```
[student@localhost ~]$ mysql -h 10.10.12.128 -u t31255 -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 25
Server version: 5.5.43-MariaDB MariaDB Server

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owners.

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

mysql> use t31255db
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> desc Customer;
+--------------+-------------+------+-----+---------+-------+
| Field        | Type        | Null | Key | Default | Extra |
+--------------+-------------+------+-----+---------+-------+
| cust_no      | int(11)     | NO   | PRI | NULL    |       |
| cust_fname   | varchar(20) | YES  |     | NULL    |       |
| cust_lname   | varchar(20) | YES  |     | NULL    |       |
| cust_company | varchar(20) | YES  |     | NULL    |       |
| cust_addr    | varchar(30) | YES  |     | NULL    |       |
| city         | varchar(10) | YES  |     | NULL    |       |
| cust_phone   | mediumtext  | YES  |     | NULL    |       |
+--------------+-------------+------+-----+---------+-------+
7 rows in set (0.00 sec)

mysql> desc orders;
+----------+---------+------+-----+---------+-------+
| Field    | Type    | Null | Key | Default | Extra |
+----------+---------+------+-----+---------+-------+
| order_no | int(11) | NO   | PRI | NULL    |       |
| cust_no  | int(11) | YES  | MUL | NULL    |       |
| isbn     | int(11) | YES  | MUL | NULL    |       |
| qty      | int(11) | YES  |     | NULL    |       |
| odate    | date    | YES  |     | NULL    |       |
+----------+---------+------+-----+---------+-------+
5 rows in set (0.00 sec)

mysql> desc book;
+--------------+-------------+------+-----+---------+-------+
| Field        | Type        | Null | Key | Default | Extra |
+--------------+-------------+------+-----+---------+-------+
| isbn         | int(11)     | NO   | PRI | NULL    |       |
| title        | varchar(20) | YES  |     | NULL    |       |
| unit_price   | float       | YES  |     | NULL    |       |
| author_no    | int(11)     | YES  | MUL | NULL    |       |
| publisher_no | int(11)     | YES  | MUL | NULL    |       |
| pub_year     | year(4)     | YES  |     | NULL    |       |
```

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

mysql> desc author;
```
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| author_no   | int(11)     | NO   | PRI | NULL    |       |
| author_name | varchar(30) | YES  |     | NULL    |       |
| country     | varchar(20) | YES  |     | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
```
3 rows in set (0.00 sec)

mysql> desc publisher;
```
+----------------+-------------+------+-----+---------+-------+
| Field          | Type        | Null | Key | Default | Extra |
+----------------+-------------+------+-----+---------+-------+
| publisher_no   | int(11)     | NO   | PRI | NULL    |       |
| publisher_name | varchar(40) | YES  |     | NULL    |       |
| publisher_addr | varchar(40) | YES  |     | NULL    |       |
| year_p         | year(4)     | YES  |     | NULL    |       |
+----------------+-------------+------+-----+---------+-------+
```
4 rows in set (0.00 sec)

1. Insert at least 10 records in customer table and insert other tables accordingly.

mysql> select * from Customer;
```
+---------+-------------+------------+---------------+-----------+-----------+------------+
| cust_no | cust_fname  | cust_lname | cust_company  | cust_addr | city      | cust_phone |
+---------+-------------+------------+---------------+-----------+-----------+------------+
|       1 | Pankaj      | Kapoor     | Tata          | Kondhwa   | Pune      | 1111111111 |
|       2 | Harshal     | Kapoor     | Birla         | Khargar   | Mumbai    | 2222222222 |
|       3 | Salman      | Khan       | Lodha         | Khopoli   | Mumbai    | 3333333333 |
|       4 | Aryan       | Khan       | Tata          | Kothrud   | Pune      | 0          |
|       5 | Harmanpreet | Kaur       | Jio           | MG Road   | Bangalore | 5555555555 |
|       6 | Smriti      | Mandhana   | Jio           | MG Road   | Delhi     | 6666666666 |
|       7 | Shalini     | Mitra      | Bengal Sweets | Rasgulla  | Kolkata   | 7777777777 |
|       8 | Rohit       | Sharma     | Mercedes      | Aundh     | Pune      | 9944553332 |
|       9 | Shikhar     | Dhawan     | Porsche       | Andheri   | Mumbai    | 9999999999 |
|      10 | Cristiano   | Ronaldo    | Juventus      | Port Cris | Lisbon    | 9090909090 |
+---------+-------------+------------+---------------+-----------+-----------+------------+
```
10 rows in set (0.00 sec)

