```
mysql> select * from item;
+----------+----------------+-----------------+-----------+------------------+-----------------+
| itemCode | itemName       | manufactureName | unitPrice | manufacturingYear | itemCategory    |
+----------+----------------+-----------------+-----------+------------------+-----------------+
| IT101    | LED32Inch      | Samsung         | 15000.00  | 2015-11-14       | Television      |
| IT102    | GlaxyS5        | Samsung         | 13000.00  | 2016-04-16       | Mobile          |
| IT103    | FrontLoad      | Samsung         | 20000.00  | 2016-05-23       | WashingMachine  |
| IT104    | DualDoor       | Samsung         | 12000.00  | 2015-11-20       | Refrigerator    |
| IT105    | Pencils        | Natraj          | 2.00      | 2016-01-11       | Stationery      |
| IT106    | LED32Inch      | LG              | 19000.00  | 2016-01-01       | Television      |
| IT107    | LG G5 Sliver   | LG              | 11000.00  | 2015-11-20       | Mobile          |
| IT108    | TopLoad        | LG              | 25000.00  | 2016-04-18       | WashingMachine  |
| IT109    | FourDoor       | LG              | 18000.00  | 2016-05-18       | Refrigerator    |
| IT110    | Erasers        | Camlin          | 5.00      | 2016-01-15       | Stationery      |
| IT111    | LED32Inch      | Sony            | 22000.00  | 2016-03-14       | Television      |
| IT112    | Sony Xperia Z5 | Sony            | 9000.00   | 2015-12-14       | Mobile          |
| IT113    | FullyAutomatic | Sony            | 22000.00  | 2015-12-13       | WashingMachine  |
| IT114    | ThreeDoorNormal| Sony            | 19000.00  | 2016-06-14       | Refrigerator    |
| IT115    | Pens           | Faber Castell   | 10.00     | 2016-01-19       | Stationery      |
| IT116    | LED32Inch      | Onida           | 20000.00  | 2016-02-19       | Television      |
| IT117    | Onida i505     | Onida           | 10000.00  | 2016-04-23       | Mobile          |
| IT118    | SemiAutoMatic  | Onida           | 11000.00  | 2015-12-31       | WashingMachine  |
| IT119    | ThreeDoorLux   | Onida           | 18000.00  | 2016-06-19       | Refrigerator    |
| IT120    | Sharpner       | Apsara          | 5.00      | 2016-01-21       | Stationery      |
| IT121    | LED50Inch      | Onida           | 48000.00  | 2021-01-23       | Television      |
| IT122    | ThreeDoor      | Thomson         | 21000.00  | 2018-10-11       | Refrigerator    |
| IT123    | LED50Inch      | LG              | 38000.00  | 2018-04-18       | Television      |
| IT124    | ThreeDoor      | Samsung         | 22000.00  | 2018-04-17       | Refrigerator    |
| IT125    | FourDoor       | Samsung         | 21000.00  | 2012-01-20       | Refrigerator    |
+----------+----------------+-----------------+-----------+------------------+-----------------+
25 rows in set (0.00 sec)

mysql> select * from customer;
+------------+--------------+-------------------------------------------+-------------+------------------+
| customerId | customerName | address                                   | phoneNumber | customerMailId   |
+------------+--------------+-------------------------------------------+-------------+------------------+
|       1001 | Mario        | Street: 1, Cross: 2, Town: 3, Pin: 1231   | 1234567890  | Mario@xyz.com    |
|       1002 | Megan        | Street: 1, Cross: 2, Town: 3, Pin: 1231   | 1234567891  | Megan@xyz.com    |
|       1003 | Amy          | Street: 1, Cross: 2, Town: 3, Pin: 1231   | 1234567892  | Amy@xyz.com      |
|       1004 | Stuart       | Street: 1, Cross: 2, Town: 3, Pin: 1231   | 1234567893  | Stuart@xyz.com   |
|       1005 | Phil         | Street: 2, Cross: 4, Town: 5, Pin: 1232   | 1234567894  | Phil@xyz.com     |
|       1006 | Jacob        | Street: 2, Cross: 4, Town: 5, Pin: 1232   | 1234567895  | Jacob@xyz.com    |
|       1007 | James        | Street: 2, Cross: 4, Town: 5, Pin: 1232   | 1234567896  | James@xyz.com    |
|       1008 | Dan          | Street: 2, Cross: 4, Town: 5, Pin: 1232   | 1234567897  | Dan@xyz.com      |
|       1009 | Henry        | Street: 12, Cross: 4, Town: 15, Pin: 1235 | 1234567898  | Henry@xyz.com    |
|       1010 | Eric         | Street: 12, Cross: 4, Town: 15, Pin: 1235 | 1234567899  | Eric@xyz.com     |
|       1011 | Ken          | Street: 12, Cross: 4, Town: 15, Pin: 1235 | 1234567900  | Ken@xyz.com      |
