**Day1Demos.txt**

Details

Activity

Enter password: \*\*\*\*

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 44

Server version: 8.0.34 MySQL Community Server - GPL

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owners.

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

mysql> show databases;

+--------------------+

| Database |

+--------------------+

| eshop |

| eshop\_db |

| infodb |

| information\_schema |

| mydata |

| mydb |

| mynewdb |

| mysql |

| performance\_schema |

| sys |

+--------------------+

10 rows in set (0.37 sec)

mysql> create database myemp;

Query OK, 1 row affected (0.10 sec)

mysql> show databases;

+--------------------+

| Database |

+--------------------+

| eshop |

| eshop\_db |

| infodb |

| information\_schema |

| mydata |

| mydb |

| myemp |

| mynewdb |

| mysql |

| performance\_schema |

| sys |

+--------------------+

11 rows in set (0.01 sec)

mysql> use mydb;

Database changed

mysql> use myemp;

Database changed

mysql> create table Employee(id int primary key, name varchar(30) unique key,salary float);

Query OK, 0 rows affected (0.24 sec)

mysql> desc Employee;

+--------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------+-------------+------+-----+---------+-------+

| id | int | NO | PRI | NULL | |

| name | varchar(30) | YES | UNI | NULL | |

| salary | float | YES | | NULL | |

+--------+-------------+------+-----+---------+-------+

3 rows in set (0.08 sec)

mysql> show tables;

+-----------------+

| Tables\_in\_myemp |

+-----------------+

| employee |

+-----------------+

1 row in set (0.03 sec)

mysql> alter table Employee add city varchar(30);

Query OK, 0 rows affected (0.20 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc Employee;

+--------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------+-------------+------+-----+---------+-------+

| id | int | NO | PRI | NULL | |

| name | varchar(30) | YES | UNI | NULL | |

| salary | float | YES | | NULL | |

| city | varchar(30) | YES | | NULL | |

+--------+-------------+------+-----+---------+-------+

4 rows in set (0.02 sec)

mysql> alter table Employee drop city;

Query OK, 0 rows affected (0.09 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc Employee;

+--------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------+-------------+------+-----+---------+-------+

| id | int | NO | PRI | NULL | |

| name | varchar(30) | YES | UNI | NULL | |

| salary | float | YES | | NULL | |

+--------+-------------+------+-----+---------+-------+

3 rows in set (0.01 sec)

mysql> create table student(rollNum int,marks float(3,2),name varchar(40));

Query OK, 0 rows affected, 1 warning (0.06 sec)

mysql> desc student;

+---------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+---------+-------------+------+-----+---------+-------+

| rollNum | int | YES | | NULL | |

| marks | float(3,2) | YES | | NULL | |

| name | varchar(40) | YES | | NULL | |

+---------+-------------+------+-----+---------+-------+

3 rows in set (0.01 sec)

mysql> alter table student add constraint mypkey primary key(rollNum);

Query OK, 0 rows affected (0.13 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student

-> ;

+---------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+---------+-------------+------+-----+---------+-------+

| rollNum | int | NO | PRI | NULL | |

| marks | float(3,2) | YES | | NULL | |

| name | varchar(40) | YES | | NULL | |

+---------+-------------+------+-----+---------+-------+

3 rows in set (0.00 sec)

mysql> alter table student add constraint unique key(name);

Query OK, 0 rows affected (0.04 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student;

+---------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+---------+-------------+------+-----+---------+-------+

| rollNum | int | NO | PRI | NULL | |

| marks | float(3,2) | YES | | NULL | |

| name | varchar(40) | YES | UNI | NULL | |

+---------+-------------+------+-----+---------+-------+

3 rows in set (0.01 sec)

mysql> show tables;

+-----------------+

| Tables\_in\_myemp |

+-----------------+

| employee |

| student |

+-----------------+

2 rows in set (0.14 sec)

mysql> drop table student;

Query OK, 0 rows affected (0.18 sec)

mysql> show tables;

+-----------------+

| Tables\_in\_myemp |

+-----------------+

| employee |

+-----------------+

1 row in set (0.01 sec)

mysql> use infodb;

Database changed

mysql> show tables;

