**MySQL Workout Day – 1**

Enter password: \*\*\*\*

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

Your MySQL connection id is 13

Server version: 8.0.36 MySQL Community Server - GPL

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owners.

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

mysql> create database sms\_db;

Query OK, 1 row affected (0.03 sec)

mysql> show dbs;

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 'dbs' at line 1

mysql> show databases;

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

| Database |

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

| information\_schema |

| mysql |

| performance\_schema |

| sakila |

| sms\_db |

| sys |

| world |

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

7 rows in set (0.01 sec)

mysql> use sms\_db;

Database changed

mysql> drop database sms\_db;

Query OK, 0 rows affected (0.04 sec)

mysql> use sms\_db;

ERROR 1049 (42000): Unknown database 'sms\_db'

mysql> /c

-> ;

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 '/c' at line 1

mysql> clear

mysql> create database sms\_db;

Query OK, 1 row affected (0.01 sec)

mysql> use sms\_db;

Database changed

mysql> create table student (sno int, sname varchar(20), scity varchar2(20), sgender varchar2(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 'varchar2(20), sgender varchar2(20))' at line 1

mysql> create table student (sno int, sname varchar(20), scity varchar(20), sgender varchar(20));

Query OK, 0 rows affected (0.12 sec)

mysql> show tables;

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

| Tables\_in\_sms\_db |

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

| student |

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

1 row in set (0.03 sec)

mysql> desc stud;

ERROR 1146 (42S02): Table 'sms\_db.stud' doesn't exist

mysql> desc student;

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

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

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

| sno | int | YES | | NULL | |

| sname | varchar(20) | YES | | NULL | |

| scity | varchar(20) | YES | | NULL | |

| sgender | varchar(20) | YES | | NULL | |

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

4 rows in set (0.01 sec)

mysql> ALTER TABLE STUD ADD SAGE INT;

ERROR 1146 (42S02): Table 'sms\_db.stud' doesn't exist

mysql> ALTER TABLE STUDENT ADD SAGE INT;

Query OK, 0 rows affected (0.05 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student;

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

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

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

| sno | int | YES | | NULL | |

| sname | varchar(20) | YES | | NULL | |

| scity | varchar(20) | YES | | NULL | |

| sgender | varchar(20) | YES | | NULL | |

| SAGE | int | YES | | NULL | |

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

5 rows in set (0.00 sec)

mysql> alter table student drop sage;

Query OK, 0 rows affected (0.04 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student;

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

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

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

| sno | int | YES | | NULL | |

| sname | varchar(20) | YES | | NULL | |

| scity | varchar(20) | YES | | NULL | |

| sgender | varchar(20) | YES | | NULL | |

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

4 rows in set (0.00 sec)

mysql> alter table student add sage int;

Query OK, 0 rows affected (0.04 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student;

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

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

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

| sno | int | YES | | NULL | |

| sname | varchar(20) | YES | | NULL | |

| scity | varchar(20) | YES | | NULL | |

| sgender | varchar(20) | YES | | NULL | |

| sage | int | YES | | NULL | |

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

5 rows in set (0.00 sec)

mysql> alter table student modify sgender varchar(1);

Query OK, 0 rows affected (0.31 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student;

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

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

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

| sno | int | YES | | NULL | |

| sname | varchar(20) | YES | | NULL | |

| scity | varchar(20) | YES | | NULL | |

| sgender | varchar(1) | YES | | NULL | |

| sage | int | YES | | NULL | |

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

5 rows in set (0.00 sec)

mysql> alter table student modify sgender varchar(1) not null;

Query OK, 0 rows affected (0.18 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student;

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

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

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

| sno | int | YES | | NULL | |

| sname | varchar(20) | YES | | NULL | |

| scity | varchar(20) | YES | | NULL | |

| sgender | varchar(1) | NO | | NULL | |

| sage | int | YES | | NULL | |

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

5 rows in set (0.00 sec)

mysql> alter table student modify sgender varchar(1) primary key;

Query OK, 0 rows affected (0.14 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student;

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

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

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

| sno | int | YES | | NULL | |

| sname | varchar(20) | YES | | NULL | |

| scity | varchar(20) | YES | | NULL | |

| sgender | varchar(1) | NO | PRI | NULL | |

| sage | int | YES | | NULL | |

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

5 rows in set (0.00 sec)

mysql> alter table student modify sgender varchar(1);

Query OK, 0 rows affected (0.02 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student;

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

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

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

| sno | int | YES | | NULL | |

| sname | varchar(20) | YES | | NULL | |

| scity | varchar(20) | YES | | NULL | |

| sgender | varchar(1) | NO | PRI | NULL | |

| sage | int | YES | | NULL | |

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

5 rows in set (0.00 sec)

mysql> rename table student to stud;

Query OK, 0 rows affected (0.05 sec)

mysql> desc student;

ERROR 1146 (42S02): Table 'sms\_db.student' doesn't exist

mysql> desc stud;

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

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

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

| sno | int | YES | | NULL | |

| sname | varchar(20) | YES | | NULL | |

| scity | varchar(20) | YES | | NULL | |

| sgender | varchar(1) | NO | PRI | NULL | |

| sage | int | YES | | NULL | |

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

5 rows in set (0.00 sec)

mysql> alter table stud drop constraint sgender;

ERROR 3940 (HY000): Constraint 'sgender' does not exist.

mysql> alter table stud drop primary key sgender;

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 'sgender' at line 1

mysql> alter table stud drop primary key;

