```
bash-4.2$ cd 31255
bash-4.2$ scp Assignment3.odt student@10.10.11.116:/home/student/DBMS-M2/T31255
ssh: connect to host 10.10.11.116 port 22: No route to host
lost connection
bash-4.2$ mysql -h 10.10.10.54 -u t31255 -p
Enter password:
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 61
Server version: 5.5.43-MariaDB MariaDB Server
Copyright (c) 2000, 2015, Oracle and/or its affiliates. All rights reserved.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysgl> select * from information schema.user;
ERROR 1109 (42S02): Unknown table 'user' in information schema
mysql> show databases;
+----+
Database
+----+
| information schema |
| t31255db |
+----+
2 rows in set (0.01 sec)
mysql> select * from t31255db.Customer;
+-----+
| cust no | cust fname | cust Iname | cust company | cust addr | city
                                                           | cust phone |
+-----+
   2 | Harshal | Kapoor | Birla | Khargar | Mumbai | 2222222222 |
   3 | Salman | Khan | Lodha | Khopoli | Mumbai | 3333333333 |
                              | MG Road | Daligatore | | |
| MG Road | Delhi | 6666666666 |
|---| Molbata | 7777777777
                                | MG Road | Bangalore | 5555555555 |
   5 | Harmanpreet | Kaur | Jio
   6 | Smriti | Mandhana | Jio
   7 | Shalini | Mitra | Bengal Sweets | Rasgulla | Kolkata | 777777777 |
   9 | Shikhar | Dhawan | Porsche | Andheri | Mumbai | 9999999999 |
   10 | Cristiano | Ronaldo | Juventus | Port Cris | Lisbon | 9090909090 |
+-----+
7 rows in set (0.00 sec)
mysql> mysql> select * from t31255db.Customer;
+-----+
| cust no | cust fname | cust Iname | cust company | cust addr | city
                                                           I cust phone I
+-----+
   2 | Harshal | Kapoor | Birla | Khargar | Mumbai | 2222222222 |
                               | Khopoli | Mumbai | 3333333333 |
   3 | Salman | Khan | Lodha
   5 | Harmanpreet | Kaur | Jio
                                | MG Road | Bangalore | 5555555555 |
   6 | Smriti | Mandhana | Jio | MG Road | Delhi | 666666666 |
   7 | Shalini | Mitra | Bengal Sweets | Rasgulla | Kolkata | 777777777 |
   9 | Shikhar | Dhawan | Porsche | Andheri | Mumbai | 9999999999 |
   10 | Cristiano | Ronaldo | Juventus | Port Cris | Lisbon | 9090909090 |
+-----+
```

mysql> select * from information_schema.table_constraints;

+-----+

| CONSTRAINT_CATALOG | CONSTRAINT_SCHEMA | CONSTRAINT_NAME | TABLE_SCHEMA | TABLE_NAME | CONSTRAINT_TYPE |

+	+	++
def	t31255db	PRIMARY t31255db Customer PRIMARY KEY
def	t31255db	PRIMARY t31255db author PRIMARY KEY
def	t31255db	PRIMARY t31255db book PRIMARY KEY
def	t31255db	book_ibfk_1 t31255db book FOREIGN KEY
def	t31255db	book_ibfk_2 t31255db book FOREIGN KEY
def	t31255db	book_ibfk_3 t31255db book FOREIGN KEY
def	t31255db	book_ibfk_4 t31255db book FOREIGN KEY
def	t31255db	PRIMARY t31255db orders PRIMARY KEY
def	t31255db	orders_ibfk_1 t31255db orders FOREIGN KEY
def	t31255db	orders_ibfk_2 t31255db orders FOREIGN KEY
def	t31255db	orders_ibfk_3 t31255db orders FOREIGN KEY
def	t31255db	orders_ibfk_4 t31255db orders FOREIGN KEY
def	t31255db	PRIMARY t31255db publisher PRIMARY KEY

+-----+

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> alter table book drop foreign key book_ibfk_1;

Query OK, 8 rows affected (0.10 sec)

Records: 8 Duplicates: 0 Warnings: 0

mysql> alter table book drop foreign key book_ibfk_2;

Query OK, 8 rows affected (0.07 sec)

Records: 8 Duplicates: 0 Warnings: 0

mysql> alter table book drop foreign key book_ibfk_3;

Query OK, 8 rows affected (0.07 sec) Records: 8 Duplicates: 0 Warnings: 0

mysql> alter table book drop foreign key book_ibfk_4;

