7/7/2020 Practice Session(DBMS) Sanjay Rawat(7341)

Enter password: \*\*\*\*\*\*\*\*\*\*\*\*

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

Your MySQL connection id is 20

Server version: 8.0.20 MySQL Community Server - GPL

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owners.

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

mysql> select version();

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

| version() |

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

| 8.0.20 |

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

1 row in set (0.05 sec)

mysql> select now();

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

| now() |

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

| 2020-07-07 09:18:37 |

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

1 row in set (0.03 sec)

mysql> select 1+1;

+-----+

| 1+1 |

+-----+

| 2 |

+-----+

1 row in set (0.04 sec)

mysql> select sin(pi()/4),(4+1)/5;

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

| sin(pi()/4) | (4+1)/5 |

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

| 0.7071067811865476 | 1.0000 |

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

1 row in set (0.06 sec)

mysql> show databases;

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

| Database |

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

| information\_schema |

| mysql |

| performance\_schema |

| sakila |

| sys |

| test |

| world |

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

7 rows in set (0.01 sec)

mysql> drop test;

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 'test' at line 1

mysql> delete test;

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> create database southwind;

Query OK, 1 row affected (0.40 sec)

mysql> show databases;

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

| Database |

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

| information\_schema |

| mysql |

| performance\_schema |

| sakila |

| southwind |

| sys |

| test |

| world |

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

8 rows in set (0.00 sec)

mysql> use southwind;

Database changed

mysql> select database();

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

| database() |

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

| southwind |

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

1 row in set (0.00 sec)

mysql> show tables();

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> show tables;

Empty set (0.07 sec)

mysql> use world;

Database changed

mysql> select database();

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

| database() |

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

| world |

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

1 row in set (0.00 sec)

mysql> show tables;

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

| Tables\_in\_world |

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

| city |

| country |

| countrylanguage |

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

3 rows in set (0.00 sec)

mysql> desc city;

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

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

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

| ID | int | NO | PRI | NULL | auto\_increment |

| Name | char(35) | NO | | | |

| CountryCode | char(3) | NO | MUL | | |

| District | char(20) | NO | | | |

| Population | int | NO | | 0 | |

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

5 rows in set (0.26 sec)

mysql> clear;

mysql> use southwind;

Database changed

mysql> create table student;

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

mysql> create table student (id int,name char(10));

Query OK, 0 rows affected (2.24 sec)

mysql> show tables;

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

| Tables\_in\_southwind |

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

| student |

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

1 row in set (0.13 sec)

mysql> desc table student;

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

| id | select\_type | table | partitions | type | possible\_keys | key | key\_len | ref | rows | filtered | Extra |

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

| 1 | SIMPLE | student | NULL | ALL | NULL | NULL | NULL | NULL | 1 | 100.00 | NULL |

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

1 row in set, 1 warning (0.22 sec)

mysql> desc student;

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

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

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

| id | int | YES | | NULL | |

| name | char(10) | YES | | NULL | |

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

2 rows in set (0.04 sec)

mysql> show create table student \G;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* 1. row \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Table: student

Create Table: CREATE TABLE `student` (

`id` int DEFAULT NULL,

`name` char(10) DEFAULT NULL

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci

1 row in set (0.03 sec)

ERROR:

No query specified

mysql> inset into student values(1,'Sanjay Rawat');

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 'inset into student values(1,'Sanjay Rawat')' at line 1

mysql> inset into student values(1,'Sanjay');

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 'inset into student values(1,'Sanjay')' at line 1

mysql> insert into student values(1,'Sanjay Rawat');

ERROR 1406 (22001): Data too long for column 'name' at row 1

mysql> insert into student values(1,'Sanjay');

Query OK, 1 row affected (0.19 sec)

mysql> insert into student (id,name) values(2,'Anish'),(3,'Aman');

Query OK, 2 rows affected (0.13 sec)

Records: 2 Duplicates: 0 Warnings: 0

mysql> select \* from student;

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

| id | name |

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

| 1 | Sanjay |

| 2 | Anish |

| 3 | Aman |

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

3 rows in set (0.00 sec)

mysql> select id from student;

+------+

| id |

+------+

| 1 |

| 2 |

| 3 |

+------+

3 rows in set (0.00 sec)

mysql> select name from student where id<3;

+--------+

| name |

+--------+

| Sanjay |

| Anish |

+--------+

2 rows in set (0.00 sec)

mysql> insert into student values(2,'Rahul');

Query OK, 1 row affected (0.11 sec)

mysql> select \* from student;

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

| id | name |

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

| 1 | Sanjay |

| 2 | Anish |

| 3 | Aman |

| 2 | Rahul |

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

4 rows in set (0.00 sec)

mysql> desc student;

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

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

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

| id | int | YES | | NULL | |

| name | char(10) | YES | | NULL | |

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

2 rows in set (0.00 sec)

mysql> alter table student add column address varchar(30) not null;

Query OK, 0 rows affected (1.35 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student;

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

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

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

| id | int | YES | | NULL | |

| name | char(10) | YES | | NULL | |

| address | varchar(30) | NO | | NULL | |

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

3 rows in set (0.04 sec)

mysql> alter table student drop column address;

Query OK, 0 rows affected (1.47 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student;

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

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

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

| id | int | YES | | NULL | |

| name | char(10) | YES | | NULL | |

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

2 rows in set (0.00 sec)

mysql> alter table student add column address varchar(30) not null;

Query OK, 0 rows affected (0.31 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> select\*from student;

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

| id | name | address |

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

| 1 | Sanjay | |

| 2 | Anish | |

| 3 | Aman | |

| 2 | Rahul | |

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

4 rows in set (0.00 sec)

mysql> alter table student add primary key ('id');

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 ''id')' at line 1

mysql> alter table student add primary key (id);

ERROR 1062 (23000): Duplicate entry '2' for key 'student.PRIMARY'

mysql> delete from student where id=2;

Query OK, 2 rows affected (0.21 sec)

mysql> select\*from student;

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

| id | name | address |

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

| 1 | Sanjay | |

| 3 | Aman | |

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

2 rows in set (0.00 sec)

mysql> alter table student add primary key (id);

Query OK, 0 rows affected (1.31 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student;

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

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

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

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

| name | char(10) | YES | | NULL | |

| address | varchar(30) | NO | | NULL | |

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

3 rows in set (0.00 sec)

mysql> insert into student values(1,'anish','uttrakhand');

ERROR 1062 (23000): Duplicate entry '1' for key 'student.PRIMARY'