|       1012 | Mecon        | Street: 14, Cross: 6, Town: 16, Pin: 1236 | 1234567901  | Mecon@xyz.com    |
|       1013 | Merlin       | Street: 14, Cross: 5, Town: 16, Pin: 1236 | 1234567902  | Merlin@xyz.com   |
|       1014 | Morgan       | Street: 14, Cross: 5, Town: 16, Pin: 1236 | 1234567903  | Morgan@xyz.com   |
+------------+--------------+-------------------------------------------+-------------+------------------+
14 rows in set (0.00 sec)

mysql> create table orderMaster(orderId numeric primary key,
    -> orderDate Date,
    -> TotalOrderAmount numeric(10,2) check(TotalOrderAmount>0),
    -> CustomerId numeric references customer(customerId));
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> select * from orderMaster;
+---------+------------+------------------+------------+
| orderId | orderDate  | TotalOrderAmount | CustomerId |
+---------+------------+------------------+------------+
|   70001 | 2016-07-07 |         49000.00 |       1001 |
|   70002 | 2016-06-27 |         82000.00 |       1006 |
|   70003 | 2016-07-09 |           200.00 |       1005 |
|   70004 | 2016-07-10 |         46000.00 |       1006 |
|   70005 | 2016-06-20 |         48000.00 |       1005 |
|   70006 | 2016-07-10 |           200.00 |       1006 |
|   70007 | 2016-07-20 |         49000.00 |       1005 |
+---------+------------+------------------+------------+
7 rows in set (0.00 sec)

mysql> create table orderTransaction(OrderId numeric references orderMaster(orderId),
    -> ItemCode varchar(10) references item(itemCode),
    -> QtyOrdered numeric(2) check(QtyOrdered>0),
    -> primary key(OrderId,ItemCode));
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> select * from orderTransaction;
+---------+----------+------------+
| OrderId | ItemCode | QtyOrdered |
+---------+----------+------------+
|   70001 | IT101    |          2 |
|   70001 | IT114    |          1 |
|   70002 | IT103    |          1 |
|   70002 | IT109    |          1 |
|   70002 | IT111    |          2 |
|   70003 | IT115    |         20 |
|   70004 | IT102    |          2 |
|   70004 | IT117    |          2 |
|   70005 | IT121    |          1 |
|   70006 | IT115    |         20 |
|   70007 | IT101    |          2 |
|   70007 | IT114    |          1 |
+---------+----------+------------+
12 rows in set (0.00 sec)
```

```
mysql> select itemCode,itemName,itemCategory from item where unitPrice<500;
+----------+----------+--------------+
| itemCode | itemName | itemCategory |
+----------+----------+--------------+
| IT105    | Pencils  | Stationery   |
| IT110    | Erasers  | Stationery   |
| IT115    | Pens     | Stationery   |
| IT120    | Sharpner | Stationery   |
+----------+----------+--------------+
4 rows in set (0.00 sec)

mysql> select itemCode,itemName,itemCategory from item where unitPrice between '10,000' and '20,000';
+----------+----------+--------------+
| itemCode | itemName | itemCategory |
+----------+----------+--------------+
| IT115    | Pens     | Stationery   |
+----------+----------+--------------+
1 row in set, 50 warnings (0.00 sec)

mysql> select itemCode, manufactureName from item where itemCategory='Television' and unitPrice>15000;
+----------+-----------------+
| itemCode | manufactureName |
+----------+-----------------+
| IT106    | LG              |
| IT111    | Sony            |
| IT116    | Onida           |
| IT121    | Onida           |
| IT123    | LG              |
+----------+-----------------+
5 rows in set (0.00 sec)
```

```
mysql> select itemName,manufactureName, unitPrice from item where itemCategory in('Television','Mobiles','Washing Machines');
+-----------+-----------------+-----------+
| itemName  | manufactureName | unitPrice |
+-----------+-----------------+-----------+
| LED32Inch | Samsung         |  15000.00 |
| LED32Inch | LG              |  19000.00 |
| LED32Inch | Sony            |  22000.00 |
| LED32Inch | Onida           |  20000.00 |
| LED50Inch | Onida           |  48000.00 |
| LED50Inch | LG              |  38000.00 |
+-----------+-----------------+-----------+
6 rows in set (0.00 sec)

mysql> select itemCode,itemName,manufactureName from item where manufacturingYear='2015';
Empty set, 2 warnings (0.00 sec)

mysql> select itemCode,itemName,manufactureName from item where manufacturingYear like '2015%';
+----------+----------------+-----------------+
| itemCode | itemName       | manufactureName |
