#### Create

#### 1) Query:

mysql> create table tbl\_student (stdId int(4) primary key, stdName varchar(30) not null, sex varchar(1), percentage decimal(5,2), stdClass int, sec varchar(1), stream varchar(10), DOB date );

#### **Output:**

Query OK, 0 rows affected (0.02 sec)

#### **Insert**

#### 2) Query:

mysql> insert into tbl\_student values (1001, "Akshara Agarwal", "F", 70, 11, "A", "Science", "1996/11/10");

#### **Output:**

Query OK, 1 rows affected, 0 warnings (0.01 sec)

Records: 1 Duplicates: 0 Warnings: 0

#### 3) Query:

mysql> insert into tbl\_student values (1002, "Anjani Sharma", "F", 75, 11, "A", "Commerce", "1996/09/18"),

- -> (1003, "Anshul Saxena", "M", 78, 11, "A", "Commerce", "1996/11/19"),
- -> (1004, "Aishwarya Singh", "F", 79, 11, "A", "Commerce", "1996/11/01"),
- -> (1005, "Akriti Saxena", "F", 76, 11, "A", "Commerce", "1996/09/20");

#### **Output:**

Query OK, 4 rows affected, 4 warnings (0.01 sec)

Records: 4 Duplicates: 0 Warnings: 4

#### 4) Query:

mysql> insert into tbl\_student values (1006, "Kushi Agarwal", "F", 77, 11, "A", "Commerce", "2003/09/14"),

- -> (1007, "Maahi Agarwal", "F", 74, 11, "A", "Commerce", "1997/04/21"),
- -> (1008, "Mitali Gupta", "F", 78, 12, "A", "Science", "1997/11/26"),
- -> (1009, "Nikunj Agarwal", "M", 58, 12, "A", "Science", "1997/07/12"),
- -> (1010, "Parkhi", "F", 59, 12, "A", "Commerce", "1997/12/20");

#### **Output:**

Query OK, 5 rows affected, 5 warnings (0.01 sec) Records: 5 Duplicates: 0 Warnings: 5

#### 5) Query:

mysql> update tbl\_student set stream = "Science" where stdId = 1007; Query OK, 1 row affected (0.01 sec)

#### **Output:**

Rows matched: 1 Changed: 1 Warnings: 0

#### 6) Query:

mysql> insert into tbl\_student values (1011, "Prakhar Tiwari", "M", 43, 12, "A", "Science", "1997/04/22"),

- -> (1012, "Raghul Gangwar", "M", 58, 12, "A", "Commerce", "1997/12/21"),
- -> (1013, "Sahil Saraswat", "M", 57, 12, "A", "Commerce", "1997/08/13"),
- -> (1014, "Swati Mishra", "F", 98, 11, "A", "Science", "1996/08/13"),
- -> (1015, "Harsh Agarwal", "M", 58, 11, "B", "Science", "2003/08/28"),
- -> (1016, "Harshit Kumar", "M", 98, 11, "B", "Science", "2003/05/22");

#### **Output:**

Query OK, 6 rows affected, 6 warnings (0.01 sec) Records: 6 Duplicates: 0 Warnings: 6

### 7) Query:

mysql> insert into tbl\_student values (1017, "Jahanvi Kapoor", "M", 65, 11, "B", "Science", "1997/01/10"),

- -> (1018, "Stuti Mishra", "M", 66, 11, "C", "Commerce", "1996/01/10"),
- -> (1019, "Suryash Kumar Agarwal", "M", 85, 11, "C", "Commerce", "2007/08/22"),
- -> (1020, "Tani Rastogi", "F", 75, 12, "C", "Commerce", "1998/01/15"),
- -> (1021, "Tanishk Gupta", "M", 55, 12, "C", "Science", "1998/04/11"),
- -> (1022, "Tanmay Agarwal", "M", 57, 11, "C", "Commerce", "1998/06/28"),
- -> (1023, "Yash Saxena", "M", 79, 11, "C", "Science", "1998/03/13"),
- -> (1024, "Yesh Dubey", "M", 85, 12, "C", "Commerce", "1998/04/03");

#### **Output:**

Query OK, 8 rows affected, 8 warnings (0.01 sec)

