mysql> CREATE DATABASE student\_database;

ERROR 1007 (HY000): Can't create database 'student\_database'; database exists

mysql> DROP DATABASE student\_database;

Query OK, 0 rows affected (0.69 sec)

mysql> CREATE DATABASE Student\_Database;

Query OK, 1 row affected (0.01 sec)

mysql> CREATE TABLE Student;

ERROR 1046 (3D000): No database selected

mysql> USE Student\_Database;

Database changed

mysql> CREATE TABLE Student;

ERROR 1113 (42000): A table must have at least 1 column

mysql> CREATE TABLE Student (Student\_ID int, Student\_Name varchar(20), Student\_Number varchar(20));

Query OK, 0 rows affected (0.14 sec)

mysql> SELECT \* FROM Student;

Empty set (0.01 sec)

mysql> INSERT into Student(Student\_ID, Student\_Name, Student\_Number) VALUES ('S01', 'Navanee', '7358823561'),('S02', 'Makizh', '8962154856'),('S03', 'Karthi', '7569321459'),('S04', 'Kishore', '5698741235'),('S01', 'Lokesh', '9856321459');

ERROR 1366 (HY000): Incorrect integer value: 'S01' for column 'Student\_ID' at row 1

mysql> INSERT into Student(Student\_ID, Student\_Name, Student\_Number) VALUES ('1', 'Navanee', '7358823561'),('2', 'Makizh', '8962154856'),('3', 'Karthi', '7569321459'),('4', 'Kishore', '5698741235'),('5', 'Lokesh', '9856321459');

Query OK, 5 rows affected (0.03 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> SELECT \* FROM Student;

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

| Student\_ID | Student\_Name | Student\_Number |

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

| 1 | Navanee | 7358823561 |

| 2 | Makizh | 8962154856 |

| 3 | Karthi | 7569321459 |

| 4 | Kishore | 5698741235 |

| 5 | Lokesh | 9856321459 |

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

5 rows in set (0.01 sec)

mysql> alter table Student add (Place varchar(10));

Query OK, 5 rows affected (1.09 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> select \* from student;

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

| Student\_ID | Student\_Name | Student\_Number | Place |

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

| 1 | Navanee | 7358823561 | NULL |

| 2 | Makizh | 8962154856 | NULL |

| 3 | Karthi | 7569321459 | NULL |

| 4 | Kishore | 5698741235 | NULL |

| 5 | Lokesh | 9856321459 | NULL |

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

5 rows in set (0.00 sec)

mysql> insert into Student (Place) values ('Chennai'),('Chennai'),('Chennai'),('Chennai'),('Chennai');

Query OK, 5 rows affected (0.01 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> select \* from student;

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

| Student\_ID | Student\_Name | Student\_Number | Place |

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

| 1 | Navanee | 7358823561 | NULL |

| 2 | Makizh | 8962154856 | NULL |

| 3 | Karthi | 7569321459 | NULL |

| 4 | Kishore | 5698741235 | NULL |

| 5 | Lokesh | 9856321459 | NULL |

| NULL | NULL | NULL | Chennai |

| NULL | NULL | NULL | Chennai |

| NULL | NULL | NULL | Chennai |

| NULL | NULL | NULL | Chennai |

| NULL | NULL | NULL | Chennai |

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

10 rows in set (0.00 sec)

mysql> alter table student drop column place;

Query OK, 10 rows affected (0.08 sec)

Records: 10 Duplicates: 0 Warnings: 0

mysql> select \* from student;

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

| Student\_ID | Student\_Name | Student\_Number |

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

| 1 | Navanee | 7358823561 |

| 2 | Makizh | 8962154856 |

| 3 | Karthi | 7569321459 |

| 4 | Kishore | 5698741235 |

| 5 | Lokesh | 9856321459 |

| NULL | NULL | NULL |

| NULL | NULL | NULL |

| NULL | NULL | NULL |

| NULL | NULL | NULL |

| NULL | NULL | NULL |

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

10 rows in set (0.00 sec)

mysql> truncate table student;

