Enter password: \*\*\*\*

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

Your MySQL connection id is 4

Server version: 5.6.38-log MySQL Community Server (GPL)

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

mysql> create database AJ003;

Query OK, 1 row affected (0.46 sec)

mysql> use AJ003;

Database changed

mysql> select table Emp(id integer,fname varchar(15),lname varchar(20),address varchar(20),sal integer(5));

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 'table Emp(id integer,fname varchar(15),lname varchar(20),address varchar(20),sal' at line 1

mysql> create table Emp(id integer,fname varchar(15),lname varchar(20),address varchar(20),sal integer(5));

Query OK, 0 rows affected (5.51 sec)

mysql> desc Emp;

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

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

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

| id | int(11) | YES | | NULL | |

| fname | varchar(15) | YES | | NULL | |

| lname | varchar(20) | YES | | NULL | |

| address | varchar(20) | YES | | NULL | |

| sal | int(5) | YES | | NULL | |

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

5 rows in set (0.29 sec)

mysql> drop table Emp;

Query OK, 0 rows affected (0.21 sec)

mysql> desc Emp;

ERROR 1146 (42S02): Table 'aj003.emp' doesn't exist

mysql> create table Emp(id integer,fname varchar(15),lname varchar(20),address varchar(20),sal integer(5));

Query OK, 0 rows affected (0.39 sec)

mysql> desc Emp;

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

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

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

| id | int(11) | YES | | NULL | |

| fname | varchar(15) | YES | | NULL | |

| lname | varchar(20) | YES | | NULL | |

| address | varchar(20) | YES | | NULL | |

| sal | int(5) | YES | | NULL | |

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

5 rows in set (0.04 sec)

mysql> truncate table Emp;

Query OK, 0 rows affected (0.51 sec)

mysql> desc Emp;

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

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

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

| id | int(11) | YES | | NULL | |

| fname | varchar(15) | YES | | NULL | |

| lname | varchar(20) | YES | | NULL | |

| address | varchar(20) | YES | | NULL | |

| sal | int(5) | YES | | NULL | |

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

5 rows in set (0.15 sec)

mysql> desc Emp;

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

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

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

| id | int(11) | YES | | NULL | |

| fname | varchar(15) | YES | | NULL | |

| lname | varchar(20) | YES | | NULL | |

| address | varchar(20) | YES | | NULL | |

| sal | int(5) | YES | | NULL | |

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

5 rows in set (0.16 sec)

mysql> alter table Emp add designation varchar(10);

Query OK, 0 rows affected (1.08 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc Emp;

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

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

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

| id | int(11) | YES | | NULL | |

| fname | varchar(15) | YES | | NULL | |

| lname | varchar(20) | YES | | NULL | |

| address | varchar(20) | YES | | NULL | |

| sal | int(5) | YES | | NULL | |

| designation | varchar(10) | YES | | NULL | |

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

6 rows in set (0.10 sec)

mysql> alter table Emp drop lname varchar(20);

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 'varchar(20)' at line 1

mysql> alter table Emp drop lname varchar;

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 'varchar' at line 1

mysql> alter table Emp drop column lname ;

Query OK, 0 rows affected (0.46 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc Emp;

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

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

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

| id | int(11) | YES | | NULL | |

| fname | varchar(15) | YES | | NULL | |

| address | varchar(20) | YES | | NULL | |

| sal | int(5) | YES | | NULL | |

| designation | varchar(10) | YES | | NULL | |

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

5 rows in set (0.04 sec)

mysql> select \* from Emp;

Empty set (0.00 sec)

mysql> insert into Emp values(101,'Ajay','Pune',12345,'Trainee');

Query OK, 1 row affected (0.04 sec)

mysql> select \* from Emp;

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

| id | fname | address | sal | designation |

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

| 101 | Ajay | Pune | 12345 | Trainee |

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

1 row in set (0.00 sec)

mysql> insert into Emp (id,fname) values(201,'Vijay');

Query OK, 1 row affected (0.04 sec)

mysql> select \* from Emp;

