 1 row affected (0.06 sec)

mysql> insert into tblItem values ('S5006','Gel Pen
Classic','Pilot Juice',22,200,'10-01-01',101);
Query OK, 1 row affected (0.05 sec)

mysql> insert into tblItem values ('S5001','Eraser
Small','Apsara',15,210,'09-03-19',102);
Query OK, 1 row affected (0.07 sec)

mysql> insert into tblItem values ('S5004','Eraser
Big','Apsara',10,60,'09-12-12',102);
Query OK, 1 row affected (0.07 sec)

mysql> insert into tblItem values ('S5009','Sharper
Classic','Nataraj Classic',18,160,'09-01-23',103);
Query OK, 1 row affected (0.07 sec)

mysql>
mysql> select * from tblItem;
+-------+----------------+----------------+-------+-----+---
---------+-------+
| ID    | NAME           | MANUFACTURER   | PRICE | QTY |
STOCKDATE | DCODE |
+-------+----------------+----------------+-------+-----+---
---------+-------+
| BS01  | Bath Soap      | Persona        | 55.00 |  80 |
2018-02-11 |   104 |
| FW05  | Face Wash      | Attitude       | 45.00 |  55 |
2018-04-15 |   105 |
| FW12  | Face Wash      | Loreal         | 95.00 |  45 |
2016-01-05 |   105 |
| S5001 | Eraser Small   | Apsara         | 15.00 | 210 |
2009-03-19 |   102 |
| S5002 | Gel Pen Premium | Pilot Juice   | 14.00 | 125 |
2010-02-14 |   101 |
| S5003 | Ball Pen 0.25  | Nataraj Classic | 20.00 | 150 |
2010-01-01 |   102 |
| S5004 | Eraser Big     | Apsara         | 10.00 |  60 |
2009-12-12 |   102 |
| S5005 | Ball Pen 0.5   | Nataraj Classic | 16.00 | 100 |
2010-03-31 |   102 |
| S5006 | Gel Pen Classic | Pilot Juice   | 22.00 | 200 |
2010-01-01 |   101 |
| S5009 | Sharper Classic | Nataraj Classic | 18.00 | 160 |
2009-01-23 |   103 |
| SH06  | Shampoo        | Patanjali      | 12.00 |  50 |
2017-01-05 |   105 |
| TP01  | Talcom Powder  | Persona        | 40.00 |  45 |
2018-02-11 |   104 |
+-------+----------------+----------------+-------+-----+---
```

```
---------+-------+
12 rows in set (0.00 sec)

mysql>
mysql> create table tblClient(
    -> ID int primary key,
    -> FNAME varchar(20) not null,
    -> CITY varchar(15) not null,
    -> ITEMID varchar(15) references tblItem(ID));
Query OK, 0 rows affected (0.36 sec)

mysql>
mysql> desc tblClient;
+--------+-------------+------+-----+---------+-------+
| Field  | Type        | Null | Key | Default | Extra |
+--------+-------------+------+-----+---------+-------+
| ID     | int(11)     | NO   | PRI | NULL    |       |
| FNAME  | varchar(20) | NO   |     | NULL    |       |
| CITY   | varchar(15) | NO   |     | NULL    |       |
| ITEMID | varchar(15) | YES  |     | NULL    |       |
+--------+-------------+------+-----+---------+-------+
4 rows in set (0.01 sec)

mysql>
mysql> insert into tblClient(ID,FNAME,CITY,ITEMID) values
(01,'Krishna','Surat','FW05');
Query OK, 1 row affected (0.12 sec)

mysql> insert into tblClient(ID,FNAME,CITY,ITEMID) values
(06,'Nayan','Navsari','s5009');
Query OK, 1 row affected (0.12 sec)

mysql> insert into tblClient(ID,FNAME,CITY,ITEMID) values
(12,'Aesha','Surat','SH06');
Query OK, 1 row affected (0.09 sec)

mysql> insert into tblClient(ID,FNAME,CITY,ITEMID) values
(15,'Krunal','Navsari','S5005');
Query OK, 1 row affected (0.07 sec)

mysql> insert into tblClient(ID,FNAME,CITY,ITEMID) values
(16,'Dhruvin','Vapi','TP01');
Query OK, 1 row affected (0.06 sec)

mysql> insert into tblClient(ID,FNAME,CITY,ITEMID) values
(20,'Dhvani','Bardoli','BS01');
Query OK, 1 row affected (0.06 sec)

mysql> insert into tblClient(ID,FNAME,CITY,ITEMID) values
(24,'Drashti','Valsad','FW12');
Query OK, 1 row affected (0.06 sec)

mysql> insert into tblClient(ID,FNAME,CITY,ITEMID) values
(25,'Manan','Surat','S5003');
Query OK, 1 row affected (0.07 sec)