+----------+----------------+-----------------+
| IT101    | LED32Inch      | Samsung         |
| IT104    | DualDoor       | Samsung         |
| IT107    | LG G5 Sliver   | LG              |
| IT112    | Sony Xperia Z5 | Sony            |
| IT113    | FullyAutomatic | Sony            |
| IT118    | SemiAutoMatic  | Onida           |
+----------+----------------+-----------------+
6 rows in set, 1 warning (0.00 sec)
```

```
mysql> select itemCode,itemName,unitPrice,unitPrice+(2/100)*unitPrice as "UnitPrice+VAT" from item;
+----------+----------------+------------+----------------+
| itemCode | itemName       | unitPrice  | UnitPrice+VAT  |
+----------+----------------+------------+----------------+
| IT101    | LED32Inch      | 15000.00   | 15300.000000   |
| IT102    | GlaxyS5        | 13000.00   | 13260.000000   |
| IT103    | FrontLoad      | 20000.00   | 20400.000000   |
| IT104    | DualDoor       | 12000.00   | 12240.000000   |
| IT105    | Pencils        |     2.00   |     2.040000   |
| IT106    | LED32Inch      | 19000.00   | 19380.000000   |
| IT107    | LG G5 Sliver   | 11000.00   | 11220.000000   |
| IT108    | TopLoad        | 25000.00   | 25500.000000   |
| IT109    | FourDoor       | 18000.00   | 18360.000000   |
| IT110    | Erasers        |     5.00   |     5.100000   |
| IT111    | LED32Inch      | 22000.00   | 22440.000000   |
| IT112    | Sony Xperia Z5 |  9000.00   |  9180.000000   |
| IT113    | FullyAutomatic | 22000.00   | 22440.000000   |
| IT114    | ThreeDoorNormal| 19000.00   | 19380.000000   |
| IT115    | Pens           |    10.00   |    10.200000   |
| IT116    | LED32Inch      | 20000.00   | 20400.000000   |
| IT117    | Onida i505     | 10000.00   | 10200.000000   |
| IT118    | SemiAutoMatic  | 11000.00   | 11220.000000   |
| IT119    | ThreeDoorLux   | 18000.00   | 18360.000000   |
| IT120    | Sharpner       |     5.00   |     5.100000   |
| IT121    | LED50Inch      | 48000.00   | 48960.000000   |
| IT122    | ThreeDoor      | 21000.00   | 21420.000000   |
| IT123    | LED50Inch      | 38000.00   | 38760.000000   |
| IT124    | ThreeDoor      | 22000.00   | 22440.000000   |
| IT125    | FourDoor       | 21000.00   | 21420.000000   |
+----------+----------------+------------+----------------+
25 rows in set (0.00 sec)


mysql> select customerName,phoneNumber from customer where customerName like 'J%';
+--------------+--------------+
| customerName | phoneNumber  |
+--------------+--------------+
| Jacob        | 1234567895   |
| James        | 1234567896   |
+--------------+--------------+
2 rows in set (0.00 sec)

mysql> select customerName,phoneNumber from customer where customerName like '%an';
+--------------+--------------+
| customerName | phoneNumber  |
+--------------+--------------+
| Megan        | 1234567891   |
| Dan          | 1234567897   |
| Morgan       | 1234567903   |
+--------------+--------------+
3 rows in set (0.00 sec)

mysql> select customerName,phoneNumber from customer where customerName like 'M%n';
+--------------+--------------+
| customerName | phoneNumber  |
+--------------+--------------+
| Megan        | 1234567891   |
| Mecon        | 1234567901   |
| Merlin       | 1234567902   |
| Morgan       | 1234567903   |
+--------------+--------------+
4 rows in set (0.00 sec)
```

```
mysql> select customerName,phoneNumber from customer where customerName like 'M%n';
+--------------+--------------+
| customerName | phoneNumber  |
+--------------+--------------+
| Megan        | 1234567891   |
| Mecon        | 1234567901   |
| Merlin       | 1234567902   |
| Morgan       | 1234567903   |
+--------------+--------------+
4 rows in set (0.00 sec)
```

```
mysql> select customerName,phoneNumber from customer where customerName like '_a%';
+--------------+--------------+
| customerName | phoneNumber  |
+--------------+--------------+
| Mario        | 1234567890   |
| Jacob        | 1234567895   |
| James        | 1234567896   |
| Dan          | 1234567897   |
+--------------+--------------+
4 rows in set (0.00 sec)
```

```
mysql> select itemCode,itemName,manufactureName,unitPrice from item order by unitPrice desc;
+----------+-----------------+-----------------+-----------+
| itemCode | itemName        | manufactureName | unitPrice |
+----------+-----------------+-----------------+-----------+
| IT121    | LED50Inch       | Onida           | 48000.00  |
