

```
MySQL 5.5 Command Line Cli  X  +  ▾

mysql> create database kavya;
Query OK, 1 row affected (0.00 sec)

mysql> create table sch(regno int primary key,name varchar(30),gender char(1),dept char(3));
Query OK, 0 rows affected (0.02 sec)

mysql> desc sch;
+-----+-----+-----+-----+-----+
| Field | Type   | Null | Key  | Default | Extra |
+-----+-----+-----+-----+-----+
| regno | int(11) | NO   | PRI  | NULL    |       |
| name  | varchar(30)| YES  |       | NULL    |       |
| gender | char(1) | YES  |       | NULL    |       |
| dept  | char(3) | YES  |       | NULL    |       |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

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

mysql> insert into sch(regno,name,gender,dept)values(1,'kavya','f','cse');
Query OK, 1 row affected (0.02 sec)

mysql> insert into sch(regno,name,gender,dept)values(2,'lohittha','f','cse');
Query OK, 1 row affected (0.02 sec)

mysql> insert into sch(regno,name,gender,dept)values(3,'bhumi','m','eee');
Query OK, 1 row affected (0.00 sec)

mysql> insert into sch(regno,name,gender,dept)values(4,'madhu','m','ece');
Query OK, 1 row affected (0.00 sec)

mysql> desc sch;
```

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Search



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Query OK, 1 row affected (0.00 sec)

mysql> desc sch;
+-----+-----+-----+-----+-----+
| Field | Type   | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| regno | int(11) | NO   | PRI | NULL    |       |
| name  | varchar(30) | YES  |     | NULL    |       |
| gender | char(1)  | YES  |     | NULL    |       |
| dept  | char(3)  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)

mysql> select*from sch;
+-----+-----+-----+-----+
| regno | name   | gender | dept  |
+-----+-----+-----+-----+
| 1     | kavya  | f      | cse   |
| 2     | lohitha | f      | cse   |
| 3     | bhumi  | m      | eee   |
| 4     | madhu  | m      | ece   |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> alter table sch add cgpa float;
Query OK, 4 rows affected (0.01 sec)
Records: 4  Duplicates: 0  Warnings: 0

mysql> select*from sch;
+-----+-----+-----+-----+-----+
| regno | name   | gender | dept  | cgpa |
+-----+-----+-----+-----+-----+
| 1     | kavya  | f      | cse   | NULL  |
| 2     | lohitha | f      | cse   | NULL  |
| 3     | bhumi  | m      | eee   | NULL  |
| 4     | madhu  | m      | ece   | NULL  |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

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+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> truncate sch cgpa;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual
gpa' at line 1
mysql> truncate table cgpa;
ERROR 1146 (42S02): Table 'mydbms.cgpa' doesn't exist
mysql> truncate table sch;
Query OK, 0 rows affected (0.00 sec)

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

mysql> create table sch(regno int primary key,name varchar(30),gender char(1)
ERROR 1050 (42S01): Table 'sch' already exists
mysql> drop table sch;
Query OK, 0 rows affected (0.00 sec)

mysql> create table sch(regno int primary key,name varchar(30),gender char(1)
Query OK, 0 rows affected (0.02 sec)

mysql> create database kavya;
ERROR 1007 (HY000): Can't create database 'kavya'; database exists
mysql> drop database kavya;
Query OK, 0 rows affected (0.00 sec)

mysql> create database kavya;
Query OK, 1 row affected (0.00 sec)

mysql> create table sch(regno int primary key,name varchar(30),gender char(1),
ERROR 1050 (42S01): Table 'sch' already exists
mysql> drop table sch;
Query OK, 0 rows affected (0.02 sec)

mysql> create table sch(regno int primary key,name varchar(30),gender char(1),
Query OK, 0 rows affected (0.02 sec)