mysql> insert into tblClient(ID,FNAME,CITY,ITEMID) values
```

```
(30,'Shyam','Bardoli','FW05');
Query OK, 1 row affected (0.06 sec)

mysql> insert into tblClient(ID,FNAME,CITY,ITEMID) values
(31,'Bhavik','Surat','FW12');
Query OK, 1 row affected (0.06 sec)

mysql> insert into tblClient(ID,FNAME,CITY,ITEMID) values
(35,'Naman','Mumbai','S5009');
Query OK, 1 row affected (0.05 sec)

mysql> insert into tblClient(ID,FNAME,CITY,ITEMID) values
(36,'Urja','Baroda','S5003');
Query OK, 1 row affected (0.11 sec)

mysql> insert into tblClient(ID,FNAME,CITY,ITEMID) values
(42,'Raj','Valsad','BS01');
Query OK, 1 row affected (0.14 sec)

mysql> insert into tblClient(ID,FNAME,CITY,ITEMID) values
(43,'Kush','Baroda','S5006');
Query OK, 1 row affected (0.10 sec)

mysql> insert into tblClient(ID,FNAME,CITY,ITEMID) values
(45,'Shrey','Anand','TP01');
Query OK, 1 row affected (0.07 sec)

mysql>
mysql> select*from tblClient;
+----+---------+---------+--------+
| ID | FNAME   | CITY    | ITEMID |
+----+---------+---------+--------+
|  1 | Krishna | Surat   | FW05   |
|  6 | Nayan   | Navsari | s5009  |
| 12 | Aesha   | Surat   | SH06   |
| 15 | Krunal  | Navsari | S5005  |
| 16 | Dhruvin | Vapi    | TP01   |
| 20 | Dhvani  | Bardoli | BS01   |
| 24 | Drashti | Valsad  | FW12   |
| 25 | Manan   | Surat   | S5003  |
| 30 | Shyam   | Bardoli | FW05   |
| 31 | Bhavik  | Surat   | FW12   |
| 35 | Naman   | Mumbai  | S5009  |
| 36 | Urja    | Baroda  | S5003  |
| 42 | Raj     | Valsad  | BS01   |
| 43 | Kush    | Baroda  | S5006  |
| 45 | Shrey   | Anand   | TP01   |
+----+---------+---------+--------+
15 rows in set (0.00 sec)

mysql>
mysql> select NAME,PRICE,MANUFACTURER from tblItem where
MANUFACTURER='Persona';
+--------------+-------+--------------+
| NAME         | PRICE | MANUFACTURER |
+--------------+-------+--------------+
| Bath Soap    | 55.00 | Persona      |
```

5

```
| Talcom Powder | 40.00 | Persona      |
+--------------+-------+--------------+
2 rows in set (0.00 sec)

mysql>
mysql> select count(distinct(MANUFACTURER)) from tblItem;
+------------------------------+
| count(distinct(MANUFACTURER)) |
+------------------------------+
|                            7 |
+------------------------------+
1 row in set (0.00 sec)

mysql> select*from tblClient where FNAME like('Dh%');
+----+---------+---------+--------+
| ID | FNAME   | CITY    | ITEMID |
+----+---------+---------+--------+
| 16 | Dhruvin | Vapi    | TP01   |
| 20 | Dhvani  | Bardoli | BS01   |
+----+---------+---------+--------+
2 rows in set (0.00 sec)

mysql>
mysql> select*from tblItem where NAME in('Ball Pen 0.5','Ball
Pen 0.25','Gel Pen Premium','Gel Pen Classic');
+-------+----------------+----------------+-------+-----+---
---------+-------+
| ID    | NAME           | MANUFACTURER   | PRICE | QTY |
STOCKDATE  | DCODE |
+-------+----------------+----------------+-------+-----+---
---------+-------+
| S5002 | Gel Pen Premium | Pilot Juice    | 14.00 | 125 |
2010-02-14 |   101 |
| S5003 | Ball Pen 0.25   | Nataraj Classic | 20.00 | 150 |
2010-01-01 |   102 |
| S5005 | Ball Pen 0.5    | Nataraj Classic | 16.00 | 100 |
2010-03-31 |   102 |
| S5006 | Gel Pen Classic | Pilot Juice    | 22.00 | 200 |
2010-01-01 |   101 |
+-------+----------------+----------------+-------+-----+---
---------+-------+
4 rows in set (0.00 sec)

mysql>
mysql> select NAME,PRICE,QTY from tblItem where PRICE>80;
+-----------+-------+-----+
| NAME      | PRICE | QTY |
+-----------+-------+-----+
| Face Wash | 95.00 |  45 |
+-----------+-------+-----+
1 row in set (0.00 sec)

mysql>
mysql> select NAME,PRICE from tblItem where PRICE<=20;
+----------------+-------+
| NAME           | PRICE |
+----------------+-------+
```