Query OK, 0 rows affected (0.01 sec)

mysql> select \* from student

-> select \* from student;

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 'select \* from student' at line 2

mysql> select \* from student;

Empty set (0.00 sec)

mysql> CREATE DATABASE Hospital;

Query OK, 1 row affected (0.01 sec)

mysql> use Hospital;

Database changed

mysql> CREATE TABLE Doctor(Did char(4), Dname varchar(20), Dage int, Dspecialist varchar(20), Dcity varchar(20));

Query OK, 0 rows affected (0.23 sec)

mysql> Insert into Doctor Values ('D001', 'Aarthi', 29, 'ortho', 'Chennai');

Query OK, 1 row affected (0.04 sec)

mysql> select \* from doctor;

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

| Did | Dname | Dage | Dspecialist | Dcity |

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

| D001 | Aarthi | 29 | ortho | Chennai |

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

1 row in set (3.78 sec)

mysql> select \* from doctor;

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

| Did | Dname | Dage | Dspecialist | Dcity |

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

| D001 | Aarthi | 29 | ortho | Chennai |

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

1 row in set (0.00 sec)

mysql> Insert into Doctor (Did, Dname, Dage, Dspecialist, Dcity) Values ('D002', 'Priya', 30, 'Cardio', 'Hyderabad'), ('D001', 'Megha', 31, 'Ortho', 'Bangalore');

Query OK, 2 rows affected (0.01 sec)

Records: 2 Duplicates: 0 Warnings: 0

mysql> select \* from Doctor;

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

| Did | Dname | Dage | Dspecialist | Dcity |

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

| D001 | Aarthi | 29 | ortho | Chennai |

| D002 | Priya | 30 | Cardio | Hyderabad |

| D001 | Megha | 31 | Ortho | Bangalore |

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

3 rows in set (0.00 sec)

mysql> Update doctor set Did=3 where Dname='Megha';

Query OK, 1 row affected (0.02 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from Doctor;

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

| Did | Dname | Dage | Dspecialist | Dcity |

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

| D001 | Aarthi | 29 | ortho | Chennai |

| D002 | Priya | 30 | Cardio | Hyderabad |

| 3 | Megha | 31 | Ortho | Bangalore |

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

3 rows in set (0.00 sec)

mysql> Delete from doctor where Did='3';

Query OK, 1 row affected (0.01 sec)

mysql> select \* from doctor;

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

| Did | Dname | Dage | Dspecialist | Dcity |

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

| D001 | Aarthi | 29 | ortho | Chennai |

| D002 | Priya | 30 | Cardio | Hyderabad |

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

2 rows in set (0.00 sec)

mysql> select \* from doctor;

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

| Did | Dname | Dage | Dspecialist | Dcity | Dsal |

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

| D001 | Aarthi | 29 | ortho | Chennai | 45000 |

| D002 | Megha | 31 | Cardio | Bangalore | 50000 |

| D003 | Aruna | 30 | Surgeon | Hyderabad | 55000 |

| D004 | Divya | 31 | Ortho | Hyderabad | 50000 |

| D005 | sathish | 29 | suregon | Delhi | 45000 |

| D006 | Kishore | 30 | Cardio | Chennai | 40000 |

| D007 | Nivedha | 31 | Physio | Bangalore | 57000 |

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

7 rows in set (0.02 sec)

mysql> select \* from doctor where Dcity='chennai' and Dsal>=40000;

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

| Did | Dname | Dage | Dspecialist | Dcity | Dsal |

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

| D001 | Aarthi | 29 | ortho | Chennai | 45000 |

| D006 | Kishore | 30 | Cardio | Chennai | 40000 |

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

2 rows in set (0.09 sec)

mysql> select \* from doctor where Dcity='Bangalore' or Dspecialist = 'cardio';