mysql> |
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mysql> update clg set cgpa=8.1 where regno=1;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> update clg set cgpa=8.5 where regno=4;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> update clg set cgpa=8.6 where regno=1;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> update clg set cgpa=8.7 where regno=2;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> update clg set cgpa=8.6 where regno=3;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from clg;
+-----+-----+-----+-----+-----+-----+
| regno | name  | age   | gender | dept  | cgpa |
+-----+-----+-----+-----+-----+-----+
|    1  | kavya |    19 | f      | cse   | 8.6  |
|    2  | bhumi |    18 | m      | ece   | 8.7  |
|    3  | madhu |    17 | m      | eee   | 8.6  |
|    4  | lotta |    20 | m      | cse   | 8.5  |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.02 sec)

mysql> select regno,name,age,gender,dept,cgpa from clg where cpga between
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual
o 8.9' at line 1
mysql> select regno,name,age,gender,dept,cgpa from clg where cpga between
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual
o 8.9' at line 1
mysql> select regno,name,age,gender,dept,cgpa from clg where cpga between
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DDL - Commands

* Create : Table create database (mydb1); database name.

create table kavya (regno int primary key, name varchar(30), gender char(1), dept char(3)); stable name.

* Alter :- To add columns
change

1) To add column in table

alter table kavya add marks int(2); column name

2) To delete column in table.

alter table kavya ~~drop~~ ~~add~~ drop marks; column name.

* Drop :- to delete tables

1) To delete table

drop table (kavya); stable name.

2) To delete database

drop database (mydb1); database name.

* Truncate :- To delete data inside the table;

1) To delete table

truncate table kavya;

2)

DML - Commands

* Insert :-

1) To add data inside columns

insert into (kavya) (regno, name, gender, dept) values(1, 'Kavya', 'F', 'CSE'),
values(2, 'Sai', 'M', 'ECE');

* Update :-

1) To create database and its name.
→ create database kavya;
→ ^{DB name}

int(3) = fixed '3'
char(3) = fixed '3'
varchar(5) = until 5 we can use any some.

2) To create table

→ create table Sch (^{table name} regno int primary key, name varchar(30), gender char(1), dept char(3));

3) To check / see ^{describe} table type
→ desc (sch);

4) To fill the data inside table

→ insert into sch (regno, name, gender, dept) values (1, 'kavya', 'F', 'CS'),
→ " " " (..) values (2, 'lohittha', 'M', 'CSE'),
→ .
→ .

5) To see the data in table

→ select * from sch;

6) To add another column to table.

→ alter table sch ^{add} cgpa float;
→ phone int(10);

7) To add cgpa values

→ update sch set cgpa = 8.1 where regno = 1;

→ " " " " = 8.2 " " " " = 2;

8)

DDL - Co

* Create

Create

* Alter

1) To
alter

2) To
. Alter

* Drop

Drop

* 2) Do
D

* Truncate

1) To
truncate

2)

8)

1)

ins

1)

" "

D b m s

Char(2) = fixed 2
 int(2) = fixed 2 for 2 or 3
 varchar(3) = ~~max 3~~ = until 3 anything

DPL

→ Data definition language

→ DDL commands

- Create
- Alter - ~~to~~ change
- Drop - ~~Deletes~~ removes table & database from system
- truncate - removes data from table
- rename

DML

Data manipulation language

→ DML commands

- Select
- insert
- update
- delete

→ create database **Kavya**;

→ create table **Sch**(^{stable name} regno int primary key, name varchar(20), gender char(1), ~~float~~ dept char(3));

→ desc Sch;

field	type	Null	Key	Default	extra
regno	int(11)	NO	Pri	Null	
name		YES		" "	
gender		YES		" "	
dept	%	YES		" "	

→ insert into sch(regno, ~~int~~,
'CSE');

→ insert into sch(" " " ") values(2, 'lohittha', 'F', 'ESE');

;

;