```
| Eraser Small    | 15.00 |
| Gel Pen Premium | 14.00 |
| Ball Pen 0.25   | 20.00 |
| Eraser Big      | 10.00 |
| Ball Pen 0.5    | 16.00 |
| Sharper Classic | 18.00 |
| Shampoo         | 12.00 |
+-----------------+-------+
7 rows in set (0.00 sec)

mysql>
mysql> select*from tblItem where DCODE=102 or QTY>100;
+-------+----------------+----------------+-------+-----+---
---------+-------+
| ID    | NAME           | MANUFACTURER   | PRICE | QTY |
STOCKDATE  | DCODE |
+-------+----------------+----------------+-------+-----+---
---------+-------+
| S5001 | Eraser Small   | Apsara         | 15.00 | 210 |
2009-03-19 |   102 |
| S5002 | Gel Pen Premium | Pilot Juice   | 14.00 | 125 |
2010-02-14 |   101 |
| S5003 | Ball Pen 0.25  | Nataraj Classic | 20.00 | 150 |
2010-01-01 |   102 |
| S5004 | Eraser Big     | Apsara         | 10.00 |  60 |
2009-12-12 |   102 |
| S5005 | Ball Pen 0.5   | Nataraj Classic | 16.00 | 100 |
2010-03-31 |   102 |
| S5006 | Gel Pen Classic | Pilot Juice   | 22.00 | 200 |
2010-01-01 |   101 |
| S5009 | Sharper Classic | Nataraj Classic | 18.00 | 160 |
2009-01-23 |   103 |
+-------+----------------+----------------+-------+-----+---
---------+-------+
7 rows in set (0.00 sec)

mysql>
mysql> select*from tblItem where DCODE=102 and QTY>100;
+-------+--------------+----------------+-------+-----+-----
-------+-------+
| ID    | NAME         | MANUFACTURER   | PRICE | QTY |
STOCKDATE  | DCODE |
+-------+--------------+----------------+-------+-----+-----
-------+-------+
| S5001 | Eraser Small | Apsara         | 15.00 | 210 |
2009-03-19 |   102 |
| S5003 | Ball Pen 0.25 | Nataraj Classic | 20.00 | 150 |
2010-01-01 |   102 |
+-------+--------------+----------------+-------+-----+-----
-------+-------+
2 rows in set (0.00 sec)

mysql>
mysql> select * from tblItem where QTY between 50 and 100;
+-------+--------------+----------------+-------+-----+------
------+-------+
| ID    | NAME         | MANUFACTURER   | PRICE | QTY |
```

```
STOCKDATE  | DCODE |
+------+-------------+---------------+-------+-----+------------+-------+
| BS01 | Bath Soap   | Persona       | 55.00 | 80 |
2018-02-11 |   104 |
| FW05 | Face Wash   | Attitude      | 45.00 | 55 |
2018-04-15 |   105 |
| S5004 | Eraser Big | Apsara        | 10.00 | 60 |
2009-12-12 |   102 |
| S5005 | Ball Pen 0.5 | Nataraj Classic | 16.00 | 100 |
2010-03-31 |   102 |
| SH06 | Shampoo     | Patanjali     | 12.00 | 50 |
2017-01-05 |   105 |
+------+-------------+---------------+-------+-----+------------+-------+
5 rows in set (0.00 sec)

mysql>
mysql> update tblItem set PRICE=PRICE+10;
Query OK, 12 rows affected (0.26 sec)
Rows matched: 12  Changed: 12  Warnings: 0

mysql>
mysql> select*from tblItem;
+------+---------------+---------------+--------+-----+------------+-------+
| ID   | NAME          | MANUFACTURER  | PRICE  | QTY |
STOCKDATE  | DCODE |
+------+---------------+---------------+--------+-----+------------+-------+
| BS01 | Bath Soap     | Persona       | 65.00 | 80 |
2018-02-11 |   104 |
| FW05 | Face Wash     | Attitude      | 55.00 | 55 |
2018-04-15 |   105 |
| FW12 | Face Wash     | Loreal        | 105.00 | 45 |
2016-01-05 |   105 |
| S5001 | Eraser Small | Apsara        | 25.00 | 210 |
2009-03-19 |   102 |
| S5002 | Gel Pen Premium | Pilot Juice | 24.00 | 125 |
2010-02-14 |   101 |
| S5003 | Ball Pen 0.25 | Nataraj Classic | 30.00 | 150 |
2010-01-01 |   102 |
| S5004 | Eraser Big    | Apsara        | 20.00 | 60 |
2009-12-12 |   102 |
| S5005 | Ball Pen 0.5  | Nataraj Classic | 26.00 | 100 |
2010-03-31 |   102 |
| S5006 | Gel Pen Classic | Pilot Juice | 32.00 | 200 |
2010-01-01 |   101 |
| S5009 | Sharper Classic | Nataraj Classic | 28.00 | 160 |
2009-01-23 |   103 |
| SH06 | Shampoo       | Patanjali     | 22.00 | 50 |
2017-01-05 |   105 |
| TP01 | Talcom Powder | Persona       | 50.00 | 45 |
2018-02-11 |   104 |
+------+---------------+---------------+--------+-----+------------+-------+
12 rows in set (0.00 sec)
```