+------------------+

| Tables\_in\_infodb |

+------------------+

| myemp |

+------------------+

1 row in set (0.00 sec)

mysql> select \* from myemp;

+-----+-------+--------+---------------------+

| id | name | city | jointime |

+-----+-------+--------+---------------------+

| 101 | Sneha | Pune | 2022-07-05 04:30:02 |

| 102 | megha | pune | NULL |

| 103 | Raj | Nashik | 2022-08-08 10:30:00 |

+-----+-------+--------+---------------------+

3 rows in set (0.01 sec)

mysql> truncate table myemp;

Query OK, 0 rows affected (0.10 sec)

mysql> show tables;

+------------------+

| Tables\_in\_infodb |

+------------------+

| myemp |

+------------------+

1 row in set (0.00 sec)

mysql> select \* from myemp;

Empty set (0.02 sec)

mysql>

**Day2(Demo).txt**

Details

Activity

mysql> create table student(rollnum int primary key,name varchar(30),marks float(5,2));

Query OK, 0 rows affected, 1 warning (0.27 sec)

mysql> show tables;

+-----------------+

| Tables\_in\_mydb1 |

+-----------------+

| student |

+-----------------+

1 row in set (0.03 sec)

mysql> desc student;

+---------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+---------+-------------+------+-----+---------+-------+

| rollnum | int | NO | PRI | NULL | |

| name | varchar(30) | YES | | NULL | |

| marks | float(5,2) | YES | | NULL | |

+---------+-------------+------+-----+---------+-------+

3 rows in set (0.04 sec)

mysql> alter table student add constraint unique key(name);

Query OK, 0 rows affected (0.12 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student;

+---------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+---------+-------------+------+-----+---------+-------+

| rollnum | int | NO | PRI | NULL | |

| name | varchar(30) | YES | UNI | NULL | |

| marks | float(5,2) | YES | | NULL | |

+---------+-------------+------+-----+---------+-------+

3 rows in set (0.01 sec)

mysql> alter table student add column city varchar(20);

Query OK, 0 rows affected (0.27 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student;

+---------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+---------+-------------+------+-----+---------+-------+

| rollnum | int | NO | PRI | NULL | |

| name | varchar(30) | YES | UNI | NULL | |

| marks | float(5,2) | YES | | NULL | |

| city | varchar(20) | YES | | NULL | |

+---------+-------------+------+-----+---------+-------+

4 rows in set (0.06 sec)

mysql> alter table drop column city;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'drop column city' at line 1

mysql> alter table student drop column city;

Query OK, 0 rows affected (0.04 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student;

+---------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+---------+-------------+------+-----+---------+-------+

| rollnum | int | NO | PRI | NULL | |

| name | varchar(30) | YES | UNI | NULL | |

| marks | float(5,2) | YES | | NULL | |

+---------+-------------+------+-----+---------+-------+

3 rows in set (0.01 sec)

mysql> insert into student(rollnum,name,marks)values(101,'Neha',402.23);

Query OK, 1 row affected (0.03 sec)

mysql> select \* from student;

+---------+------+--------+

| rollnum | name | marks |

+---------+------+--------+

| 101 | Neha | 402.23 |

+---------+------+--------+

1 row in set (0.00 sec)

mysql> insert into student values(102,'Raj',320.23);

Query OK, 1 row affected (0.01 sec)

mysql> select \* from student;

+---------+------+--------+

| rollnum | name | marks |

+---------+------+--------+

| 101 | Neha | 402.23 |

| 102 | Raj | 320.23 |

+---------+------+--------+

2 rows in set (0.00 sec)

mysql> insert into student values(102,'Meena',320.23);

ERROR 1062 (23000): Duplicate entry '102' for key 'student.PRIMARY'

mysql> insert into student values(103,'Raj',320.23);

ERROR 1062 (23000): Duplicate entry 'Raj' for key 'student.name'

mysql> insert into student values(103,'Suraj',320.23);

Query OK, 1 row affected (0.01 sec)

mysql> select \* from student;

+---------+-------+--------+

| rollnum | name | marks |

+---------+-------+--------+

| 101 | Neha | 402.23 |

| 102 | Raj | 320.23 |

| 103 | Suraj | 320.23 |

+---------+-------+--------+

3 rows in set (0.00 sec)

mysql> update student set marks=420.20 where rollnum=103;