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

| id | fname | address | sal | designation |

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

| 101 | Ajay | Pune | 12345 | Trainee |

| 201 | Vijay | NULL | NULL | NULL |

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

2 rows in set (0.00 sec)

mysql> update Emp set address='Mumbai',sal=10000,designation='AP' where id=201;

Query OK, 1 row affected (0.06 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from Emp;

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

| id | fname | address | sal | designation |

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

| 101 | Ajay | Pune | 12345 | Trainee |

| 201 | Vijay | Mumbai | 10000 | AP |

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

2 rows in set (0.00 sec)

mysql> update Emp set address='Delhi',sal=20000,designation='MP';

Query OK, 2 rows affected (0.01 sec)

Rows matched: 2 Changed: 2 Warnings: 0

mysql> select \* from Emp;

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

| id | fname | address | sal | designation |

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

| 101 | Ajay | Delhi | 20000 | MP |

| 201 | Vijay | Delhi | 20000 | MP |

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

2 rows in set (0.00 sec)

mysql> delete from Emp where id=101;

Query OK, 1 row affected (0.04 sec)

mysql> select \* from Emp;

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

| id | fname | address | sal | designation |

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

| 201 | Vijay | Delhi | 20000 | MP |

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

1 row in set (0.02 sec)

mysql> insert into Emp values(101,'Ajay','Pune',12345,'Trainee');

Query OK, 1 row affected (0.02 sec)

mysql> select \* from Emp;

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

| id | fname | address | sal | designation |

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

| 201 | Vijay | Delhi | 20000 | MP |

| 101 | Ajay | Pune | 12345 | Trainee |

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

2 rows in set (0.00 sec)

mysql> delete from Emp;

Query OK, 2 rows affected (0.03 sec)

mysql> select \* from Emp;

Empty set (0.00 sec)

mysql> insert into Emp values(101,'Ajay','Pune',12345,'Trainee');

Query OK, 1 row affected (0.02 sec)

mysql> insert into Emp values(102,'jay','Mumbai',10000,'Trainee');

Query OK, 1 row affected (0.02 sec)

mysql> insert into Emp values(202,'vijay','Mumbai',20000,'Trainee');

Query OK, 1 row affected (0.03 sec)

mysql> insert into Emp values(203,'vijay','Pune',25000,'Trainee');

Query OK, 1 row affected (0.05 sec)

mysql> select \* from Emp;

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

| id | fname | address | sal | designation |

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

| 101 | Ajay | Pune | 12345 | Trainee |

| 102 | jay | Mumbai | 10000 | Trainee |

| 202 | vijay | Mumbai | 20000 | Trainee |

| 203 | vijay | Pune | 25000 | Trainee |

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

4 rows in set (0.00 sec)

mysql> select \* from Emp;

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

| id | fname | address | sal | designation |

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

| 101 | Ajay | Pune | 12345 | Trainee |

| 102 | jay | Mumbai | 10000 | Trainee |

| 202 | vijay | Mumbai | 20000 | Trainee |

| 203 | vijay | Pune | 25000 | Trainee |

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

4 rows in set (0.00 sec)

mysql> select id,sal from Emp;

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

| id | sal |

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

| 101 | 12345 |

| 102 | 10000 |

| 202 | 20000 |

| 203 | 25000 |

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

4 rows in set (0.00 sec)

mysql> select distinct(address) from Emp;

+---------+

| address |

+---------+

| Pune |

| Mumbai |

+---------+

2 rows in set (0.00 sec)

mysql> select id,sal from Emp where sal=20000;

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

| id | sal |

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

| 202 | 20000 |

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

1 row in set (0.02 sec)

mysql> select id,sal from Emp where sal>20000;

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

| id | sal |

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

| 203 | 25000 |

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

1 row in set (0.00 sec)

mysql> select id,sal from Emp where sal<=20000;

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

| id | sal |

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

| 101 | 12345 |

| 102 | 10000 |

| 202 | 20000 |

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

3 rows in set (0.00 sec)

mysql> select id,sal from Emp where sal<20000;

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

| id | sal |

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

| 101 | 12345 |

| 102 | 10000 |

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

2 rows in set (0.00 sec)

mysql> select fname,sal from Emp where id IN(101,301,202);