```
mysql>
mysql> update tblItem set QTY=QTY-30;
Query OK, 12 rows affected (0.06 sec)
Rows matched: 12  Changed: 12  Warnings: 0

mysql>
mysql> select*from tblItem;
+-------+---------------+---------------+--------+-----+--
----------+-------+
| ID    | NAME          | MANUFACTURER  | PRICE  | QTY |
STOCKDATE  | DCODE |
+-------+---------------+---------------+--------+-----+--
----------+-------+
| BS01  | Bath Soap     | Persona       |  65.00 |  50 |
2018-02-11 |   104 |
| FW05  | Face Wash     | Attitude      |  55.00 |  25 |
2018-04-15 |   105 |
| FW12  | Face Wash     | Loreal        | 105.00 |  15 |
2016-01-05 |   105 |
| S5001 | Eraser Small  | Apsara        |  25.00 | 180 |
2009-03-19 |   102 |
| S5002 | Gel Pen Premium | Pilot Juice |  24.00 |  95 |
2010-02-14 |   101 |
| S5003 | Ball Pen 0.25 | Nataraj Classic |  30.00 | 120 |
2010-01-01 |   102 |
| S5004 | Eraser Big    | Apsara        |  20.00 |  30 |
2009-12-12 |   102 |
| S5005 | Ball Pen 0.5  | Nataraj Classic |  26.00 |  70 |
2010-03-31 |   102 |
| S5006 | Gel Pen Classic | Pilot Juice |  32.00 | 170 |
2010-01-01 |   101 |
| S5009 | Sharper Classic | Nataraj Classic |  28.00 | 130 |
2009-01-23 |   103 |
| SH06  | Shampoo       | Patanjali     |  22.00 |  20 |
2017-01-05 |   105 |
| TP01  | Talcom Powder | Persona       |  50.00 |  15 |
2018-02-11 |   104 |
+-------+---------------+---------------+--------+-----+--
----------+-------+
12 rows in set (0.00 sec)

mysql>
mysql> update tblItem set PRICE=PRICE+(PRICE*15)/100;
Query OK, 12 rows affected (0.07 sec)
Rows matched: 12  Changed: 12  Warnings: 0

mysql>
mysql> select*from tblItem;
+-------+---------------+---------------+--------+-----+--
----------+-------+
| ID    | NAME          | MANUFACTURER  | PRICE  | QTY |
STOCKDATE  | DCODE |
+-------+---------------+---------------+--------+-----+--
----------+-------+
| BS01  | Bath Soap     | Persona       |  74.75 |  50 |
2018-02-11 |   104 |
```

```
| FW05  | Face Wash       | Attitude        |  63.25 |  25 |
2018-04-15 |  105 |
| FW12  | Face Wash       | Loreal          | 120.75 |  15 |
2016-01-05 |  105 |
| S5001 | Eraser Small    | Apsara          |  28.75 | 180 |
2009-03-19 |  102 |
| S5002 | Gel Pen Premium | Pilot Juice     |  27.60 |  95 |
2010-02-14 |  101 |
| S5003 | Ball Pen 0.25   | Nataraj Classic |  34.50 | 120 |
2010-01-01 |  102 |
| S5004 | Eraser Big      | Apsara          |  23.00 |  30 |
2009-12-12 |  102 |
| S5005 | Ball Pen 0.5    | Nataraj Classic |  29.90 |  70 |
2010-03-31 |  102 |
| S5006 | Gel Pen Classic | Pilot Juice     |  36.80 | 170 |
2010-01-01 |  101 |
| S5009 | Sharper Classic | Nataraj Classic |  32.20 | 130 |
2009-01-23 |  103 |
| SH06  | Shampoo         | Patanjali       |  25.30 |  20 |
2017-01-05 |  105 |
| TP01  | Talcom Powder   | Persona         |  57.50 |  15 |
2018-02-11 |  104 |
+-------+---------------+-----------------+--------+-----+--
----------+-------+
12 rows in set (0.00 sec)

mysql>
mysql> select max(PRICE),min(PRICE) from tblItem;
+-----------+-----------+
| max(PRICE) | min(PRICE) |
+-----------+-----------+
|    120.75 |     23.00 |
+-----------+-----------+
1 row in set (0.00 sec)