→ select * from sch;

```
MySQL 5.5 Command Line Cli  X  +  v

mysql> select regno,name,age,gender,dept,cgpa from clg where cgpa between 8.6 a
+-----+-----+-----+-----+-----+
| regno | name  | age   | gender | dept   | cgpa |
+-----+-----+-----+-----+-----+
|    1  | kavya |    19 | f      | cse    | 8.6  |
|    2  | bhumi |    18 | m      | ece    | 8.7  |
|    3  | madhu |    17 | m      | eee    | 8.6  |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> select name,age if(gender='m','same',"not same");
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
f(gender='m','same',"not same")' at line 1
mysql> select name,age if(gender='m','same',"not same")from clg;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
f(gender='m','same',"not same")from clg' at line 1
mysql> select name,age,if(gender='m','same',"not same")from clg;
+-----+
| name  | age   | if(gender='m','same',"not same") |
+-----+
| kavya |    19 | not same
| bhumi |    18 | same
| madhu |    17 | same
| lotta |    20 | same
+-----+
4 rows in set (0.00 sec)

mysql> select regno,name where age=age>18 from clg;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that cor
here age=age>18 from clg' at line 1
mysql> select regno,name where age greater than 18 from clg;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corr
here age greater than 18 from clg' at line 1
mysql> select regno,name from clg where age greater than 18;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corre
reater than 18' at line 1
mysql> select regno,name from clg where age=age>18;
Empty set (0.00 sec)
```

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My study



MySQL 5.5 Command Line Cli X + v

```
mysql> select * from clg;
+-----+-----+-----+-----+-----+-----+
| regno | name  | age   | gender | dept  | cgpa |
+-----+-----+-----+-----+-----+-----+
| 1     | kavya | 19    | f      | cse   | 8.6  |
| 2     | bhumi | 18    | m      | ece   | 8.7  |
| 3     | madhu | 17    | m      | eee   | 8.6  |
| 4     | lotta | 20    | m      | cse   | 8.5  |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

```
mysql> select regno, name from clg where age > 18;
+-----+-----+
| regno | name  |
+-----+-----+
| 1     | kavya |
| 4     | lotta |
+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> select regno, name from clg where age >= 18;
+-----+-----+
| regno | name  |
+-----+-----+
| 1     | kavya |
| 2     | bhumi |
| 4     | lotta |
+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> update clg set cgpa = 8.8 where regno = 4;
Query OK, 1 row affected (0.02 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> select * from clg;
+-----+-----+-----+-----+-----+-----+
| regno | name  | age   | gender | dept  | cgpa |
+-----+-----+-----+-----+-----+-----+
```

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May 20, 2018



MySQL 5.5 Command Line Cli X + v

```
mysql> select * from clg;
+-----+-----+-----+-----+-----+-----+
| regno | name  | age   | gender | dept  | cgpa |
+-----+-----+-----+-----+-----+-----+
| 1     | kavya | 19    | f      | cse   | 8.6  |
| 2     | bhumi | 18    | m      | ece   | 8.7  |
| 3     | madhu | 17    | m      | eee   | 8.6  |
| 4     | lotta | 20    | m      | cse   | 8.8  |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

```
mysql> update clg set gender='f' where age=20;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> select * from clg;
+-----+-----+-----+-----+-----+-----+
| regno | name  | age   | gender | dept  | cgpa |
+-----+-----+-----+-----+-----+-----+
| 1     | kavya | 19    | f      | cse   | 8.6  |
| 2     | bhumi | 18    | m      | ece   | 8.7  |
| 3     | madhu | 17    | m      | eee   | 8.6  |
| 4     | lotta | 20    | f      | cse   | 8.8  |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

```
mysql> select name from clg where name like '%a';
+-----+
| name |
+-----+
| kavya |
| lotta |
+-----+
2 rows in set (0.00 sec)
```

```
mysql> select name from clg where name like 'm%';
+-----+
| name |
+-----+
```

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MySQL 5.5 Command Line Cli X + v

```
mysql> select name from clg where name like 'm%';
+-----+
| name |
+-----+
| madhu |
+-----+
1 row in set (0.00 sec)
```