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

| fname | sal |

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

| Ajay | 12345 |

| vijay | 20000 |

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

2 rows in set (0.01 sec)

mysql> select \* from Emp where name like '%jay';

ERROR 1054 (42S22): Unknown column 'name' in 'where clause'

mysql> select \* from Emp where fname like '%jay';

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

| id | fname | address | sal | designation |

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

| 101 | Ajay | Pune | 12345 | Trainee |

| 102 | jay | Mumbai | 10000 | Trainee |

| 202 | vijay | Mumbai | 20000 | Trainee |

| 203 | vijay | Pune | 25000 | Trainee |

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

4 rows in set (0.00 sec)

mysql> select \* from Emp where fname like '\_jay';

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

| id | fname | address | sal | designation |

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

| 101 | Ajay | Pune | 12345 | Trainee |

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

1 row in set (0.00 sec)

mysql> insert into Emp (id,fname) values(401,'sujay');

Query OK, 1 row affected (0.03 sec)

mysql> insert into Emp (id,fname) values(501,'jay');

Query OK, 1 row affected (0.03 sec)

mysql> select \* from Emp;

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

| id | fname | address | sal | designation |

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

| 101 | Ajay | Pune | 12345 | Trainee |

| 102 | jay | Mumbai | 10000 | Trainee |

| 202 | vijay | Mumbai | 20000 | Trainee |

| 203 | vijay | Pune | 25000 | Trainee |

| 401 | sujay | NULL | NULL | NULL |

| 501 | jay | NULL | NULL | NULL |

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

6 rows in set (0.00 sec)

mysql> select \* from Emp where sal is null;

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

| id | fname | address | sal | designation |

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

| 401 | sujay | NULL | NULL | NULL |

| 501 | jay | NULL | NULL | NULL |

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

2 rows in set (0.00 sec)

mysql> select \* from Emp where sal is not null;

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

| id | fname | address | sal | designation |

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

| 101 | Ajay | Pune | 12345 | Trainee |

| 102 | jay | Mumbai | 10000 | Trainee |

| 202 | vijay | Mumbai | 20000 | Trainee |

| 203 | vijay | Pune | 25000 | Trainee |

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

4 rows in set (0.00 sec)

mysql> create table demo(id int,name varchar(10));

Query OK, 0 rows affected (0.83 sec)

mysql> insert into demo (id) values (10);

Query OK, 1 row affected (0.05 sec)

mysql> select \* from demo;

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

| id | name |

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

| 10 | NULL |

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

1 row in set (0.00 sec)

mysql> create table demo1(id int not null,name varchar(10)not null);

Query OK, 0 rows affected (0.36 sec)

mysql> insert into demo1 (id) values (10);

ERROR 1364 (HY000): Field 'name' doesn't have a default value

mysql> insert into demo1 (id,name) values (10,'aa');

Query OK, 1 row affected (0.03 sec)

mysql> select \* from demo1;

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

| id | name |

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

| 10 | aa |

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

1 row in set (0.00 sec)

mysql> drop table demo;

Query OK, 0 rows affected (0.16 sec)

mysql> drop table demo1;

Query OK, 0 rows affected (0.16 sec)

mysql> create table demo(id int not null,name color(10) default 'Red');

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 'color(10) default 'Red')' at line 1

mysql> create table demo(id int not null,color varchar(10) default 'Red');

Query OK, 0 rows affected (0.29 sec)

mysql> desc demo;

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

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

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

| id | int(11) | NO | | NULL | |

| color | varchar(10) | YES | | Red | |

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

2 rows in set (0.04 sec)

mysql> insert into demo (id) values(101);

Query OK, 1 row affected (0.03 sec)

mysql> select \* from demo;

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

| id | color |

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

| 101 | Red |

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

1 row in set (0.00 sec)

mysql> drop table demo;

Query OK, 0 rows affected (0.10 sec)

mysql> create table demo(id int unique,color varchar(10) default 'Red'););

Query OK, 0 rows affected (0.36 sec)

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 ')' at line 1

mysql> desc demo;