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

| Did | Dname | Dage | Dspecialist | Dcity | Dsal |

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

| D002 | Megha | 31 | Cardio | Bangalore | 50000 |

| D006 | Kishore | 30 | Cardio | Chennai | 40000 |

| D007 | Nivedha | 31 | Physio | Bangalore | 57000 |

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

3 rows in set (0.10 sec)

mysql> select Dname as Doctor, Dspecialist as Role from doctor;

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

| Doctor | Role |

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

| Aarthi | ortho |

| Megha | Cardio |

| Aruna | Surgeon |

| Divya | Ortho |

| sathish | suregon |

| Kishore | Cardio |

| Nivedha | Physio |

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

7 rows in set (0.13 sec)

mysql> select Did, Dcity from doctor group by dcity having Dspecialist='ortho';

ERROR 1054 (42S22): Unknown column 'Dspecialist' in 'having clause'

mysql> select Dspecialist, Dcity from doctor group by Dcity having Dspecialist='ortho';

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

| Dspecialist | Dcity |

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

| ortho | Chennai |

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

1 row in set (0.04 sec)

mysql> select Did, Dcity from doctor group by Dcity;

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

| Did | Dcity |

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

| D002 | Bangalore |

| D001 | Chennai |

| D005 | Delhi |

| D003 | Hyderabad |

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

4 rows in set (0.14 sec)

mysql> select \* from doctor order by Dcity asc, Dspecialist desc;

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

| Did | Dname | Dage | Dspecialist | Dcity | Dsal |

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

| D007 | Nivedha | 31 | Physio | Bangalore | 57000 |

| D002 | Megha | 31 | Cardio | Bangalore | 50000 |

| D001 | Aarthi | 29 | ortho | Chennai | 45000 |

| D006 | Kishore | 30 | Cardio | Chennai | 40000 |

| D005 | sathish | 29 | suregon | Delhi | 45000 |

| D003 | Aruna | 30 | Surgeon | Hyderabad | 55000 |

| D004 | Divya | 31 | Ortho | Hyderabad | 50000 |

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

7 rows in set (0.13 sec)

mysql> select \* from doctor order by Dcity asc, Dsalary desc;

ERROR 1054 (42S22): Unknown column 'Dsalary' in 'order clause'

mysql> select \* from doctor order by Dcity asc, Dsal desc;

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

| Did | Dname | Dage | Dspecialist | Dcity | Dsal |

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

| D007 | Nivedha | 31 | Physio | Bangalore | 57000 |

| D002 | Megha | 31 | Cardio | Bangalore | 50000 |

| D001 | Aarthi | 29 | ortho | Chennai | 45000 |

| D006 | Kishore | 30 | Cardio | Chennai | 40000 |

| D005 | sathish | 29 | suregon | Delhi | 45000 |

| D003 | Aruna | 30 | Surgeon | Hyderabad | 55000 |

| D004 | Divya | 31 | Ortho | Hyderabad | 50000 |

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

7 rows in set (0.00 sec)

mysql> select Dname, Dsal\*12 as AnnualIncome from doctor;

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

| Dname | AnnualIncome |

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

| Aarthi | 540000 |

| Megha | 600000 |

| Aruna | 660000 |

| Divya | 600000 |

| sathish | 540000 |

| Kishore | 480000 |

| Nivedha | 684000 |

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

7 rows in set (0.13 sec)

mysql> select Dname as Doctor, Dage+3 as Age, Dsal\*12 as AnnualIncome from doctor;

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

| Doctor | Age | AnnualIncome |

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

| Aarthi | 32 | 540000 |

| Megha | 34 | 600000 |

| Aruna | 33 | 660000 |

| Divya | 34 | 600000 |

| sathish | 32 | 540000 |

| Kishore | 33 | 480000 |

| Nivedha | 34 | 684000 |

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

7 rows in set (0.00 sec)

mysql> select \* from doctor;