Records: 8 Duplicates: 0 Warnings: 8

# 1) Query:

mysql> select \* from tbl\_student;

# **Output:**

+	-+	+	++		+	·+
stdId   stdName	sex	percentage	stdClass	sec	stream	DOB
+	-+	+	++			+
1001   Akshara Agarwal	F	70.00	11	A	Science	1996-11-10
1002   Anjani Sharma	F	75.00	11	A	Commerce	1996-09-18
1003   Anshul Saxena	M	78.00	11	A	Commerce	1996-11-19
1004   Aishwarya Singh	F	79.00	11	A	Commerce	1996-11-01
1005   Akriti Saxena	F	76.00	11	A	Commerce	1996-09-20
1006   Kushi Agarwal	F	77.00	11	A	Commerce	2003-09-14
1007   Maahi Agarwal	F	74.00	11	A	Science	1997-04-21
1008   Mitali Gupta	F	78.00	12	A	Science	1997-11-26
1009   Nikunj Agarwal	M	58.00	12	A	Science	1997-07-12
1010   Parkhi	F	59.00	12	A	Commerce	1997-12-20
1011   Prakhar Tiwari	M	43.00	12	A	Science	1997-04-22
1012   Raghul Gangwar	M	58.00	12	A	Commerce	1997-12-21
1013   Sahil Saraswat	M	57.00	12	A	Commerce	1997-08-13
1014   Swati Mishra	F	98.00	11	A	Science	1996-08-13
1015   Harsh Agarwal	M	58.00	11	В	Science	2003-08-28
1016   Harshit Kumar	M	98.00	11	В	Science	2003-05-22
1017   Jahanvi Kapoor	M	65.00	11	В	Science	1997-01-10
1018   Stuti Mishra	M	66.00	11	C [	Commerce	1996-01-10
1019   Suryash Kumar Agarwal	M	85.00	11	C I	Commerce	2007-08-22
1020   Tani Rastogi	F	75.00	12	C I	Commerce	1998-01-15
1021   Tanishk Gupta	M	55.00	12	C I	Science	1998-04-11
1022   Tanmay Agarwal	M	57.00	11	C I	Commerce	1998-06-28
1023   Yash Saxena	M	79.00	11	C I	Science	1998-03-13
1024   Yesh Dubey	M	85.00	12	C I	Commerce	1998-04-03
+	-+	+	++			+

24 rows in set (0.00 sec)

# 2) Query:

mysql> select stdName, dob from tbl\_student;

+	++
stdName	dob
+	++
Akshara Agarwal	1996-11-10
Anjani Sharma	1996-09-18
Anshul Saxena	1996-11-19
Aishwarya Singh	1996-11-01
Akriti Saxena	1996-09-20
Kushi Agarwal	2003-09-14
l Maahi Agarwal	I 1997-04-21 I

1	Mitali Gupta	1	1997-11-26	1
1	Nikunj Agarwal	1	1997-07-12	1
1	Parkhi	1	1997-12-20	1
1	Prakhar Tiwari	1	1997-04-22	1
1	Raghul Gangwar	1	1997-12-21	1
1	Sahil Saraswat	1	1997-08-13	1
1	Swati Mishra	1	1996-08-13	1
1	Harsh Agarwal	1	2003-08-28	1
1	Harshit Kumar	1	2003-05-22	1
1	Jahanvi Kapoor	1	1997-01-10	1
1	Stuti Mishra	1	1996-01-10	1
1	Suryash Kumar Agarwal	1	2007-08-22	1
1	Tani Rastogi	1	1998-01-15	1
1	Tanishk Gupta	1	1998-04-11	1
1	Tanmay Agarwal	1	1998-06-28	1
1	Yash Saxena	1	1998-03-13	1
1	Yesh Dubey	1	1998-04-03	1
+-		-+-		+

24 rows in set (0.00 sec)

### 3) Query:

mysql> select \* from tbl\_student where percentage >= 80;

# **Output:**

stdId	stdName	sex	İ	percentage	stdClass	l	sec	l	stream	İ	DOB	İ
1016   1019	Swati Mishra   Harshit Kumar   Suryash Kumar Agarwal   Yesh Dubey	F   M   M	.	98.00   98.00   85.00   85.00	11	   	B C	i I	Science Commerce	 	1996-08-13 2003-05-22 2007-08-22 1998-04-03	i I