mysql>
mysql> select avg(PRICE) from tblItem;
+------------+
| avg(PRICE) |
+------------+
|  46.191667 |
+------------+
1 row in set (0.00 sec)

mysql>
mysql> select sum(PRICE),sum(PRICE)/12 from tblItem;
+-----------+--------------+
| sum(PRICE) | sum(PRICE)/12 |
+-----------+--------------+
|    554.30 |     46.191667 |
+-----------+--------------+
1 row in set (0.00 sec)

mysql>
mysql> select concat(NAME,'Price is',' ',PRICE)from tblItem;
+-----------------------------------+
| concat(NAME,'Price is',' ',PRICE) |
```

```
+--------------------------------+
| Bath SoapPrice is 74.75        |
| Face WashPrice is 63.25        |
| Face WashPrice is 120.75       |
| Eraser SmallPrice is 28.75     |
| Gel Pen PremiumPrice is 27.60  |
| Ball Pen 0.25Price is 34.50    |
| Eraser BigPrice is 23.00       |
| Ball Pen 0.5Price is 29.90     |
| Gel Pen ClassicPrice is 36.80  |
| Sharper ClassicPrice is 32.20  |
| ShampooPrice is 25.30          |
| Talcom PowderPrice is 57.50    |
+--------------------------------+
12 rows in set (0.00 sec)

mysql>
mysql> select concat(NAME,'','stoke date is',' ',STOCKDATE)
from tblItem;
+------------------------------------------------+
| concat(NAME,'','stoke date is',' ',STOCKDATE)  |
+------------------------------------------------+
| Bath Soapstoke date is 2018-02-11              |
| Face Washstoke date is 2018-04-15              |
| Face Washstoke date is 2016-01-05              |
| Eraser Smallstoke date is 2009-03-19           |
| Gel Pen Premiumstoke date is 2010-02-14        |
| Ball Pen 0.25stoke date is 2010-01-01          |
| Eraser Bigstoke date is 2009-12-12             |
| Ball Pen 0.5stoke date is 2010-03-31           |
| Gel Pen Classicstoke date is 2010-01-01        |
| Sharper Classicstoke date is 2009-01-23        |
| Shampoostoke date is 2017-01-05                |
| Talcom Powderstoke date is 2018-02-11          |
+------------------------------------------------+
12 rows in set (0.00 sec)

mysql>
mysql> select*from tblClient order by ITEMID;
+----+---------+---------+--------+
| ID | FNAME   | CITY    | ITEMID |
+----+---------+---------+--------+
| 20 | Dhvani  | Bardoli | BS01   |
| 42 | Raj     | Valsad  | BS01   |
|  1 | Krishna | Surat   | FW05   |
| 30 | Shyam   | Bardoli | FW05   |
| 24 | Drashti | Valsad  | FW12   |
| 31 | Bhavik  | Surat   | FW12   |
| 25 | Manan   | Surat   | S5003  |
| 36 | Urja    | Baroda  | S5003  |
| 15 | Krunal  | Navsari | S5005  |
| 43 | Kush    | Baroda  | S5006  |
|  6 | Nayan   | Navsari | s5009  |
| 35 | Naman   | Mumbai  | S5009  |
| 12 | Aesha   | Surat   | SH06   |
| 16 | Dhruvin | Vapi    | TP01   |
| 45 | Shrey   | Anand   | TP01   |
```

```
+----+--------+--------+-------+
15 rows in set (0.00 sec)

mysql>
mysql> select NAME from tblItem order by STOCKDATE desc;
+----------------+
| NAME           |
+----------------+
| Face Wash      |
| Bath Soap      |
| Talcom Powder  |
| Shampoo        |
| Face Wash      |
| Ball Pen 0.5   |
| Gel Pen Premium |
| Ball Pen 0.25  |
| Gel Pen Classic |
| Eraser Big     |
| Eraser Small   |
| Sharper Classic |
+----------------+
12 rows in set (0.00 sec)

mysql>
mysql> select FNAME,CITY from tblClient where CITY not
in('Surat','Vapi','Valsad');
+--------+---------+
| FNAME  | CITY    |
+--------+---------+
| Nayan  | Navsari |
| Krunal | Navsari |
| Dhvani | Bardoli |
| Shyam  | Bardoli |
| Naman  | Mumbai  |
| Urja   | Baroda  |
| Kush   | Baroda  |
| Shrey  | Anand   |
+--------+---------+
8 rows in set (0.00 sec)

mysql>
mysql> select upper(FNAME),upper(CITY),upper(ITEMID) from
tblClient;
+--------------+-------------+--------------+
| upper(FNAME) | upper(CITY) | upper(ITEMID) |
+--------------+-------------+--------------+
| KRISHNA      | SURAT       | FW05         |
| NAYAN        | NAVSARI     | S5009        |
| AESHA        | SURAT       | SH06         |
| KRUNAL       | NAVSARI     | S5005        |
| DHRUVIN      | VAPI        | TP01         |
| DHVANI       | BARDOLI     | BS01         |
| DRASHTI      | VALSAD      | FW12         |
| MANAN        | SURAT       | S5003        |
| SHYAM        | BARDOLI     | FW05         |
| BHAVIK       | SURAT       | FW12         |
| NAMAN        | MUMBAI      | S5009        |
```