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

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

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

| id | int(11) | YES | UNI | NULL | |

| color | varchar(10) | YES | | Red | |

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

2 rows in set (0.07 sec)

mysql> insert into demo values(101,'Blue);

'> ';

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 '' at line 1

mysql> insert into demo values(101,'Blue');

Query OK, 1 row affected (0.02 sec)

mysql> select \* from demo;

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

| id | color |

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

| 101 | Blue |

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

1 row in set (0.00 sec)

mysql> insert into Demo (id) values(101);

ERROR 1062 (23000): Duplicate entry '101' for key 'id'

mysql>

mysql>

mysql> create table dept(did int Primary key,dname varchar(10) not null,location varchar(20));

Query OK, 0 rows affected (0.29 sec)

mysql> insert into dept values(901,'AJ','Pune');

Query OK, 1 row affected (0.03 sec)

mysql> insert into dept values(905,'CJ','Mumbai');

Query OK, 1 row affected (0.03 sec)

mysql> insert into dept values(908,'DN','Mumbai');

Query OK, 1 row affected (0.20 sec)

mysql> insert into dept values(908,'FSd','Delhi');

ERROR 1062 (23000): Duplicate entry '908' for key 'PRIMARY'

mysql> insert into dept values(905,'FSd','Delhi');

ERROR 1062 (23000): Duplicate entry '905' for key 'PRIMARY'

mysql> insert into dept values(909,'FSd','Delhi');

Query OK, 1 row affected (0.03 sec)

mysql> select \* from Dept;

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

| did | dname | location |

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

| 901 | AJ | Pune |

| 905 | CJ | Mumbai |

| 908 | DN | Mumbai |

| 909 | FSd | Delhi |

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

4 rows in set (0.00 sec)

mysql> create table emp (id int Primary key,name varchar(20),sal int,dept\_id int,foriegn key(dept\_id) reference Dept(did));

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 'key(dept\_id) reference Dept(did))' at line 1

mysql> create table emp (id int Primary key,name varchar(20),sal int,dept\_id int,foreign key(dept\_id) reference Dept(did));

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 'reference Dept(did))' at line 1

mysql> create table emp (id int Primary key,name varchar(20),sal int,dept\_id int,foreign key(dept\_id) references Dept(did));

ERROR 1050 (42S01): Table 'emp' already exists

mysql> create table empy (id int Primary key,name varchar(20),sal int,dept\_id int,foreign key(dept\_id) references Dept(did));

Query OK, 0 rows affected (0.65 sec)

mysql> desc empy;

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

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

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

| id | int(11) | NO | PRI | NULL | |

| name | varchar(20) | YES | | NULL | |

| sal | int(11) | YES | | NULL | |

| dept\_id | int(11) | YES | MUL | NULL | |

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

4 rows in set (0.16 sec)

mysql> insert into empy values(101,'Ajay',10000,901);

Query OK, 1 row affected (0.02 sec)

mysql> insert into empy values(101,'Ajay',10000,902);

ERROR 1062 (23000): Duplicate entry '101' for key 'PRIMARY'

mysql> insert into empy values(102,'Ajay',10000,902);

ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`aj003`.`empy`, CONSTRAINT `empy\_ibfk\_1` FOREIGN KEY (`dept\_id`) REFERENCES `dept` (`did`))

mysql> insert into empy values(102,'Ajay',10000,905);

Query OK, 1 row affected (0.02 sec)

mysql> insert into empy values(103,'Ajay',10000,905);

Query OK, 1 row affected (0.03 sec)

mysql> insert into empy values(104,'Ajay',10000,908);

Query OK, 1 row affected (0.02 sec)

mysql> delete from empy where id=101;

Query OK, 1 row affected (0.04 sec)

mysql> delete from Dept where id=905;

ERROR 1054 (42S22): Unknown column 'id' in 'where clause'

mysql> delete from Dept where did=905;

ERROR 1451 (23000): Cannot delete or update a parent row: a foreign key constraint fails (`aj003`.`empy`, CONSTRAINT `empy\_ibfk\_1` FOREIGN KEY (`dept\_id`) REFERENCES `dept` (`did`))

mysql> select \* from empy;