```
mysql> select * from clg where name like '%a';
+-----+-----+-----+-----+-----+
| regno | name  | age   | gender | dept  | cgpa |
+-----+-----+-----+-----+-----+
|    1  | kavya |    19 | f      | cse   |  8.6 |
|    4  | lotta |    20 | f      | cse   |  8.8 |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> select count(dept) from clg where dept='cse';
+-----+
| count(dept) |
+-----+
|          2 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> select count(dept) from clg where dept='it';
+-----+
| count(dept) |
+-----+
|          0 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> select avg(cgpa) * from clg where gender='f';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
rom clg where gender='f' at line 1
mysql> select avg(cgpa) from clg where gender='f';
+-----+
```

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MySQL 5.5 Command Line Cli X + ▾
```

```
mysql> select avg(CGPA) from clg where gender='f';
+-----+
| avg(CGPA) |
+-----+
| 8.700000286102295 |
+-----+
1 row in set (0.00 sec)

mysql> select avg(CGPA) where gender='f' from clg;
ERROR 1064 (42000): You have an error in your SQL syntax
near 'where gender='f' from clg' at line 1
mysql> select avg(CGPA) where gender='f';
ERROR 1064 (42000): You have an error in your SQL syntax
near 'where gender='f'' at line 1
mysql> select gender,avg(CGPA) from clg by gender;
ERROR 1064 (42000): You have an error in your SQL syntax
near 'by gender' at line 1
mysql> select gender,avg(CGPA) from clg group by gender;
+-----+-----+
| gender | avg(CGPA) |
+-----+-----+
| f      | 8.700000286102295 |
| m      | 8.650000095367432 |
+-----+-----+
2 rows in set (0.00 sec)
```

MySQL 5.5 Command Line Cli

```
mysql> select max(CGPA) from clg;
+-----+
| max(CGPA) |
+-----+
| 8.800000190734863 |
+-----+
1 row in set (0.00 sec)

mysql> select max(CGPA) from clg by gender;
ERROR 1064 (42000): You have an error in your SQL syntax
y gender' at line 1
mysql> select name,max(CGPA) from clg by gender;
ERROR 1064 (42000): You have an error in your SQL syntax
y gender' at line 1
mysql> select name,gender,max(CGPA) from clg by gender;
ERROR 1064 (42000): You have an error in your SQL syntax
y gender' at line 1
mysql> select max(CGPA) from clg group by gender;
+-----+
| max(CGPA) |
+-----+
| 8.8 |
| 8.7 |
+-----+
2 rows in set (0.00 sec)

mysql> select name,gender,max(CGPA) from clg group by gender;
+-----+-----+-----+
| name | gender | max(CGPA) |
+-----+-----+-----+
| kavya | f     | 8.8 |
| bhumi | m     | 8.7 |
+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> select name,gender,min(CGPA) from clg group by gender;
+-----+-----+-----+
| name | gender | min(CGPA) |
+-----+-----+-----+
```

MySQL 5.5 Command Line Cli X + v

```
mysql> select max(CGPA) from clg group by age;
+-----+
| max(CGPA) |
+-----+
| 8.6 |
| 8.7 |
| 8.6 |
| 8.8 |
+-----+
4 rows in set (0.00 sec)
```

```
mysql> select name,age from clg where CGPA=(select min(CGPA) from clg);
+-----+-----+
| name | age |
+-----+-----+
| kavya | 19 |
| madhu | 17 |
+-----+-----+
2 rows in set (0.02 sec)
```

```
mysql> select * from clg where CGPA=(select min(CGPA) from clg);
+-----+-----+-----+-----+-----+-----+
| regno | name | age | gender | dept | CGPA |
+-----+-----+-----+-----+-----+-----+
| 1 | kavya | 19 | f | cse | 8.6 |
| 3 | madhu | 17 | m | eee | 8.6 |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> select * from clg where CGPA=(select max(CGPA) from clg);
+-----+-----+-----+-----+-----+-----+
| regno | name | age | gender | dept | CGPA |
+-----+-----+-----+-----+-----+-----+
| 4 | lotta | 20 | f | cse | 8.8 |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> select * from clg where CGPA=(same,if CGPA=8.6 from clg);
```

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