Query OK, 1 row affected (0.02 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from student;

+---------+-------+--------+

| rollnum | name | marks |

+---------+-------+--------+

| 101 | Neha | 402.23 |

| 102 | Raj | 320.23 |

| 103 | Suraj | 420.20 |

+---------+-------+--------+

3 rows in set (0.00 sec)

mysql> insert into student values(104,'Swati',325.23);

Query OK, 1 row affected (0.01 sec)

mysql> insert into student values(105,'Medha',425.23);

Query OK, 1 row affected (0.00 sec)

mysql> select \* from student;

+---------+-------+--------+

| rollnum | name | marks |

+---------+-------+--------+

| 101 | Neha | 402.23 |

| 102 | Raj | 320.23 |

| 103 | Suraj | 420.20 |

| 104 | Swati | 325.23 |

| 105 | Medha | 425.23 |

+---------+-------+--------+

5 rows in set (0.00 sec)

mysql> delete from student where rollnum=103;

Query OK, 1 row affected (0.01 sec)

mysql> select \* from student;

+---------+-------+--------+

| rollnum | name | marks |

+---------+-------+--------+

| 101 | Neha | 402.23 |

| 102 | Raj | 320.23 |

| 104 | Swati | 325.23 |

| 105 | Medha | 425.23 |

+---------+-------+--------+

4 rows in set (0.00 sec)

mysql> select rollnum,name from student;

+---------+-------+

| rollnum | name |

+---------+-------+

| 105 | Medha |

| 101 | Neha |

| 102 | Raj |

| 104 | Swati |

+---------+-------+

4 rows in set (0.00 sec)

mysql> select marks from student;

+--------+

| marks |

+--------+

| 402.23 |

| 320.23 |

| 325.23 |

| 425.23 |

+--------+

4 rows in set (0.00 sec)

mysql> create table employee(id int primary key,name varchar(30) not null, sal float(6,2));

Query OK, 0 rows affected, 1 warning (0.32 sec)

mysql> desc employee;

+-------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------+-------------+------+-----+---------+-------+

| id | int | NO | PRI | NULL | |

| name | varchar(30) | NO | | NULL | |

| sal | float(6,2) | YES | | NULL | |

+-------+-------------+------+-----+---------+-------+

3 rows

mysql>

-------------------------------------------------------------------day 2 demos--------------------------------------

mysql> select \* from student;

+---------+-------+--------+

| rollnum | name | marks |

+---------+-------+--------+

| 101 | Neha | 402.23 |

| 102 | Raj | 320.23 |

| 104 | Swati | 325.23 |

| 105 | Medha | 425.23 |

+---------+-------+--------+

4 rows in set (0.05 sec)

mysql> update student set name='Meena' where rollnum=101;

Query OK, 1 row affected (0.20 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from student;

+---------+-------+--------+

| rollnum | name | marks |

+---------+-------+--------+

| 101 | Meena | 402.23 |

| 102 | Raj | 320.23 |

| 104 | Swati | 325.23 |

| 105 | Medha | 425.23 |

+---------+-------+--------+

4 rows in set (0.00 sec)

mysql> update student set name='Kiran',marks=350.20 where rollnum=102;

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from student;

+---------+-------+--------+

| rollnum | name | marks |

+---------+-------+--------+

| 101 | Meena | 402.23 |

| 102 | Kiran | 350.20 |

| 104 | Swati | 325.23 |

| 105 | Medha | 425.23 |

+---------+-------+--------+

4 rows in set (0.00 sec)

mysql> alter table student add column college\_id int;

Query OK, 0 rows affected (0.38 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student;

+------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+------------+-------------+------+-----+---------+-------+

| rollnum | int | NO | PRI | NULL | |

| name | varchar(30) | YES | UNI | NULL | |

| marks | float(5,2) | YES | | NULL | |

| college\_id | int | YES | | NULL | |

+------------+-------------+------+-----+---------+-------+

4 rows in set (0.07 sec)

mysql> create table myemp(id int primary key,name varchar(30) not null,salary float(6,2));

Query OK, 0 rows affected, 1 warning (0.15 sec)

mysql> desc myemp;