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

| id | name | sal | dept\_id |

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

| 102 | Ajay | 10000 | 905 |

| 103 | Ajay | 10000 | 905 |

| 104 | Ajay | 10000 | 908 |

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

3 rows in set (0.00 sec)

mysql> insert into empy values(104,'Ajay',10000,908);

ERROR 1062 (23000): Duplicate entry '104' for key 'PRIMARY'

mysql> insert into empy values(105,'Ajay',20000,908);

Query OK, 1 row affected (0.12 sec)

mysql> insert into empy values(105,'Ajay',30000,908);

ERROR 1062 (23000): Duplicate entry '105' for key 'PRIMARY'

mysql> insert into empy values(106,'Ajay',30000,908);

Query OK, 1 row affected (0.07 sec)

mysql> insert into empy values(107,'Ajay',150000,908);

Query OK, 1 row affected (0.04 sec)

mysql> select \* from empy;

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

| id | name | sal | dept\_id |

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

| 102 | Ajay | 10000 | 905 |

| 103 | Ajay | 10000 | 905 |

| 104 | Ajay | 10000 | 908 |

| 105 | Ajay | 20000 | 908 |

| 106 | Ajay | 30000 | 908 |

| 107 | Ajay | 150000 | 908 |

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

6 rows in set (0.00 sec)

mysql> select avg(sal) from empy;

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

| avg(sal) |

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

| 38333.3333 |

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

1 row in set (0.05 sec)

mysql> select id,name,max(sal) from empy;

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

| id | name | max(sal) |

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

| 102 | Ajay | 150000 |

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

1 row in set (0.01 sec)

mysql> select id,name,min(sal) from empy;

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

| id | name | min(sal) |

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

| 102 | Ajay | 10000 |

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

1 row in set (0.01 sec)

mysql> select count(sal) from empy;

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

| count(sal) |

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

| 6 |

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

1 row in set (0.00 sec)

mysql> select sum(sal) from empy;

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

| sum(sal) |

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

| 230000 |

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

1 row in set (0.00 sec)

mysql> select \* from empy;

ERROR 2006 (HY000): MySQL server has gone away

No connection. Trying to reconnect...

Connection id: 5

Current database: AJ003

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

| id | name | sal | dept\_id |

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

| 102 | Ajay | 10000 | 905 |

| 103 | Ajay | 10000 | 905 |

| 104 | Ajay | 10000 | 908 |

| 105 | Ajay | 20000 | 908 |

| 106 | Ajay | 30000 | 908 |

| 107 | Ajay | 150000 | 908 |

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

6 rows in set (0.55 sec)

mysql> select \* from empy where id<=105 and sal=10000;

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

| id | name | sal | dept\_id |

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

| 102 | Ajay | 10000 | 905 |

| 103 | Ajay | 10000 | 905 |

| 104 | Ajay | 10000 | 908 |

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

3 rows in set (0.09 sec)

mysql> select \* from empy where id<=105 or sal=10000;

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

| id | name | sal | dept\_id |

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

| 102 | Ajay | 10000 | 905 |

| 103 | Ajay | 10000 | 905 |

| 104 | Ajay | 10000 | 908 |

| 105 | Ajay | 20000 | 908 |

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

4 rows in set (0.00 sec)

mysql> select \* from empy order by sal,dept\_id;

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

| id | name | sal | dept\_id |

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

| 102 | Ajay | 10000 | 905 |

| 103 | Ajay | 10000 | 905 |

| 104 | Ajay | 10000 | 908 |

| 105 | Ajay | 20000 | 908 |

| 106 | Ajay | 30000 | 908 |

| 107 | Ajay | 150000 | 908 |

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

6 rows in set (0.02 sec)

mysql> select \* from empy order by sal,dept\_id desc;

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

| id | name | sal | dept\_id |

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

| 104 | Ajay | 10000 | 908 |

| 102 | Ajay | 10000 | 905 |

| 103 | Ajay | 10000 | 905 |

| 105 | Ajay | 20000 | 908 |

| 106 | Ajay | 30000 | 908 |

| 107 | Ajay | 150000 | 908 |

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

6 rows in set (0.00 sec)

mysql> select \* from empy order by sal desc;