Query OK, 8 rows affected (0.08 sec) Records: 8 Duplicates: 0 Warnings: 0

mysql> alter table orders drop foreign key orders_ibfk_1;

Query OK, 5 rows affected (0.25 sec) Records: 5 Duplicates: 0 Warnings: 0

mysql> alter table orders drop foreign key orders_ibfk_2; Query OK, 5 rows affected (0.08 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> alter table orders drop foreign key orders_ibfk_3;

Query OK, 5 rows affected (0.09 sec)

¹³ rows in set (0.00 sec)

mysql> alter table orders drop foreign key orders ibfk 4; Query OK, 5 rows affected (0.08 sec) Records: 5 Duplicates: 0 Warnings: 0 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> select * from information schema.table constraints; **+-----**| CONSTRAINT CATALOG | CONSTRAINT SCHEMA | CONSTRAINT NAME | TABLE SCHEMA | TABLE NAME | CONSTRAINT TYPE | +-----+ | def t31255db | PRIMARY | t31255db | Customer | PRIMARY KEY |
 | def
 | t31255db
 | PRIMARY
 | t31255db
 | author
 | PRIMARY KEY
 |

 | def
 | t31255db
 | PRIMARY
 | t31255db
 | book
 | PRIMARY KEY
 |

 | def
 | t31255db
 | PRIMARY
 | t31255db
 | orders
 | PRIMARY KEY
 |

 | def
 | t31255db
 | PRIMARY
 | t31255db
 | publisher
 | PRIMARY KEY
 |
 +-----+ 5 rows in set (0.00 sec) mysql> alter table Customer drop primary key; Query OK, 7 rows affected (0.08 sec) Records: 7 Duplicates: 0 Warnings: 0 mysql> alter table author drop primary key; Query OK, 3 rows affected (0.08 sec) Records: 3 Duplicates: 0 Warnings: 0 mysgl> alter table book drop primary key; Query OK, 8 rows affected (0.09 sec) Records: 8 Duplicates: 0 Warnings: 0 mysql> alter table orders drop primary key; Query OK, 5 rows affected (0.10 sec) Records: 5 Duplicates: 0 Warnings: 0 mysql> alter table publisher drop primary key; Query OK, 3 rows affected (0.08 sec) Records: 3 Duplicates: 0 Warnings: 0 mysql> select * from information_schema.table_constraints;

Records: 5 Duplicates: 0 Warnings: 0

Empty set (0.00 sec)

1. Find Customer details and order details using NATURAL JOIN.

2. Find the book title, author name, country. (INNER JOIN)

mysql> select title,author_name,country from book inner join author using(author_no);

1

+	++			
title	author_name country			
+	++			
Hindi	Robin Sharma India			
Stranger Things Nicholas Flamel Australia				
La La Lan	d Will Smith Kenya			
Mathema	atics Will Smith Kenya			
Science	Robin Sharma India			
English	Nicholas Flamel Australia			
mysql	Robin Sharma India			
German	Will Smith Kenya			
+	++			
8 rows in set (0.00 sec)				

3. Find the customer ID, name and order_no of customers who have never placed an order. (LEFT/RIGHT)

mysql> select Customer.cust no,cust fname,cust Iname,order no from Customer left join orders using(cust no);

```
+-----+
| cust_no | cust_fname | cust_Iname | order_no |
+-----+
| 3 | Salman | Khan | 1 |
| 2 | Harshal | Kapoor | 2 |
| 7 | Shalini | Mitra | 3 |
| 7 | Shalini | Mitra | 4 |
| 3 | Salman | Khan | 9 |
| 5 | Harmanpreet | Kaur | NULL |
| 6 | Smriti | Mandhana | NULL |
| 9 | Shikhar | Dhawan | NULL |
| 10 | Cristiano | Ronaldo | NULL |
+------+
```

9 rows in set (0.00 sec)

4. Find the Title, ISBN, order_no of the books for which order is not placed. (LEFT/RIGHT)

mysql> select title,book.isbn,order no from orders right join book using(isbn);

5. Display cust_fname, title,author_no,publisher_year where ISBN=1234. (JOINING more than 2 tables)

mysql> select cust_fname,title,author_no,pub_year from Customer join orders using(cust_no) join book using(isbn) where isbn=1234;

```
+-----+
| cust_fname | title | author_no | pub_year |
+-----+
| Shalini | German | 79 | 2013 |
+-----+
1 row in set (0.00 sec)
```