mysql> select * from orders;
```
+----------+---------+------+------+------------+
| order_no | cust_no | isbn | qty  | odate      |
+----------+---------+------+------+------------+
|        1 |       3 | 103  |    5 | 2019-06-06 |
|        2 |       2 | 102  |    7 | 2019-06-07 |
|        3 |       7 | 106  |    4 | 2019-06-09 |
+----------+---------+------+------+------------+
```
3 rows in set (0.00 sec)

mysql> select * from book;
```
+------+----------------+------------+-----------+--------------+----------+
```

```
| isbn | title          | unit_price | author_no | publisher_no | pub_year |
+------+----------------+------------+-----------+--------------+----------+
| 101  | Hindi          |      300 |      70 |        121 |   2015 |
| 102  | Stranger Things |     350 |      78 |        122 |   2013 |
| 103  | La La Land     |      900 |      79 |        123 |   2016 |
| 104  | Mathematics    |      800 |      79 |        123 |   2000 |
| 105  | Science        |      650 |      70 |        121 |   2004 |
| 106  | English        |      550 |      78 |        122 |   2006 |
+------+----------------+------------+-----------+--------------+----------+
6 rows in set (0.00 sec)

mysql> select * from author;
+-----------+----------------+-----------+
| author_no | author_name    | country   |
+-----------+----------------+-----------+
|       70 | Robin Sharma   | India     |
|       78 | Nicholas Flamel | Australia |
|       79 | Will Smith     | Kenya     |
+-----------+----------------+-----------+
3 rows in set (0.00 sec)

mysql> select * from publisher;
+--------------+----------------+----------------+--------+
| publisher_no | publisher_name | publisher_addr | year_p |
+--------------+----------------+----------------+--------+
|        121 | Camel          | Bandra         |   2010 |
|        122 | Scholastic     | Andheri East   |   2016 |
|        123 | Wren&Martin    | Andheri West   |   2015 |
+--------------+----------------+----------------+--------+
3 rows in set (0.00 sec)
```

2. Display all customer details with city pune and mumbai and customer first name starting with 'r' or 'h'.

```
mysql> select * from Customer where cust_fname like 'r%' or cust_fname like 'h%' and city in('Pune','Mumbai');
+---------+------------+------------+--------------+-----------+--------+------------+
| cust_no | cust_fname | cust_lname | cust_company | cust_addr | city   | cust_phone |
+---------+------------+------------+--------------+-----------+--------+------------+
|      2 | Harshal    | Kapoor     | Birla        | Khargar   | Mumbai | 2222222222 |
|      8 | Rohit      | Sharma     | Mercedes     | Aundh     | Pune   | 9944553332 |
+---------+------------+------------+--------------+-----------+--------+------------+
2 rows in set (0.00 sec)
```

3. lists the number of different customer cities.(use of distinct)

```
mysql> select distinct city from Customer;
+-----------+
| city      |
+-----------+
| Pune      |
| Mumbai    |
| Bangalore |
| Delhi     |
| Kolkata   |
```
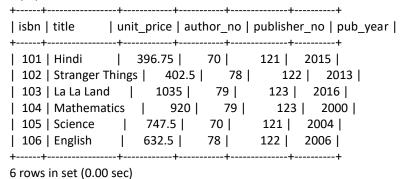
```
| Lisbon    |
+-----------+
6 rows in set (0.00 sec)

mysql> update book set unit_price = 1.15*unit_price;
Query OK, 6 rows affected (0.01 sec)
Rows matched: 6  Changed: 6  Warnings: 0

mysql> select * from book;
+------+----------------+------------+-----------+--------------+----------+
| isbn | title          | unit_price | author_no | publisher_no | pub_year |
+------+----------------+------------+-----------+--------------+----------+
|  101 | Hindi          |       345  |       70  |         121  |    2015  |
|  102 | Stranger Things |     402.5 |       78  |         122  |    2013  |
|  103 | La La Land     |      1035  |       79  |         123  |    2016  |
|  104 | Mathematics    |       920  |       79  |         123  |    2000  |
|  105 | Science        |     747.5  |       70  |         121  |    2004  |
|  106 | English        |     632.5  |       78  |         122  |    2006  |
+------+----------------+------------+-----------+--------------+----------+
6 rows in set (0.00 sec)
```

