

Assignment: Data Definition Language commands

Date: 23/09/2020 Name: D.Saravanan

1. Create table with name school.

```
mysql> create database assignment;
Query OK, 1 row affected (0.77 sec)

mysql> show databases;
+-----+
| Database |
+-----+
| assignment |
| dataset |
| information_schema |
| module |
| mysql |
| performance_schema |
| sys |
+-----+
7 rows in set (0.01 sec)

mysql> use assignment;
Database changed
mysql> show tables;
Empty set (0.00 sec)

mysql> create table school(Roll_Id smallint unsigned auto_increment primary key,
-> Last_Name varchar(15),
-> First_Name varchar(15),
-> Age tinyint unsigned,
-> Gender enum('Male', 'Female'),
-> Date_Birth date);
Query OK, 0 rows affected (0.65 sec)

mysql> describe school;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Roll_Id | smallint unsigned | NO | PRI | NULL | auto_increment |
| Last_Name | varchar(15) | YES | | NULL | |
| First_Name | varchar(15) | YES | | NULL | |
| Age | tinyint unsigned | YES | | NULL | |
| Gender | enum('Male', 'Female') | YES | | NULL | |
| Date_Birth | date | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.01 sec)

mysql> select * from school;
Empty set (0.01 sec)

mysql> █
```

2. Insert 5 records in that table.

```
mysql> show columns in school;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Roll_Id | smallint unsigned | NO | PRI | NULL | auto_increment |
| Last_Name | varchar(15) | YES | | NULL | |
| First_Name | varchar(15) | YES | | NULL | |
| Age | tinyint unsigned | YES | | NULL | |
| Gender | enum('Male', 'Female') | YES | | NULL | |
| Date_Birth | date | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)

mysql> select * from school;
Empty set (0.00 sec)

mysql> insert into school(Last_Name, First_Name, Age, Gender, Date_Birth)
-> values('Wallace', 'Christopher', 12, 'Male', '2008-10-12');
Query OK, 1 row affected (0.18 sec)

mysql> insert into school(Last_Name, First_Name, Age, Gender, Date_Birth)
-> values('Scully', 'Steven', 10, 'Male', '2010-09-17');
Query OK, 1 row affected (0.25 sec)

mysql> insert into school(Last_Name, First_Name, Age, Gender, Date_Birth)
-> values('Welker', 'Kristen', 11, 'Female', '2009-07-01');
Query OK, 1 row affected (0.18 sec)

mysql> insert into school(Last_Name, First_Name, Age, Gender, Date_Birth)
-> values('Page', 'Susan', 12, 'Female', '2008-02-12');
Query OK, 1 row affected (0.24 sec)

mysql> insert into school(Last_Name, First_Name, Age, Gender, Date_Birth)
-> values('Cooper', 'Anderson', 13, 'Male', '2007-06-03');
Query OK, 1 row affected (0.19 sec)

mysql> select * from school;
+-----+-----+-----+-----+-----+-----+
| Roll_Id | Last_Name | First_Name | Age | Gender | Date_Birth |
+-----+-----+-----+-----+-----+-----+
| 1 | Wallace | Christopher | 12 | Male | 2008-10-12 |
| 2 | Scully | Steven | 10 | Male | 2010-09-17 |
| 3 | Welker | Kristen | 11 | Female | 2009-07-01 |
| 4 | Page | Susan | 12 | Female | 2008-02-12 |
| 5 | Cooper | Anderson | 13 | Male | 2007-06-03 |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.01 sec)

mysql> █
```

3. Alter and modify the table.

```
mysql> select * from school;
+-----+-----+-----+-----+-----+-----+
| Roll_Id | Last_Name | First_Name | Age | Gender | Date_Birth |
+-----+-----+-----+-----+-----+-----+
| 1 | Wallace | Christopher | 12 | Male | 2008-10-12 |
| 2 | Scully | Steven | 10 | Male | 2010-09-17 |
| 3 | Welker | Kristen | 11 | Female | 2009-07-01 |
| 4 | Page | Susan | 12 | Female | 2008-02-12 |
| 5 | Cooper | Anderson | 13 | Male | 2007-06-03 |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> alter table school change Date_Birth Date_of_Birth date;
Query OK, 0 rows affected (0.89 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> select * from school;
+-----+-----+-----+-----+-----+-----+
| Roll_Id | Last_Name | First_Name | Age | Gender | Date_of_Birth |
+-----+-----+-----+-----+-----+-----+
| 1 | Wallace | Christopher | 12 | Male | 2008-10-12 |
| 2 | Scully | Steven | 10 | Male | 2010-09-17 |
| 3 | Welker | Kristen | 11 | Female | 2009-07-01 |
| 4 | Page | Susan | 12 | Female | 2008-02-12 |
| 5 | Cooper | Anderson | 13 | Male | 2007-06-03 |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> alter table school add column Date_of_Admission date;
Query OK, 0 rows affected (0.57 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> update school set Date_of_Admission = '2019-07-25' where 1 = 1;
Query OK, 5 rows affected (0.12 sec)
Rows matched: 5 Changed: 5 Warnings: 0

mysql> select * from school;
+-----+-----+-----+-----+-----+-----+-----+
| Roll_Id | Last_Name | First_Name | Age | Gender | Date_of_Birth | Date_of_Admission |
+-----+-----+-----+-----+-----+-----+-----+
| 1 | Wallace | Christopher | 12 | Male | 2008-10-12 | 2019-07-25 |
| 2 | Scully | Steven | 10 | Male | 2010-09-17 | 2019-07-25 |
| 3 | Welker | Kristen | 11 | Female | 2009-07-01 | 2019-07-25 |
| 4 | Page | Susan | 12 | Female | 2008-02-12 | 2019-07-25 |
| 5 | Cooper | Anderson | 13 | Male | 2007-06-03 | 2019-07-25 |
+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql>
```

4. Finally truncate and drop the table.

```
mysql> select * from school;
+-----+-----+-----+-----+-----+-----+-----+
| Roll_Id | Last_Name | First_Name | Age | Gender | Date_of_Birth | Date_of_Admission |
+-----+-----+-----+-----+-----+-----+-----+
| 1 | Wallace | Christopher | 12 | Male | 2008-10-12 | 2019-07-25 |
| 2 | Scully | Steven | 10 | Male | 2010-09-17 | 2019-07-25 |
| 3 | Welker | Kristen | 11 | Female | 2009-07-01 | 2019-07-25 |
| 4 | Page | Susan | 12 | Female | 2008-02-12 | 2019-07-25 |
| 5 | Cooper | Anderson | 13 | Male | 2007-06-03 | 2019-07-25 |
+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> truncate table school;
Query OK, 0 rows affected (1.75 sec)

mysql> select * from school;
Empty set (0.00 sec)

mysql> show tables;
+-----+
| Tables_in_assignment |
+-----+
| school |
+-----+
1 row in set (0.00 sec)

mysql> drop table school;
Query OK, 0 rows affected (0.68 sec)

mysql> show tables;
Empty set (0.00 sec)

mysql>
```