```
| URJA          | BARODA      | S5003         |
| RAJ           | VALSAD      | BS01          |
| KUSH          | BARODA      | S5006         |
| SHREY         | ANAND       | TP01          |
+-------------+------------+--------------+
15 rows in set (0.00 sec)

mysql>
mysql> select upper(NAME) from tblItem;
+----------------+
| upper(NAME)    |
+----------------+
| BATH SOAP      |
| FACE WASH      |
| FACE WASH      |
| ERASER SMALL   |
| GEL PEN PREMIUM |
| BALL PEN 0.25  |
| ERASER BIG     |
| BALL PEN 0.5   |
| GEL PEN CLASSIC |
| SHARPER CLASSIC |
| SHAMPOO        |
| TALCOM POWDER  |
+----------------+
12 rows in set (0.00 sec)

mysql>
mysql> select NAME,length(NAME) as NAME_LENGTH from tblItem;
+----------------+-------------+
| NAME           | NAME_LENGTH |
+----------------+-------------+
| Bath Soap      |           9 |
| Face Wash      |           9 |
| Face Wash      |           9 |
| Eraser Small   |          12 |
| Gel Pen Premium |          15 |
| Ball Pen 0.25  |          13 |
| Eraser Big     |          10 |
| Ball Pen 0.5   |          12 |
| Gel Pen Classic |          15 |
| Sharper Classic |          15 |
| Shampoo        |           7 |
| Talcom Powder  |          13 |
+----------------+-------------+
12 rows in set (0.00 sec)

mysql>
mysql> select lower(MANUFACTURER) from tblItem;
+--------------------+
| lower(MANUFACTURER) |
+--------------------+
| persona            |
| attitude           |
| loreal             |
| apsara             |
| pilot juice        |
```

```
| nataraj classic    |
| apsara             |
| nataraj classic    |
| pilot juice        |
| nataraj classic    |
| patanjali          |
| persona            |
+--------------------+
12 rows in set (0.00 sec)

mysql>
mysql> alter table tblClient add column GENDER char(1) after
FNAME;
Query OK, 0 rows affected (1.57 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql>
mysql> select*from tblClient;
+----+---------+--------+---------+--------+
| ID | FNAME   | GENDER | CITY    | ITEMID |
+----+---------+--------+---------+--------+
|  1 | Krishna | NULL   | Surat   | FW05   |
|  6 | Nayan   | NULL   | Navsari | s5009  |
| 12 | Aesha   | NULL   | Surat   | SH06   |
| 15 | Krunal  | NULL   | Navsari | S5005  |
| 16 | Dhruvin | NULL   | Vapi    | TP01   |
| 20 | Dhvani  | NULL   | Bardoli | BS01   |
| 24 | Drashti | NULL   | Valsad  | FW12   |
| 25 | Manan   | NULL   | Surat   | S5003  |
| 30 | Shyam   | NULL   | Bardoli | FW05   |
| 31 | Bhavik  | NULL   | Surat   | FW12   |
| 35 | Naman   | NULL   | Mumbai  | S5009  |
| 36 | Urja    | NULL   | Baroda  | S5003  |
| 42 | Raj     | NULL   | Valsad  | BS01   |
| 43 | Kush    | NULL   | Baroda  | S5006  |
| 45 | Shrey   | NULL   | Anand   | TP01   |
+----+---------+--------+---------+--------+
15 rows in set (0.00 sec)

mysql>
mysql> update tblClient set GENDER='F' where ID=01;
Query OK, 1 row affected (0.05 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update tblClient set GENDER='M' where ID=06;
Query OK, 1 row affected (0.08 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update tblClient set GENDER='F' where ID=12;
Query OK, 1 row affected (0.07 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update tblClient set GENDER='M' where ID=15;
Query OK, 1 row affected (0.09 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update tblClient set GENDER='M' where ID=16;
```