+--------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------+-------------+------+-----+---------+-------+

| id | int | NO | PRI | NULL | |

| name | varchar(30) | NO | | NULL | |

| salary | float(6,2) | YES | | NULL | |

+--------+-------------+------+-----+---------+-------+

3 rows in set (0.01 sec)

mysql> create table department(deptid int not null,name varchar(30) not null,empid int,

-> primary key(deptid), constraint foreign key(empid) references myemp(id));

Query OK, 0 rows affected (0.25 sec)

mysql> desc depertment;

ERROR 1146 (42S02): Table 'mydb1.depertment' doesn't exist

mysql> desc department;

+--------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------+-------------+------+-----+---------+-------+

| deptid | int | NO | PRI | NULL | |

| name | varchar(30) | NO | | NULL | |

| empid | int | YES | MUL | NULL | |

+--------+-------------+------+-----+---------+-------+

3 rows in set (0.06 sec)

mysql> insert into myemp values(901,'Sakshi',45000.2);

ERROR 1264 (22003): Out of range value for column 'salary' at row 1

mysql> insert into myemp values(901,'Sakshi',4500.20);

Query OK, 1 row affected (0.01 sec)

mysql> insert into myemp values(902,'Megha',4700.20);

Query OK, 1 row affected (0.13 sec)

mysql> insert into myemp values(903,'Rahul',6700.20);

Query OK, 1 row affected (0.00 sec)

mysql> select \* from myemp;

+-----+--------+---------+

| id | name | salary |

+-----+--------+---------+

| 901 | Sakshi | 4500.20 |

| 902 | Megha | 4700.20 |

| 903 | Rahul | 6700.20 |

+-----+--------+---------+

3 rows in set (0.00 sec)

mysql> insert into department values(1,'Purchase',901);

Query OK, 1 row affected (0.01 sec)

mysql> insert into department values(2,'Purchase',902);

Query OK, 1 row affected (0.01 sec)

mysql> insert into department values(3,'Marketing',903);

Query OK, 1 row affected (0.00 sec)

mysql> select \* from department;

+--------+-----------+-------+

| deptid | name | empid |

+--------+-----------+-------+

| 1 | Purchase | 901 |

| 2 | Purchase | 902 |

| 3 | Marketing | 903 |

+--------+-----------+-------+

3 rows in set (0.00 sec)

mysql> select \* from department where empid=901;

+--------+----------+-------+

| deptid | name | empid |

+--------+----------+-------+

| 1 | Purchase | 901 |

+--------+----------+-------+

1 row in set (0.01 sec)

mysql> alter table myemp add column deptid int;

Query OK, 0 rows affected (0.24 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc myemp;

+--------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------+-------------+------+-----+---------+-------+

| id | int | NO | PRI | NULL | |

| name | varchar(30) | NO | | NULL | |

| salary | float(6,2) | YES | | NULL | |

| deptid | int | YES | | NULL | |

+--------+-------------+------+-----+---------+-------+

4 rows in set (0.04 sec)

mysql> alter table myemp add constraint foreign key(deptid) references department(deptid);

Query OK, 3 rows affected (0.14 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> desc myem;

ERROR 1146 (42S02): Table 'mydb1.myem' doesn't exist

mysql> desc myemp;

+--------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------+-------------+------+-----+---------+-------+

| id | int | NO | PRI | NULL | |

| name | varchar(30) | NO | | NULL | |

| salary | float(6,2) | YES | | NULL | |

| deptid | int | YES | MUL | NULL | |

+--------+-------------+------+-----+---------+-------+

4 rows in set (0.00 sec)

mysql> select \* from myemp;

+-----+--------+---------+--------+

| id | name | salary | deptid |

+-----+--------+---------+--------+

| 901 | Sakshi | 4500.20 | NULL |

| 902 | Megha | 4700.20 | NULL |

| 903 | Rahul | 6700.20 | NULL |

+-----+--------+---------+--------+

3 rows in set (0.00 sec)

mysql> update myemp set deptid=1 where id=901;

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> update myemp set deptid=1 where id=902;

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> update myemp set deptid=3 where id=903;

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from myemp;

