1)

mysql> create database school;

Query OK, 1 row affected (0.02 sec)

mysql> show databases;

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

| Database |

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

| cadd |

| dailydatabase |

| employee |

| information\_schema |

| j\_k\_company |

| mysql |

| performance\_schema |

| pr |

| practices |

| school |

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

10 rows in set (0.01 sec)

mysql> use school

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 'school' at line 1

mysql> drop database school;

Query OK, 0 rows affected (0.04 sec)

2)

mysql> create database school;

Query OK, 1 row affected (0.01 sec)

mysql> use school;

Database changed

mysql> create table students(Id int primary key Auto\_increment, name varchar(50) not null, age int, grade varchar(10), email varchar(50) unique);

Query OK, 0 rows affected (0.04 sec)

mysql> explain students;

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

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

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

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

| name | varchar(50) | NO | | NULL | |

| age | int | YES | | NULL | |

| grade | varchar(10) | YES | | NULL | |

| email | varchar(50) | YES | UNI | NULL | |

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

5 rows in set (0.00 sec)

mysql> insert into students(name, age, grade, email)values("Pooja", 18, "A", "po@gmail.com"), ("Sunita", 19, "A", "Su23@gmail.com"), ("Somya", 19, "B", "S@gmail.com"),("Uma", 16, "O", "Uilu@gmail.com"), ("Vamika", 16, "O+", "Vajay@gmail.com");

Query OK, 5 rows affected (0.01 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> select \* from students;

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

| Id | name | age | grade | email |

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

| 1 | Pooja | 18 | A | po@gmail.com |

| 2 | Sunita | 19 | A | Su23@gmail.com |

| 3 | Somya | 19 | B | S@gmail.com |

| 4 | Uma | 16 | O | Uilu@gmail.com |

| 5 | Vamika | 16 | O+ | Vajay@gmail.com |

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

5 rows in set (0.00 sec)

3)

mysql> insert into students values(6,"John Doe", 16, "10th", "John.doe@exmple.com")

-> ;

Query OK, 1 row affected (0.01 sec)

mysql> select \* from students;

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

| Id | name | age | grade | email |

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

| 1 | Pooja | 18 | A | po@gmail.com |

| 2 | Sunita | 19 | A | Su23@gmail.com |

| 3 | Somya | 19 | B | S@gmail.com |

| 4 | Uma | 16 | O | Uilu@gmail.com |

| 5 | Vamika | 16 | O+ | Vajay@gmail.com |

| 6 | John Doe | 16 | 10th | John.doe@exmple.com |

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

6 rows in set (0.00 sec)

mysql> select name, grade from students;

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

| name | grade |

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

| Pooja | A |

| Sunita | A |

| Somya | B |

| Uma | O |

| Vamika | O+ |

| John Doe | 10th |

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

6 rows in set (0.00 sec)

4)

mysql> alter table students add column address varchar(100);

Query OK, 0 rows affected (0.04 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table students modify grade varchar(10) not null;

Query OK, 0 rows affected (0.11 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> explain students;

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

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

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

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

| name | varchar(50) | NO | | NULL | |

| age | int | YES | | NULL | |

| grade | varchar(10) | NO | | NULL | |

| email | varchar(50) | YES | UNI | NULL | |

| address | varchar(100) | YES | | NULL | |

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

6 rows in set (0.00 sec)

mysql> alter table students drop email;

Query OK, 0 rows affected (0.07 sec)

Records: 0 Duplicates: 0 Warnings: 0

5)

mysql> update students set age=17 where grade="10th";

Query OK, 2 rows affected (0.01 sec)

Rows matched: 2 Changed: 2 Warnings: 0

mysql> delete from students where age<=16;

Query OK, 2 rows affected (0.01 sec)

mysql> select \* from students;

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

| Id | name | age | grade | email |

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

| 1 | Pooja | 17 | 10th | po@gmail.com |

| 2 | Sunita | 17 | 10th | Su23@gmail.com |

| 3 | Somya | 19 | 9th | S@gmail.com |

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

3 rows in set (0.00 sec)

mysql> trucate table students;

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 'trucate table students' at line 1

mysql> truncate table students;

Query OK, 0 rows affected (0.05 sec)

mysql> select \* from students;

Empty set (0.00 sec)

6)

mysql> select \* from students where age>=16;

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

| Id | name | age | grade | email |

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

| 1 | Uma | 16 | 10th | Uilu@gmail.com |

| 2 | Vamika | 16 | 5th | Vajay@gmail.com |

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

2 rows in set (0.00 sec)

mysql> select \* from students where grade="10th" and age=16;

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

| Id | name | age | grade | email |

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

| 1 | Uma | 16 | 10th | Uilu@gmail.com |

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

1 row in set (0.00 sec)

mysql> select \*, concat(name , " " , grade) as full\_name from students;

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

| Id | name | age | grade | email | full\_name |

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

| 1 | Uma | 16 | 10th | Uilu@gmail.com | Uma 10th |

| 2 | Vamika | 16 | 5th | Vajay@gmail.com | Vamika 5th |

| 3 | sundar | 15 | 8th | sun2gmail.com | sundar 8th |

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

3 rows in set (0.00 sec)

8)

mysql> alter table students modify name varchar(20) not null;

Query OK, 3 rows affected (0.08 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> explain students;

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

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

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

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

| name | varchar(20) | NO | | NULL | |

| age | int | YES | | NULL | |

| grade | varchar(10) | YES | | NULL | |

| email | varchar(50) | YES | UNI | NULL | |

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

5 rows in set (0.00 sec)

mysql> create table teachers(id int primary key auto\_increment, name varchar(50) unique, email varchar(50) not null uniq

ue);

Query OK, 0 rows affected (0.04 sec)

mysql> insert into teachers(name, email)values("Riya Singh", "Ro@gmail.com"), ("Hemant Yadav", "Yad23@gmail.com"), ("Tina aroda", "Tr234@gmail.com");

Query OK, 3 rows affected (0.01 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> select \* from teachers;

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

| id | name | email |

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

| 1 | Riya Singh | Ro@gmail.com |

| 2 | Hemant Yadav | Yad23@gmail.com |

| 3 | Tina aroda | Tr234@gmail.com |

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

3 rows in set (0.00 sec)