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

| id | name | sal | dept\_id |

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

| 107 | Ajay | 150000 | 908 |

| 106 | Ajay | 30000 | 908 |

| 105 | Ajay | 20000 | 908 |

| 102 | Ajay | 10000 | 905 |

| 103 | Ajay | 10000 | 905 |

| 104 | Ajay | 10000 | 908 |

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

6 rows in set (0.00 sec)

mysql> select \* from empy order by sal,dept\_id desc;

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

| id | name | sal | dept\_id |

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

| 104 | Ajay | 10000 | 908 |

| 102 | Ajay | 10000 | 905 |

| 103 | Ajay | 10000 | 905 |

| 105 | Ajay | 20000 | 908 |

| 106 | Ajay | 30000 | 908 |

| 107 | Ajay | 150000 | 908 |

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

6 rows in set (0.00 sec)

mysql> select \* from empy order by sal,id desc;

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

| id | name | sal | dept\_id |

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

| 104 | Ajay | 10000 | 908 |

| 103 | Ajay | 10000 | 905 |

| 102 | Ajay | 10000 | 905 |

| 105 | Ajay | 20000 | 908 |

| 106 | Ajay | 30000 | 908 |

| 107 | Ajay | 150000 | 908 |

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

6 rows in set (0.00 sec)

mysql> select \* from empy order by sal,id ;

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

| id | name | sal | dept\_id |

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

| 102 | Ajay | 10000 | 905 |

| 103 | Ajay | 10000 | 905 |

| 104 | Ajay | 10000 | 908 |

| 105 | Ajay | 20000 | 908 |

| 106 | Ajay | 30000 | 908 |

| 107 | Ajay | 150000 | 908 |

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

6 rows in set (0.00 sec)

mysql> select \* from empy order by sal,id asc;

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

| id | name | sal | dept\_id |

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

| 102 | Ajay | 10000 | 905 |

| 103 | Ajay | 10000 | 905 |

| 104 | Ajay | 10000 | 908 |

| 105 | Ajay | 20000 | 908 |

| 106 | Ajay | 30000 | 908 |

| 107 | Ajay | 150000 | 908 |

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

6 rows in set (0.00 sec)

mysql> select \* from empy order by sal,id dasc;

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 'dasc' at line 1

mysql> select \* from empy order by sal,id desc;

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

| id | name | sal | dept\_id |

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

| 104 | Ajay | 10000 | 908 |

| 103 | Ajay | 10000 | 905 |

| 102 | Ajay | 10000 | 905 |

| 105 | Ajay | 20000 | 908 |

| 106 | Ajay | 30000 | 908 |

| 107 | Ajay | 150000 | 908 |

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

6 rows in set (0.00 sec)

mysql> select \* from empy order by sal,dept\_id dasc;

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 'dasc' at line 1

mysql> select \* from empy order by sal,dept\_id desc;

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

| id | name | sal | dept\_id |

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

| 104 | Ajay | 10000 | 908 |

| 102 | Ajay | 10000 | 905 |

| 103 | Ajay | 10000 | 905 |

| 105 | Ajay | 20000 | 908 |

| 106 | Ajay | 30000 | 908 |

| 107 | Ajay | 150000 | 908 |

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

6 rows in set (0.00 sec)

mysql> select \* from empy order by sal desc;

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

| id | name | sal | dept\_id |

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

| 107 | Ajay | 150000 | 908 |

| 106 | Ajay | 30000 | 908 |

| 105 | Ajay | 20000 | 908 |

| 102 | Ajay | 10000 | 905 |

| 103 | Ajay | 10000 | 905 |

| 104 | Ajay | 10000 | 908 |

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

6 rows in set (0.00 sec)

mysql> select \* from empy order by dept\_id,id desc;

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

| id | name | sal | dept\_id |

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

| 103 | Ajay | 10000 | 905 |

| 102 | Ajay | 10000 | 905 |

| 107 | Ajay | 150000 | 908 |

| 106 | Ajay | 30000 | 908 |

| 105 | Ajay | 20000 | 908 |

| 104 | Ajay | 10000 | 908 |

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

6 rows in set (0.00 sec)

mysql> select \* from empy order by dept\_id,id;