+-----+--------+---------+--------+

| id | name | salary | deptid |

+-----+--------+---------+--------+

| 901 | Sakshi | 4500.20 | 1 |

| 902 | Megha | 4700.20 | 1 |

| 903 | Rahul | 6700.20 | 3 |

+-----+--------+---------+--------+

3 rows in set (0.00 sec)

mysql> select \* from department;

+--------+-----------+-------+

| deptid | name | empid |

+--------+-----------+-------+

| 1 | Purchase | 901 |

| 2 | Purchase | 902 |

| 3 | Marketing | 903 |

+--------+-----------+-------+

3 rows in set (0.00 sec)

mysql> select \* from myemp where deptid=1;

+-----+--------+---------+--------+

| id | name | salary | deptid |

+-----+--------+---------+--------+

| 901 | Sakshi | 4500.20 | 1 |

| 902 | Megha | 4700.20 | 1 |

+-----+--------+---------+--------+

2 rows in set (0.01 sec)

mysql> select name from the department where empid=903

-> ;

ERROR 1146 (42S02): Table 'mydb1.the' doesn't exist

mysql> select name from the department where empid=903;

ERROR 1146 (42S02): Table 'mydb1.the' doesn't exist

mysql> desc department;

+--------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------+-------------+------+-----+---------+-------+

| deptid | int | NO | PRI | NULL | |

| name | varchar(30) | NO | | NULL | |

| empid | int | YES | MUL | NULL | |

+--------+-------------+------+-----+---------+-------+

3 rows in set (0.00 sec)

mysql> select name from department where empid=901;

+----------+

| name |

+----------+

| Purchase |

+----------+

1 row in set (0.00 sec)

mysql> select name from department where empid=903;

+-----------+

| name |

+-----------+

| Marketing |

+-----------+

1 row in set (0.00 sec)

mysql>

Enter password: \*\*\*\*

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 34

Server version: 8.0.34 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective

owners.

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

mysql> use mydb;

Database changed

mysql> show tables;

+----------------------+

| Tables\_in\_mydb |

+----------------------+

| customer |

| customers |

| department |

| employee |

| hib\_books1 |

| hib\_emp |

| hib\_empdetail |

| hibemployee |

| hibemployee6 |

| hibinheritance1 |

| hibnewemp |

| login |

| orderdetails |

| springboot\_rest\_emp1 |

+----------------------+

14 rows in set (0.19 sec)

mysql> select \* from employee;

+-------+--------+--------+------+

| id | name | sal | dept |

+-------+--------+--------+------+

| 900 | Raj | 56000 | 1 |

| 901 | Raghaw | 56000 | 1 |

| 902 | Sneha | 56000 | 2 |

| 903 | Raj | 55000 | 3 |

| 904 | Meena | 87654 | 3 |

| 905 | xyz | 50000 | 3 |

| 906 | pqr | 65000 | 3 |

| 907 | Lily | 25000 | 3 |

| 908 | Pinky | 45000 | 3 |

| 909 | Priya | 67000 | 4 |

| 910 | Reema | 65000 | 4 |

| 911 | kpk | 56000 | 4 |

| 913 | Sonali | 347000 | 4 |

| 914 | Meena | 23000 | 4 |

| 915 | Smitha | 45000 | 2 |

| 991 | TDE | 98799 | 2 |

| 999 | TTT | 9999 | 3 |

| 1000 | Raman | 44000 | 1 |

| 90001 | Lily | 25000 | 1 |

+-------+--------+--------+------+

19 rows in set (0.02 sec)

mysql> select dept,count(\*) "num\_emp",sum(sal) from employee group by dept;

+------+---------+----------+

| dept | num\_emp | sum(sal) |

+------+---------+----------+

| 1 | 4 | 181000 |

| 2 | 3 | 199799 |

| 3 | 7 | 337653 |

| 4 | 5 | 558000 |

+------+---------+----------+

4 rows in set (0.01 sec)

mysql> select \* from customers;