Query OK, 0 rows affected (0.17 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc stud;

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

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

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

| sno | int | YES | | NULL | |

| sname | varchar(20) | YES | | NULL | |

| scity | varchar(20) | YES | | NULL | |

| sgender | varchar(1) | NO | | NULL | |

| sage | int | YES | | NULL | |

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

5 rows in set (0.00 sec)

mysql> insert into stud values (28, 'Nagarjun', 'Madurai', 'M', 23);

Query OK, 1 row affected (0.02 sec)

mysql> insert into stud values (2, 'NS', 'Chennai', 'M', 22), (1, 'Arjun', 'Manamadurai', 'M', 24);

Query OK, 2 rows affected (0.01 sec)

Records: 2 Duplicates: 0 Warnings: 0

mysql> select \* from stud;

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

| sno | sname | scity | sgender | sage |

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

| 28 | Nagarjun | Madurai | M | 23 |

| 2 | NS | Chennai | M | 22 |

| 1 | Arjun | Manamadurai | M | 24 |

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

3 rows in set (0.00 sec)

mysql> select sno from stud;

+------+

| sno |

+------+

| 28 |

| 2 |

| 1 |

+------+

3 rows in set (0.00 sec)

mysql> select sname from stud;

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

| sname |

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

| Nagarjun |

| NS |

| Arjun |

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

3 rows in set (0.00 sec)

mysql> select sgender from stud;

+---------+

| sgender |

+---------+

| M |

| M |

| M |

+---------+

3 rows in set (0.00 sec)

mysql> update stud set scity="Bangalore" where sno=2;

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from stud;

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

| sno | sname | scity | sgender | sage |

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

| 28 | Nagarjun | Madurai | M | 23 |

| 2 | NS | Bangalore | M | 22 |

| 1 | Arjun | Manamadurai | M | 24 |

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

3 rows in set (0.00 sec)

mysql> update stud set scity="Hyderabad" where sno=2 or scity="Madurai";

Query OK, 2 rows affected (0.01 sec)

Rows matched: 2 Changed: 2 Warnings: 0

mysql> select \* from stud;

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

| sno | sname | scity | sgender | sage |

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

| 28 | Nagarjun | Hyderabad | M | 23 |

| 2 | NS | Hyderabad | M | 22 |

| 1 | Arjun | Manamadurai | M | 24 |

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

3 rows in set (0.00 sec)

mysql> update stud set city='Madurai' where sno=28;

ERROR 1054 (42S22): Unknown column 'city' in 'field list'

mysql> update stud set scity='Madurai' where sno=28;

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from stud;

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

| sno | sname | scity | sgender | sage |

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

| 28 | Nagarjun | Madurai | M | 23 |

| 2 | NS | Hyderabad | M | 22 |

| 1 | Arjun | Manamadurai | M | 24 |

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

3 rows in set (0.00 sec)

mysql> delete from stud where sno=2;

Query OK, 1 row affected (0.01 sec)

mysql> select \* from stud;

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

| sno | sname | scity | sgender | sage |

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

| 28 | Nagarjun | Madurai | M | 23 |

| 1 | Arjun | Manamadurai | M | 24 |

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

2 rows in set (0.00 sec)

mysql> commit;

Query OK, 0 rows affected (0.00 sec)

mysql> restore cluster

-> ;

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 'restore cluster' at line 1

mysql> select \* from stud where sname like '%un';

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

| sno | sname | scity | sgender | sage |

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

| 28 | Nagarjun | Madurai | M | 23 |

| 1 | Arjun | Manamadurai | M | 24 |

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

2 rows in set (0.00 sec)

mysql> select \* from stud where sname like 'un%';

Empty set (0.00 sec)

mysql> select \* from stud where sname like 'N%';

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

| sno | sname | scity | sgender | sage |

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

| 28 | Nagarjun | Madurai | M | 23 |

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

1 row in set (0.00 sec)

mysql> select \* from stud where sname like '%rj%';

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

| sno | sname | scity | sgender | sage |

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

| 28 | Nagarjun | Madurai | M | 23 |

| 1 | Arjun | Manamadurai | M | 24 |

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

2 rows in set (0.00 sec)

mysql> select \* from stud where scity in ("Madurai", "Manamadurai");

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

| sno | sname | scity | sgender | sage |

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

| 28 | Nagarjun | Madurai | M | 23 |

| 1 | Arjun | Manamadurai | M | 24 |

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

2 rows in set (0.00 sec)

mysql> select \* from stud where scity in ("Madurai");

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

| sno | sname | scity | sgender | sage |

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

| 28 | Nagarjun | Madurai | M | 23 |

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

1 row in set (0.00 sec)

mysql> select \* from stud order by scity;

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

| sno | sname | scity | sgender | sage |

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

| 28 | Nagarjun | Madurai | M | 23 |

| 1 | Arjun | Manamadurai | M | 24 |

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

2 rows in set (0.00 sec)

mysql> select \* from stud order by scity desc;

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

| sno | sname | scity | sgender | sage |

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

| 1 | Arjun | Manamadurai | M | 24 |

| 28 | Nagarjun | Madurai | M | 23 |

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

2 rows in set (0.00 sec)

mysql> select \* from stud order by scity desc,sage;

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

| sno | sname | scity | sgender | sage |

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

| 1 | Arjun | Manamadurai | M | 24 |

| 28 | Nagarjun | Madurai | M | 23 |

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

2 rows in set (0.00 sec)