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

| id | name | sal | dept\_id |

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

| 102 | Ajay | 10000 | 905 |

| 103 | Ajay | 10000 | 905 |

| 104 | Ajay | 10000 | 908 |

| 105 | Ajay | 20000 | 908 |

| 106 | Ajay | 30000 | 908 |

| 107 | Ajay | 150000 | 908 |

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

6 rows in set (0.00 sec)

mysql> select \* from empy order by dept\_id desc;

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

| id | name | sal | dept\_id |

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

| 104 | Ajay | 10000 | 908 |

| 105 | Ajay | 20000 | 908 |

| 106 | Ajay | 30000 | 908 |

| 107 | Ajay | 150000 | 908 |

| 102 | Ajay | 10000 | 905 |

| 103 | Ajay | 10000 | 905 |

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

6 rows in set (0.00 sec)

mysql> select \* from empy order by sal,id desc;

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

| id | name | sal | dept\_id |

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

| 104 | Ajay | 10000 | 908 |

| 103 | Ajay | 10000 | 905 |

| 102 | Ajay | 10000 | 905 |

| 105 | Ajay | 20000 | 908 |

| 106 | Ajay | 30000 | 908 |

| 107 | Ajay | 150000 | 908 |

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

6 rows in set (0.00 sec)

mysql> select \* from empy order by sal,id ;

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

| id | name | sal | dept\_id |

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

| 102 | Ajay | 10000 | 905 |

| 103 | Ajay | 10000 | 905 |

| 104 | Ajay | 10000 | 908 |

| 105 | Ajay | 20000 | 908 |

| 106 | Ajay | 30000 | 908 |

| 107 | Ajay | 150000 | 908 |

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

6 rows in set (0.00 sec)

mysql> select sal as Asalary from empy;

+---------+

| Asalary |

+---------+

| 10000 |

| 10000 |

| 10000 |

| 20000 |

| 30000 |

| 150000 |

+---------+

6 rows in set (0.01 sec)

mysql> select dept\_id,sum(sal) from empy group by dept\_id;

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

| dept\_id | sum(sal) |

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

| 905 | 20000 |

| 908 | 210000 |

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

2 rows in set (0.03 sec)

mysql> select dept\_id,sum(sal) from empy group by dept\_id order by dept\_id desc;

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

| dept\_id | sum(sal) |

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

| 908 | 210000 |

| 905 | 20000 |

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

2 rows in set (0.00 sec)

mysql> select dept\_id,sum(sal) from empy where sum(sal)>50000 group by dept\_id order by dept\_id desc;

ERROR 1111 (HY000): Invalid use of group function

mysql> select dept\_id,sum(sal) from empy group by dept\_id having sum(sal)>50000 order by dept\_id desc;

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

| dept\_id | sum(sal) |

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

| 908 | 210000 |

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

1 row in set (0.01 sec)

mysql> select \* from empy;

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

| id | name | sal | dept\_id |

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

| 102 | Ajay | 10000 | 905 |

| 103 | Ajay | 10000 | 905 |

| 104 | Ajay | 10000 | 908 |

| 105 | Ajay | 20000 | 908 |

| 106 | Ajay | 30000 | 908 |

| 107 | Ajay | 150000 | 908 |

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

6 rows in set (0.26 sec)

mysql> select \* from dept;

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

| did | dname | location |

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

| 901 | AJ | Pune |

| 905 | CJ | Mumbai |

| 908 | DN | Mumbai |

| 909 | FSd | Delhi |

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

4 rows in set (0.14 sec)

mysql> select e.id,e.dept\_id,d.dname from empy e inner join dept d on e.dept\_id=d.did;

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

| id | dept\_id | dname |

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

| 102 | 905 | CJ |

| 103 | 905 | CJ |

| 104 | 908 | DN |

| 105 | 908 | DN |

| 106 | 908 | DN |

| 107 | 908 | DN |

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

6 rows in set (0.12 sec)

mysql> insert into empy(id,name,sal) values(6,'Viajy,20000);