+----+----------+-----+-----------+----------+

| ID | NAME | AGE | ADDRESS | SALARY |

+----+----------+-----+-----------+----------+

| 1 | Ramesh | 32 | Ahmedabad | 2000.00 |

| 2 | Khilan | 25 | Delhi | 1500.00 |

| 3 | Kaushik | 23 | Kota | 2000.00 |

| 4 | Chaitali | 25 | Mumbai | 6500.00 |

| 5 | Hardik | 27 | Bhopal | 8500.00 |

| 6 | Komal | 22 | Hyderabad | 4500.00 |

| 7 | Muffy | 24 | Indore | 10000.00 |

| 8 | Suman | 35 | Bhopal | 3500.00 |

| 9 | Raj | 23 | Bhopal | 34000.00 |

+----+----------+-----+-----------+----------+

9 rows in set (0.01 sec)

mysql> select address,count(\*) "num\_cust" from customers group by address;

+-----------+----------+

| address | num\_cust |

+-----------+----------+

| Ahmedabad | 1 |

| Delhi | 1 |

| Kota | 1 |

| Mumbai | 1 |

| Bhopal | 3 |

| Hyderabad | 1 |

| Indore | 1 |

+-----------+----------+

7 rows in set (0.05 sec)

mysql> select address,count(\*) "num\_cust" from customers group by address having count(\*)>1;

+---------+----------+

| address | num\_cust |

+---------+----------+

| Bhopal | 3 |

+---------+----------+

1 row in set (0.02 sec)

mysql> select address,age,count(\*) "num\_cust" from customers group by address,age having count(\*)>1;

Empty set (0.07 sec)

mysql> select address,count(\*) "num\_cust" from customers group by address having count(\*)>1;

+---------+----------+

| address | num\_cust |

+---------+----------+

| Bhopal | 3 |

+---------+----------+

1 row in set (0.01 sec)

mysql> select dept,count(\*) "num\_emps" from employee group by dept;

+------+----------+

| dept | num\_emps |

+------+----------+

| 1 | 4 |

| 2 | 3 |

| 3 | 7 |

| 4 | 5 |

+------+----------+

4 rows in set (0.02 sec)

mysql> select dept, count(\*) "num\_emps",sum(sal) "Total\_sal" from employee group by dept;

+------+----------+-----------+

| dept | num\_emps | Total\_sal |

+------+----------+-----------+

| 1 | 4 | 181000 |

| 2 | 3 | 199799 |

| 3 | 7 | 337653 |

| 4 | 5 | 558000 |

+------+----------+-----------+

4 rows in set (0.03 sec)

mysql> select dept,count(\*) "num\_emps" from employee group by dept having count(\*)>4;

+------+----------+

| dept | num\_emps |

+------+----------+

| 3 | 7 |

| 4 | 5 |

+------+----------+

2 rows in set (0.00 sec)

mysql>

mysql> use mydb;

Database changed

mysql> show tables;

+----------------------+

| Tables\_in\_mydb |

+----------------------+

| customer |

| customers |

| department |

| employee |

| hib\_books1 |

| hib\_emp |

| hib\_empdetail |

| hibemployee |

| hibemployee6 |

| hibinheritance1 |

| hibnewemp |

| login |

| orderdetails |

| orders |

| springboot\_rest\_emp1 |

+----------------------+

15 rows in set (0.12 sec)

mysql> select \* from employee;

+-----+--------+--------+------+

| id | name | sal | dept |

+-----+--------+--------+------+

| 900 | Raj | 56000 | 1 |

| 901 | Raghaw | 56000 | 1 |

| 902 | Sneha | 56000 | 2 |

| 903 | Raj | 55000 | 3 |

| 904 | Meena | 87654 | 3 |

| 905 | xyz | 50000 | 3 |

| 906 | pqr | 65000 | 3 |

| 907 | Lily | 25000 | 3 |

| 908 | Pinky | 45000 | 3 |

| 909 | Priya | 67000 | 4 |

| 910 | Reema | 65000 | 4 |

| 911 | kpk | 56000 | 4 |

| 913 | Sonali | 347000 | 4 |

| 914 | Meena | 23000 | 4 |

+-----+--------+--------+------+

14 rows in set (0.14 sec)

mysql> select \* from department;

+--------+-------------+-------+

| deptId | name | empid |

+--------+-------------+-------+

| 1 | purchase | 900 |

| 2 | sales | 901 |

| 3 | Development | 903 |

| 4 | production | 910 |

+--------+-------------+-------+

4 rows in set (0.03 sec)

mysql> select id,name,sal from employee where dept=(select deptId from department where deptId=1);