4. Give 5% increase in price of the books with publishing year 2015.

```
mysql> update book set unit_price = 1.15*unit_price where pub_year=2015;
Query OK, 1 row affected (0.02 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from book;
+------+----------------+------------+-----------+--------------+----------+
| isbn | title          | unit_price | author_no | publisher_no | pub_year |
+------+----------------+------------+-----------+--------------+----------+
|  101 | Hindi          |    396.75  |       70  |         121  |    2015  |
|  102 | Stranger Things |     402.5 |       78  |         122  |    2013  |
|  103 | La La Land     |      1035  |       79  |         123  |    2016  |
|  104 | Mathematics    |       920  |       79  |         123  |    2000  |
|  105 | Science        |     747.5  |       70  |         121  |    2004  |
|  106 | English        |     632.5  |       78  |         122  |    2006  |
+------+----------------+------------+-----------+--------------+----------+
6 rows in set (0.00 sec)
```

5. Delete customer details living in pune.

```
mysql> delete from Customer where city='Pune';
Query OK, 3 rows affected (0.02 sec)
```

6. Find the names of authors living in India or Australia

```
mysql> select author_name from author where country in('India','Australia');
+-----------------+
| author_name     |
+-----------------+
| Robin Sharma    |
```

| Nicholas Flamel |
+-----------------+
2 rows in set (0.00 sec)

7. Find the publishers who are established in year 2015 as well as in 2016

mysql> select publisher_name from publisher where year_p in(2015,2016);
+----------------+
| publisher_name |
+----------------+
| Scholastic |
| Wren&Martin |
+----------------+
2 rows in set (0.01 sec)

8. Find the book having maximum price and find titles of book having price between 300 and 400.

mysql> select max(unit_price),title from book;
+-----------------+-------+
| max(unit_price) | title |
+-----------------+-------+
| 1035 | Hindi |
+-----------------+-------+
1 row in set (0.00 sec)

mysql> select * from book where unit_price between 300 and 400;
+------+-------+------------+-----------+--------------+----------+
| isbn | title | unit_price | author_no | publisher_no | pub_year |
+------+-------+------------+-----------+--------------+----------+
| 101 | Hindi | 396.75 | 70 | 121 | 2015 |
+------+-------+------------+-----------+--------------+----------+
1 row in set (0.00 sec)

9. Display all titles of books with price and published year in decreasing order of publishing year.

mysql> select title,unit_price,pub_year from book order by pub_year desc;
+-----------------+------------+----------+
| title | unit_price | pub_year |
+-----------------+------------+----------+
La La Land	1035	2016
Hindi	396.75	2015
Stranger Things	402.5	2013
English	632.5	2006
Science	747.5	2004
Mathematics	920	2000
+-----------------+------------+----------+
6 rows in set (0.00 sec)

10. Display title,author_no and publisher_no of all books published in 2000,2004,2006.

mysql> select title,author_no,publisher_no from book where pub_year in(2000,2004,2006);
+-------------+-----------+--------------+
| title | author_no | publisher_no |

```
+-------------+-----------+--------------+
| Mathematics |      79 |       123 |
| Science     |      70 |      121 |
| English     |      78 |      122 |
+-------------+-----------+--------------+
3 rows in set (0.00 sec)

mysql> select * from Customer;
+---------+-------------+------------+---------------+-----------+-----------+------------+
| cust_no | cust_fname  | cust_lname | cust_company  | cust_addr | city      | cust_phone |
+---------+-------------+------------+---------------+-----------+-----------+------------+
|       2 | Harshal     | Kapoor     | Birla         | Khargar   | Mumbai    | 2222222222 |
|       3 | Salman      | Khan       | Lodha         | Khopoli   | Mumbai    | 3333333333 |
|       5 | Harmanpreet | Kaur       | Jio           | MG Road   | Bangalore | 5555555555 |
|       6 | Smriti      | Mandhana   | Jio           | MG Road   | Delhi     | 6666666666 |
|       7 | Shalini     | Mitra      | Bengal Sweets | Rasgulla  | Kolkata   | 7777777777 |
|       9 | Shikhar     | Dhawan     | Porsche       | Andheri   | Mumbai    | 9999999999 |
|      10 | Cristiano   | Ronaldo    | Juventus      | Port Cris | Lisbon    | 9090909090 |
+---------+-------------+------------+---------------+-----------+-----------+------------+
7 rows in set (0.00 sec)
```