```
Query OK, 1 row affected (0.12 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update tblClient set GENDER='F' where ID=20;
Query OK, 1 row affected (0.15 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update tblClient set GENDER='F' where ID=24;
Query OK, 1 row affected (0.09 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update tblClient set GENDER='M' where ID=25;
Query OK, 1 row affected (0.09 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update tblClient set GENDER='M' where ID=30;
Query OK, 1 row affected (0.07 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update tblClient set GENDER='M' where ID=31;
Query OK, 1 row affected (0.07 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update tblClient set GENDER='M' where ID=35;
Query OK, 1 row affected (0.08 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update tblClient set GENDER='F' where ID=36;
Query OK, 1 row affected (0.07 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update tblClient set GENDER='M' where ID=42;
Query OK, 1 row affected (0.06 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update tblClient set GENDER='M' where ID=43;
Query OK, 1 row affected (0.07 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> update tblClient set GENDER='M' where ID=45;
Query OK, 1 row affected (0.07 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql>
mysql> select*from tblClient;
+----+---------+--------+---------+--------+
| ID | FNAME   | GENDER | CITY    | ITEMID |
+----+---------+--------+---------+--------+
|  1 | Krishna | F      | Surat   | FW05   |
|  6 | Nayan   | M      | Navsari | s5009  |
| 12 | Aesha   | F      | Surat   | SH06   |
| 15 | Krunal  | M      | Navsari | S5005  |
| 16 | Dhruvin | M      | Vapi    | TP01   |
| 20 | Dhvani  | F      | Bardoli | BS01   |
| 24 | Drashti | F      | Valsad  | FW12   |
| 25 | Manan   | M      | Surat   | S5003  |
| 30 | Shyam   | M      | Bardoli | FW05   |
```

```
| 31 | Bhavik   | M        | Surat    | FW12    |
| 35 | Naman    | M        | Mumbai   | S5009   |
| 36 | Urja     | F        | Baroda   | S5003   |
| 42 | Raj      | M        | Valsad   | BS01    |
| 43 | Kush     | M        | Baroda   | S5006   |
| 45 | Shrey    | M        | Anand    | TP01    |
+----+---------+--------+---------+--------+
15 rows in set (0.00 sec)

mysql>
mysql> select count(distinct(DCODE)) from tblItem;
+-----------------------+
| count(distinct(DCODE)) |
+-----------------------+
|                     5 |
+-----------------------+
1 row in set (0.00 sec)

mysql>
mysql> select trim(DNAME) from tblDealer;
+--------------------+
| trim(DNAME)        |
+--------------------+
| Reliable Stationers |
| Classic Plastics    |
| Clear Deals         |
| Krishna Cosmetik    |
| Surbhi Collection   |
+--------------------+
5 rows in set (0.00 sec)

mysql>
mysql> alter table tblDealer add column LOCATION varchar(15);
Query OK, 0 rows affected (0.29 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql>
mysql> select*from tblDealer;
+-------+--------------------+----------+
| DCODE | DNAME              | LOCATION |
+-------+--------------------+----------+
|   101 | Reliable Stationers | NULL     |
|   102 | Classic Plastics    | NULL     |
|   103 | Clear Deals         | NULL     |
|   104 | Krishna Cosmetik    | NULL     |
|   105 | Surbhi Collection   | NULL     |
+-------+--------------------+----------+
5 rows in set (0.00 sec)

mysql> update tblDealer set LOCATION='Mumbai'where
DNAME='Clear Deals';
Query OK, 1 row affected (0.10 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select*from tblDealer;
+-------+--------------------+----------+
| DCODE | DNAME              | LOCATION |
```

```
+-------+---------------------+----------+
|   101 | Reliable Stationers | NULL     |
|   102 | Classic Plastics    | NULL     |
|   103 | Clear Deals         | Mumbai   |
|   104 | Krishna Cosmetik    | NULL     |
|   105 | Surbhi Collection   | NULL     |
+-------+---------------------+----------+
5 rows in set (0.00 sec)

mysql>
mysql> select*from tblDealer where LOCATION is null;
+-------+---------------------+----------+
| DCODE | DNAME               | LOCATION |
+-------+---------------------+----------+
|   101 | Reliable Stationers | NULL     |
|   102 | Classic Plastics    | NULL     |
|   103 | Clear Deals         | NULL     |
|   104 | Krishna Cosmetik    | NULL     |
|   105 | Surbhi Collection   | NULL     |
+-------+---------------------+----------+
5 rows in set (0.00 sec)

mysql>
mysql> alter table tblDealer drop LOCATION;
Query OK, 0 rows affected (1.19 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql>
mysql> select*from tblDealer;
+-------+---------------------+
| DCODE | DNAME               |
+-------+---------------------+
|   101 | Reliable Stationers |
|   102 | Classic Plastics    |
|   103 | Clear Deals         |
|   104 | Krishna Cosmetik    |
|   105 | Surbhi Collection   |
+-------+---------------------+
5 rows in set (0.00 sec)

mysql>
mysql> select count(ID) as Total_Client,CITY from tblClient
group by city;
+--------------+---------+
| Total_Client | CITY    |
+--------------+---------+
|            4 | Surat   |
|            2 | Navsari |
|            1 | Vapi    |
|            2 | Bardoli |
|            2 | Valsad  |
|            1 | Mumbai  |
|            2 | Baroda  |
|            1 | Anand   |
+--------------+---------+
8 rows in set (0.00 sec)
```