+-----+--------+-------+

| id | name | sal |

+-----+--------+-------+

| 900 | Raj | 56000 |

| 901 | Raghaw | 56000 |

+-----+--------+-------+

2 rows in set (0.03 sec)

mysql> select \* from employee where dept in(select deptId from department where deptId in(1,2));

+-----+--------+-------+------+

| id | name | sal | dept |

+-----+--------+-------+------+

| 900 | Raj | 56000 | 1 |

| 901 | Raghaw | 56000 | 1 |

| 902 | Sneha | 56000 | 2 |

+-----+--------+-------+------+

3 rows in set (0.01 sec)

mysql> select \* from employee where dept=any(select deptId from department where deptId in(1,2));

+-----+--------+-------+------+

| id | name | sal | dept |

+-----+--------+-------+------+

| 900 | Raj | 56000 | 1 |

| 901 | Raghaw | 56000 | 1 |

| 902 | Sneha | 56000 | 2 |

+-----+--------+-------+------+

3 rows in set (0.01 sec)

mysql> select \* from employee where dept=any(select deptId from department where deptId in(3,2)) order by dept;

+-----+-------+-------+------+

| id | name | sal | dept |

+-----+-------+-------+------+

| 902 | Sneha | 56000 | 2 |

| 903 | Raj | 55000 | 3 |

| 904 | Meena | 87654 | 3 |

| 905 | xyz | 50000 | 3 |

| 906 | pqr | 65000 | 3 |

| 907 | Lily | 25000 | 3 |

| 908 | Pinky | 45000 | 3 |

+-----+-------+-------+------+

7 rows in set (0.02 sec)

mysql> select \* from employee where dept=any(select deptId from department where deptId in(3,2)) order by dept desc;

+-----+-------+-------+------+

| id | name | sal | dept |

+-----+-------+-------+------+

| 903 | Raj | 55000 | 3 |

| 904 | Meena | 87654 | 3 |

| 905 | xyz | 50000 | 3 |

| 906 | pqr | 65000 | 3 |

| 907 | Lily | 25000 | 3 |

| 908 | Pinky | 45000 | 3 |

| 902 | Sneha | 56000 | 2 |

+-----+-------+-------+------+

7 rows in set (0.00 sec)

mysql> select empid,name from department where empid in(select \* from employee where id in(901,903,910));

ERROR 1241 (21000): Operand should contain 1 column(s)

mysql> select empid,name from department where empid in(select id,sal from employee where id in(901,903,910));

ERROR 1241 (21000): Operand should contain 1 column(s)

mysql> select empid from department where empid in(select id,sal from employee where id in(901,903,910));

ERROR 1241 (21000): Operand should contain 1 column(s)

mysql> select empid from department where empid in(select id from employee where id in(901,903,910));

+-------+

| empid |

+-------+

| 901 |

| 903 |

| 910 |

+-------+

3 rows in set (0.01 sec)

mysql> select empid,name from department where empid in(select id from employee where id in(901,903,910));

+-------+-------------+

| empid | name |

+-------+-------------+

| 901 | sales |

| 903 | Development |

| 910 | production |

+-------+-------------+

3 rows in set (0.00 sec)

mysql>

mysql> select \* from customers;

+------------+--------------+------------+---------+

| customerId | customerName | contactNum | country |

+------------+--------------+------------+---------+

| 1 | Meena | 3445677898 | India |

| 2 | Alex | 9045677898 | UK |

| 3 | Sam | 9045677998 | US |

| 4 | Suman | 8798675645 | India |

| 5 | Rekha | 9798675645 | India |

+------------+--------------+------------+---------+

5 rows in set (0.09 sec)

mysql> select \* from orders;

+---------+------------+------------+

| orderId | customerId | orderDate |

+---------+------------+------------+

| 10308 | 2 | 1996-09-18 |

| 10309 | 3 | 1996-08-17 |

| 10310 | 3 | 1996-08-17 |

+---------+------------+------------+

3 rows in set (0.02 sec)

mysql> select c.customerName,c.customerId,o.orderId from customers c inner join orders o on c.customerId=o.customerId;