6. Display the total number of books and customer name. (USE OF COUNT, ANY JOIN)

mysql> select cust_fname,count(qty) from Customer left join orders using(cust_no) left join book using(isbn) group by Customer.cust_no;

```
+----+
| cust_fname | count(qty) |
+----+
| Harshal |
             1 |
| Salman |
            2 |
| Rohit |
            0 |
| Harmanpreet | 0 |
| Smriti |
            0 |
| Shikhar |
            0 |
| Cristiano |
+----+
7 rows in set (0.00 sec)
```

7. List the cust id, order no and ISBN with books having title 'mysql'. (sub query- IN)

mysql> select Customer.cust_no,orders.order_no,isbn from Customer join orders using(cust_no) where isbn in(select isbn from book where title='mysql');

```
+-----+
| cust_no | order_no | isbn |
+-----+
| 3 | 9 | 344 |
+-----+
1 row in set (0.00 sec)
```

8. Find the names of all the companies that ordered books in the year 2015. (sub query, Between)

mysql> select distinct(cust_company) from Customer join orders using(cust_no) where odate in(select odate from orders where odate between '2015-01-01' and '2015-12-31');

```
+-----+
| cust_company |
+-----+
| Lodha |
| Birla |
+-----+
2 rows in set (0.00 sec)
```

9. Create view showing the author and book details. (COMPLEX VIEW)

mysql> create view view1 as select b.isbn,b.title,a.author_no,a.author_name from book Query OK, 0 rows affected (0.06 sec)

10. Perform Manipulation on simple view-Insert, update, delete, drop view.

```
mysql> create view customer_view as
 -> select cust no, cust fname, cust Iname, city
 -> from Customer;
Query OK, 0 rows affected (0.04 sec)
mysgl> select * from customer view;
+----+
| cust_no | cust_fname | cust_lname | city
+----+
   2 | Harshal | Kapoor | Mumbai |
   3 | Salman | Khan | Mumbai |
   5 | Harmanpreet | Kaur | Bangalore |
  6 | Smriti | Mandhana | Delhi |
   7 | Shalini | Mitra | Kolkata |
  9 | Shikhar | Dhawan | Mumbai |
  10 | Cristiano | Ronaldo | Lisbon |
+----+
7 rows in set (0.00 sec)
```

mysql> insert into customer view values(

```
-> 4, 'Rohit', 'Sharma', 'Delhi');
Query OK, 1 row affected (0.01 sec)
mysql> select * from customer_view;
+----+
| cust no | cust fname | cust Iname | city
+----+
   2 | Harshal | Kapoor | Mumbai |
   3 | Salman | Khan | Mumbai |
   5 | Harmanpreet | Kaur | Bangalore |
   6 | Smriti | Mandhana | Delhi |
   7 | Shalini | Mitra | Kolkata |
   9 | Shikhar | Dhawan | Mumbai |
   10 | Cristiano | Ronaldo | Lisbon |
   4 | Rohit | Sharma | Delhi |
+----+
8 rows in set (0.01 sec)
mysql> update customer_view set cust_no=8 where cust_no=9;
Query OK, 1 row affected (0.02 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select * from customer view;
+----+
| cust no | cust fname | cust Iname | city
+----+
   2 | Harshal | Kapoor | Mumbai |
   3 | Salman | Khan | Mumbai |
   5 | Harmanpreet | Kaur | Bangalore |
   6 | Smriti | Mandhana | Delhi |
   7 | Shalini | Mitra | Kolkata |
   8 | Shikhar | Dhawan | Mumbai |
   10 | Cristiano | Ronaldo | Lisbon |
   4 | Rohit | Sharma | Delhi |
8 rows in set (0.00 sec)
mysql> delete from customer view where cust no=7;
Query OK, 1 row affected (0.01 sec)
mysgl> select * from customer view;
+----+
| cust_no | cust_fname | cust_lname | city
+----+
   2 | Harshal | Kapoor | Mumbai |
   3 | Salman | Khan
                      | Mumbai |
   5 | Harmanpreet | Kaur | Bangalore |
   6 | Smriti | Mandhana | Delhi |
   8 | Shikhar | Dhawan | Mumbai |
   10 | Cristiano | Ronaldo | Lisbon |
   4 | Rohit | Sharma | Delhi |
+----+
7 rows in set (0.00 sec)
```

mysql> drop view customer view;

Query OK, 0 rows affected (0.00 sec)

mysql> select * from customer_view; ERROR 1146 (42S02): Table 't31255db.customer_view' doesn't exist