'> ';

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 '' at line 1

mysql> insert into empy(id,name,sal) values(6,'Vijay',20000);

Query OK, 1 row affected (0.30 sec)

mysql> insert into empy(id,name,sal) values(7,'sujay',25000);

Query OK, 1 row affected (0.04 sec)

mysql> select \* from empy;

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

| id | name | sal | dept\_id |

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

| 6 | Vijay | 20000 | NULL |

| 7 | sujay | 25000 | NULL |

| 102 | Ajay | 10000 | 905 |

| 103 | Ajay | 10000 | 905 |

| 104 | Ajay | 10000 | 908 |

| 105 | Ajay | 20000 | 908 |

| 106 | Ajay | 30000 | 908 |

| 107 | Ajay | 150000 | 908 |

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

8 rows in set (0.02 sec)

mysql> select \* from dept;

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

| did | dname | location |

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

| 901 | AJ | Pune |

| 905 | CJ | Mumbai |

| 908 | DN | Mumbai |

| 909 | FSd | Delhi |

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

4 rows in set (0.00 sec)

mysql> select e.id,e.dept\_id,d.dname from empy e inner join dept d on e.dept\_id=d.did;

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

| id | dept\_id | dname |

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

| 102 | 905 | CJ |

| 103 | 905 | CJ |

| 104 | 908 | DN |

| 105 | 908 | DN |

| 106 | 908 | DN |

| 107 | 908 | DN |

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

6 rows in set (0.00 sec)

mysql> select e.id,e.dept\_id,d.dname from empy e left join dept d on e.dept\_id=d.did;

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

| id | dept\_id | dname |

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

| 102 | 905 | CJ |

| 103 | 905 | CJ |

| 104 | 908 | DN |

| 105 | 908 | DN |

| 106 | 908 | DN |

| 107 | 908 | DN |

| 6 | NULL | NULL |

| 7 | NULL | NULL |

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

8 rows in set (0.04 sec)

mysql> select e.id,e.dept\_id,d.dname from empy e right join dept d on e.dept\_id=d.did;

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

| id | dept\_id | dname |

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

| NULL | NULL | AJ |

| 102 | 905 | CJ |

| 103 | 905 | CJ |

| 104 | 908 | DN |

| 105 | 908 | DN |

| 106 | 908 | DN |

| 107 | 908 | DN |

| NULL | NULL | FSd |

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

8 rows in set (0.00 sec)

mysql> select e.id,e.dept\_id,d.dname from empy e full outer join dept d on e.dept\_id=d.did;

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 'full outer join dept d on e.dept\_id=d.did' at line 1

mysql> select \* from empy;

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

| id | name | sal | dept\_id |

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

| 6 | Vijay | 20000 | NULL |

| 7 | sujay | 25000 | NULL |

| 102 | Ajay | 10000 | 905 |

| 103 | Ajay | 10000 | 905 |

| 104 | Ajay | 10000 | 908 |

| 105 | Ajay | 20000 | 908 |

| 106 | Ajay | 30000 | 908 |

| 107 | Ajay | 150000 | 908 |

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

8 rows in set (0.00 sec)

mysql> select \* from dept;

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

| did | dname | location |

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

| 901 | AJ | Pune |

| 905 | CJ | Mumbai |

| 908 | DN | Mumbai |

| 909 | FSd | Delhi |

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

4 rows in set (0.00 sec)

mysql> select dname from dept where did In (select dept\_id from empy where sal=10000);

+-------+

| dname |

+-------+

| CJ |

| DN |

+-------+

2 rows in set (0.02 sec)

mysql> select dname from dept where did In (select dept\_id from empy where sal=10000) order by dname;

+-------+

| dname |

+-------+

| CJ |

| DN |

+-------+

2 rows in set (0.04 sec)

mysql> select dname from dept where did In (select dept\_id from empy where sal=10000) order by dname desc;

+-------+

| dname |

+-------+

| DN |

| CJ |

+-------+

2 rows in set (0.00 sec)

mysql>