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

| Did | Dname | Dage | Dspecialist | Dcity | Dsal |

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

| D001 | Aarthi | 29 | ortho | Chennai | 45000 |

| D002 | Megha | 31 | Cardio | Bangalore | 50000 |

| D003 | Aruna | 30 | Surgeon | Hyderabad | 55000 |

| D004 | Divya | 31 | Ortho | Hyderabad | 50000 |

| D005 | sathish | 29 | suregon | Delhi | 45000 |

| D006 | Kishore | 30 | Cardio | Chennai | 40000 |

| D007 | Nivedha | 31 | Physio | Bangalore | 57000 |

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

7 rows in set (0.00 sec)

mysql> commit;

Query OK, 0 rows affected (0.00 sec)

mysql> start transaction;

Query OK, 0 rows affected (0.00 sec)

mysql> SavePoint X;

Query OK, 0 rows affected (0.00 sec)

mysql> insert into doctor values ('D008', 'Naveen', 29, 'surgeon', 'Pune', 47000);

Query OK, 1 row affected (0.00 sec)

mysql> SavePoint Y;

Query OK, 0 rows affected (0.00 sec)

mysql> insert into doctor values ('D009', 'Pradeep', 29, 'Ortho', 'Coimbatore', 49000);

Query OK, 1 row affected (0.00 sec)

mysql> SavePoint Z;

Query OK, 0 rows affected (0.00 sec)

mysql> insert into doctor values ('D010', 'Pradeep', 29, 'cardio', 'Delhi', 53000);

Query OK, 1 row affected (0.00 sec)

mysql> update doctor set Dage=32 where Did='D009';

Query OK, 1 row affected (0.00 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> rollback to SavePoint Z;

Query OK, 0 rows affected (0.00 sec)

mysql> Select \* from doctor;

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

| Did | Dname | Dage | Dspecialist | Dcity | Dsal |

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

| D001 | Aarthi | 29 | ortho | Chennai | 45000 |

| D002 | Megha | 31 | Cardio | Bangalore | 50000 |

| D003 | Aruna | 30 | Surgeon | Hyderabad | 55000 |

| D004 | Divya | 31 | Ortho | Hyderabad | 50000 |

| D005 | sathish | 29 | suregon | Delhi | 45000 |

| D006 | Kishore | 30 | Cardio | Chennai | 40000 |

| D007 | Nivedha | 31 | Physio | Bangalore | 57000 |

| D008 | Naveen | 29 | surgeon | Pune | 47000 |

| D009 | Pradeep | 29 | Ortho | Coimbatore | 49000 |

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

9 rows in set (0.00 sec)

mysql> rollback to SavePoint Y;

Query OK, 0 rows affected (0.00 sec)

mysql> select \* from doctor;

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

| Did | Dname | Dage | Dspecialist | Dcity | Dsal |

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

| D001 | Aarthi | 29 | ortho | Chennai | 45000 |

| D002 | Megha | 31 | Cardio | Bangalore | 50000 |

| D003 | Aruna | 30 | Surgeon | Hyderabad | 55000 |

| D004 | Divya | 31 | Ortho | Hyderabad | 50000 |

| D005 | sathish | 29 | suregon | Delhi | 45000 |

| D006 | Kishore | 30 | Cardio | Chennai | 40000 |

| D007 | Nivedha | 31 | Physio | Bangalore | 57000 |

| D008 | Naveen | 29 | surgeon | Pune | 47000 |

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

8 rows in set (0.00 sec)

mysql> select (20+40) as addition;

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

| addition |

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

| 60 |

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

1 row in set (0.05 sec)

mysql> select current\_timestamp;

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

| current\_timestamp |

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

| 2023-06-28 14:28:56 |

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

1 row in set (0.01 sec)

mysql> select sum(dsal) as Total from doctor;

+--------+

| Total |

+--------+

| 389000 |

+--------+

1 row in set (0.06 sec)