```
mysql>
mysql> select count(ID) as Total_MaleClient,CITY from
tblClient where GENDER='M' group by city;
+------------------+---------+
| Total_MaleClient | CITY    |
+------------------+---------+
|                2 | Navsari |
|                1 | Vapi    |
|                2 | Surat   |
|                1 | Bardoli |
|                1 | Mumbai  |
|                1 | Valsad  |
|                1 | Baroda  |
|                1 | Anand   |
+------------------+---------+
8 rows in set (0.00 sec)

mysql>
mysql> select count(ID) as Total_Client,CITY from tblClient
where CITY='Mumbai'group by city;
+--------------+--------+
| Total_Client | CITY   |
+--------------+--------+
|            1 | Mumbai |
+--------------+--------+
1 row in set (0.00 sec)

mysql>
mysql> select count(NAME) as Toatl_Item,MANUFACTURER from
tblItem group by MANUFACTURER;
+------------+----------------+
| Toatl_Item | MANUFACTURER   |
+------------+----------------+
|          2 | Persona        |
|          1 | Attitude       |
|          1 | Loreal         |
|          2 | Apsara         |
|          2 | Pilot Juice    |
|          3 | Nataraj Classic |
|          1 | Patanjali      |
+------------+----------------+
7 rows in set (0.14 sec)

mysql>
mysql> select max(PRICE),DCODE from tblItem group by DCODE;
+------------+-------+
| max(PRICE) | DCODE |
+------------+-------+
|      74.75 |   104 |
|     120.75 |   105 |
|      34.50 |   102 |
|      36.80 |   101 |
|      32.20 |   103 |
+------------+-------+
5 rows in set (0.00 sec)

mysql>
```

18

```
mysql> select SUM(PRICE) from tblItem where
STOCKDATE='10-01-01';
+------------+
| SUM(PRICE) |
+------------+
|      71.30 |
+------------+
1 row in set (0.00 sec)

mysql>
mysql> select DATE_ADD(STOCKDATE,interval 2 month) from
tblItem;
+--------------------------------------+
| DATE_ADD(STOCKDATE,interval 2 month) |
+--------------------------------------+
| 2018-04-11                           |
| 2018-06-15                           |
| 2016-03-05                           |
| 2009-05-19                           |
| 2010-04-14                           |
| 2010-03-01                           |
| 2010-02-12                           |
| 2010-05-31                           |
| 2010-03-01                           |
| 2009-03-23                           |
| 2017-03-05                           |
| 2018-04-11                           |
+--------------------------------------+
12 rows in set (0.00 sec)

mysql>
mysql> delete from tblClient where CITY='Bardoli';
Query OK, 2 rows affected (0.14 sec)

mysql>
mysql> select*from tblClient;
+----+---------+--------+---------+--------+
| ID | FNAME   | GENDER | CITY    | ITEMID |
+----+---------+--------+---------+--------+
|  1 | Krishna | F      | Surat   | FW05   |
|  6 | Nayan   | M      | Navsari | s5009  |
| 12 | Aesha   | F      | Surat   | SH06   |
| 15 | Krunal  | M      | Navsari | S5005  |
| 16 | Dhruvin | M      | Vapi    | TP01   |
| 24 | Drashti | F      | Valsad  | FW12   |
| 25 | Manan   | M      | Surat   | S5003  |
| 31 | Bhavik  | M      | Surat   | FW12   |
| 35 | Naman   | M      | Mumbai  | S5009  |
| 36 | Urja    | F      | Baroda  | S5003  |
| 42 | Raj     | M      | Valsad  | BS01   |
| 43 | Kush    | M      | Baroda  | S5006  |
| 45 | Shrey   | M      | Anand   | TP01   |
+----+---------+--------+---------+--------+
13 rows in set (0.00 sec)

mysql>
mysql> truncate table tblDealer;
```

19

```
Query OK, 0 rows affected (2.11 sec)

mysql> select*from tblDealer;
Empty set (0.05 sec)

mysql>
mysql> truncate table tblItem;
Query OK, 0 rows affected (0.91 sec)

mysql> select*from tblItem;
Empty set (0.01 sec)

mysql>
mysql> truncate table tblClient;
Query OK, 0 rows affected (0.97 sec)

mysql> select*from tblClient;
Empty set (0.06 sec)
```