+--------------+------------+---------+

| customerName | customerId | orderId |

+--------------+------------+---------+

| Alex | 2 | 10308 |

| Sam | 3 | 10309 |

| Sam | 3 | 10310 |

+--------------+------------+---------+

3 rows in set (0.01 sec)

mysql> select c.customerName,c.customerId,o.orderId,o.orderDate from customers c left join orders o on c.customerId=o.customerId;

+--------------+------------+---------+------------+

| customerName | customerId | orderId | orderDate |

+--------------+------------+---------+------------+

| Meena | 1 | NULL | NULL |

| Alex | 2 | 10308 | 1996-09-18 |

| Sam | 3 | 10310 | 1996-08-17 |

| Sam | 3 | 10309 | 1996-08-17 |

| Suman | 4 | NULL | NULL |

| Rekha | 5 | NULL | NULL |

+--------------+------------+---------+------------+

6 rows in set (0.01 sec)

mysql> select c.customerName,c.customerId,o.orderId,o.orderDate from customers c right join orders o on c.customerId=o.customerId;

+--------------+------------+---------+------------+

| customerName | customerId | orderId | orderDate |

+--------------+------------+---------+------------+

| Alex | 2 | 10308 | 1996-09-18 |

| Sam | 3 | 10309 | 1996-08-17 |

| Sam | 3 | 10310 | 1996-08-17 |

+--------------+------------+---------+------------+

3 rows in set (0.00 sec)

mysql> use myjoins;

Database changed

mysql> select \* from customers c left join orders o on

-> c.customerId=o.customerId UNION select \* from customers c

-> right join orders o on c.customerId=o.customerId;

+------------+--------------+------------+---------+---------+------------+------------+

| customerId | customerName | contactNum | country | orderId | customerId | orderDate |

+------------+--------------+------------+---------+---------+------------+------------+

| 1 | Meena | 3445677898 | India | NULL | NULL | NULL |

| 2 | Alex | 9045677898 | UK | 10308 | 2 | 1996-09-18 |

| 3 | Sam | 9045677998 | US | 10310 | 3 | 1996-08-17 |

| 3 | Sam | 9045677998 | US | 10309 | 3 | 1996-08-17 |

| 4 | Suman | 8798675645 | India | NULL | NULL | NULL |

| 5 | Rekha | 9798675645 | India | NULL | NULL | NULL |

+------------+--------------+------------+---------+---------+------------+------------+

6 rows in set (0.00 sec)

mysql> select c.customerName,c.customerId,c.contactNum,o.orderId from customers c left join orders o on c.customerId=o.customerId;

+--------------+------------+------------+---------+

| customerName | customerId | contactNum | orderId |

+--------------+------------+------------+---------+

| Meena | 1 | 3445677898 | NULL |

| Alex | 2 | 9045677898 | 10308 |

| Sam | 3 | 9045677998 | 10309 |

| Sam | 3 | 9045677998 | 10310 |

| Suman | 4 | 8798675645 | NULL |

| Rekha | 5 | 9798675645 | NULL |

+--------------+------------+------------+---------+

6 rows in set (0.00 sec)

mysql> select c.customerName,c.customerId,c.contactNum,o.orderId from customers c right join orders o on c.customerId=o.customerId;

+--------------+------------+------------+---------+

| customerName | customerId | contactNum | orderId |

+--------------+------------+------------+---------+

| Alex | 2 | 9045677898 | 10308 |

| Sam | 3 | 9045677998 | 10309 |

| Sam | 3 | 9045677998 | 10310 |

+--------------+------------+------------+---------+

3 rows in set (0.00 sec)

mysql> select \* from customers;

+------------+--------------+------------+---------+

| customerId | customerName | contactNum | country |

+------------+--------------+------------+---------+

| 1 | Meena | 3445677898 | India |

| 2 | Alex | 9045677898 | UK |

| 3 | Sam | 9045677998 | US |

| 4 | Suman | 8798675645 | India |

| 5 | Rekha | 9798675645 | India |

+------------+--------------+------------+---------+

5 rows in set (0.00 sec)

mysql> select \* from orders;

+---------+------------+------------+

| orderId | customerId | orderDate |

+---------+------------+------------+

| 10308 | 2 | 1996-09-18 |

| 10309 | 3 | 1996-08-17 |

| 10310 | 3 | 1996-08-17 |

+---------+------------+------------+

3 rows in set (0.00 sec)

mysql>