| IT123    | LED50Inch       | LG              | 38000.00  |
| IT108    | TopLoad         | LG              | 25000.00  |
| IT113    | FullyAutomatic  | Sony            | 22000.00  |
| IT124    | ThreeDoor       | Samsung         | 22000.00  |
| IT111    | LED32Inch       | Sony            | 22000.00  |
| IT122    | ThreeDoor       | Thomson         | 21000.00  |
| IT125    | FourDoor        | Samsung         | 21000.00  |
| IT103    | FrontLoad       | Samsung         | 20000.00  |
| IT116    | LED32Inch       | Onida           | 20000.00  |
| IT106    | LED32Inch       | LG              | 19000.00  |
| IT114    | ThreeDoorNormal | Sony            | 19000.00  |
| IT109    | FourDoor        | LG              | 18000.00  |
| IT119    | ThreeDoorLux    | Onida           | 18000.00  |
| IT101    | LED32Inch       | Samsung         | 15000.00  |
| IT102    | GlaxyS5         | Samsung         | 13000.00  |
| IT104    | DualDoor        | Samsung         | 12000.00  |
| IT118    | SemiAutoMatic   | Onida           | 11000.00  |
| IT107    | LG G5 Sliver    | LG              | 11000.00  |
| IT117    | Onida i505      | Onida           | 10000.00  |
| IT112    | Sony Xperia Z5  | Sony            |  9000.00  |
| IT115    | Pens            | Faber Castell   |    10.00  |
| IT110    | Erasers         | Camlin          |     5.00  |
| IT120    | Sharpner        | Apsara          |     5.00  |
| IT105    | Pencils         | Natraj          |     2.00  |
+----------+-----------------+-----------------+-----------+
5 rows in set (0.00 sec)
```

```
mysql> select customerName,address from customer order by customerName asc;
+--------------+-----------------------------------------------+
| customerName | address                                       |
+--------------+-----------------------------------------------+
| Amy          | Street: 1, Cross: 2, Town: 3, Pin: 1231       |
| Dan          | Street: 2, Cross: 4, Town: 5, Pin: 1232       |
| Eric         | Street: 12, Cross: 4, Town: 15, Pin: 1235     |
| Henry        | Street: 12, Cross: 4, Town: 15, Pin: 1235     |
| Jacob        | Street: 2, Cross: 4, Town: 5, Pin: 1232       |
| James        | Street: 2, Cross: 4, Town: 5, Pin: 1232       |
| Ken          | Street: 12, Cross: 4, Town: 15, Pin: 1235     |
| Mario        | Street: 1, Cross: 2, Town: 3, Pin: 1231       |
| Mecon        | Street: 14, Cross: 6, Town: 16, Pin: 1236     |
| Megan        | Street: 1, Cross: 2, Town: 3, Pin: 1231       |
| Merlin       | Street: 14, Cross: 5, Town: 16, Pin: 1236     |
| Morgan       | Street: 14, Cross: 5, Town: 16, Pin: 1236     |
| Phil         | Street: 2, Cross: 4, Town: 5, Pin: 1232       |
| Stuart       | Street: 1, Cross: 2, Town: 3, Pin: 1231       |
+--------------+-----------------------------------------------+
14 rows in set (0.00 sec)
```

```
mysql> select itemCode,itemName,manufactureName from item where manufacturingYear<date_sub(now(),interval 2 year);
+----------+----------------+-----------------+
| itemCode | itemName       | manufactureName |
+----------+----------------+-----------------+
| IT101    | LED32Inch      | Samsung         |
| IT102    | GlaxyS5        | Samsung         |
| IT103    | FrontLoad      | Samsung         |
| IT104    | DualDoor       | Samsung         |
| IT105    | Pencils        | Natraj          |
| IT106    | LED32Inch      | LG              |
| IT107    | LG G5 Sliver   | LG              |
| IT108    | TopLoad        | LG              |
| IT109    | FourDoor       | LG              |
| IT110    | Erasers        | Camlin          |
| IT111    | LED32Inch      | Sony            |
| IT112    | Sony Xperia Z5 | Sony            |
| IT113    | FullyAutomatic | Sony            |
| IT114    | ThreeDoorNormal| Sony            |
| IT115    | Pens           | Faber Castell   |
| IT116    | LED32Inch      | Onida           |
| IT117    | Onida i505     | Onida           |
| IT118    | SemiAutoMatic  | Onida           |
| IT119    | ThreeDoorLux   | Onida           |
| IT120    | Sharpner       | Apsara          |
| IT121    | LED50Inch      | Onida           |
| IT122    | ThreeDoor      | Thomson         |
| IT123    | LED50Inch      | LG              |
| IT124    | ThreeDoor      | Samsung         |
| IT125    | FourDoor       | Samsung         |
+----------+----------------+-----------------+
25 rows in set (0.00 sec)

mysql>
```