<sup>4</sup> rows in set (0.01 sec)

### 4) Query:

mysql> select stdName, stream, percentage from tbl\_student where percentage >= 80;

+		+-		+-	+
1	stdName	1	stream	Ī	percentage
+		+-		+-	+
1	Swati Mishra	ı	Science	Ī	98.00
1	Harshit Kumar	1	Science	ı	98.00
1	Suryash Kumar Agarwal	1	Commerce	1	85.00
1	Yesh Dubey	Ι	Commerce	ı	85.00

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

### 5) Query:

mysql> select \* from tbl\_student where stream = "Science" and percentage > 75;

ı	stdId	stdName	I	sex	percentage	Ī	stdClass	l	sec	l	stream	I	DOB
ı	1008	Mitali Gupta   Swati Mishra	Ī	F	78.00 98.00	Ī	12 11	l	A	l	Science	I	1997-11-26   1996-08-13
Ī	1016	Harshit Kumar   Yash Saxena	Ī	м	98.00 79.00	İ	11 11	İ	В	İ	Science	İ	2003-05-22   1998-03-13
		1asii Saxeiia 	•	•		•		•		•		•	•

<sup>4</sup> rows in set (0.00 sec)

### 1) Query:

mysql> describe tbl\_student;

### **Output:**

+		+		+		+		+		+	+
1	Field	I	Туре	1	Null	ı	Key	١	Default	Extra	١
+		+		+-		+		+-		+	+
١	stdId	ı	int	ı	NO	١	PRI	١	NULL	I	ı
1	stdName	I	varchar(30)	1	NO	ı		١	NULL	l	١
1	sex	1	varchar(30)	1	YES	١		١	NULL	l	١
1	percentage	1	decimal(5,2)	1	YES	١		١	NULL	l	١
1	stdClass	1	int	1	YES	١		١	NULL	l	١
1	sec	1	varchar(1)	1	YES	١		١	NULL	l	١
1	stream	I	varchar(10)	ı	YES	I		١	NULL	l	I
1	DOB	I	date	I	YES	I		١	NULL	l	I
+		+		+		+		+.		+	+

8 rows in set (0.00 sec)

## 2) Query:

mysql> alter table tbl\_student add teacherId varchar(20);

### **Output:**

Query OK, 0 rows affected (0.01 sec) Records: 0 Duplicates: 0 Warnings: 0

## 3) Query:

mysql> desc tbl\_Student;

_		۰.				۰.		<b>.</b>			_
ı	Field	l	Туре	ı	Null	l	Key	l	Default	Extra	l
•	stdId	•	_	·	NO	1		1	NULL	+ I	T 
١	stdName	Ī	varchar(30)	1	NO	I		١	NULL	I	ı
١	sex	Ī	varchar(30)	1	YES	I		١	NULL	I	١
-	percentage	Ī	decimal(5,2)	1	YES	I		١	NULL	I	١
١	stdClass	ı	int	١	YES	ı		ı	NULL	I	ı

1	sec	-	varchar(1)	-1	YES	1	-	NULL	1	1
1	stream	1	varchar(10)	-1	YES	1	-	NULL	1	
1	DOB	1	date	-1	YES	1	-	NULL	1	
1	teacherId	1	varchar(20)	-1	YES	1	-	NULL	1	

<sup>9</sup> rows in set (0.00 sec)

### 4) Query:

mysql> select \* from tbl\_student;

# **Output:**

+- 	+ stdId	stdName	s	ex	percentage	•	•		+- 	stream	•	DOB	+- 	teacherId
+-	1001	Akshara Agarwal	 F	·	70.00	+   11	+- 	 А	+-	Science	+	 1996-11-10	+- 	NULL
1	1002	Anjani Sharma	F	, 1	75.00	11	ı	A	ı	Commerce	١	1996-09-18	١	NULL
1	1003	Anshul Saxena	M	1 1	78.00	11	ı	A	ı	Commerce	١	1996-11-19	١	NULL
1	1004	Aishwarya Singh	F	, 1	79.00	11	ı	A	ı	Commerce	١	1996-11-01	ı	NULL
1	1005	Akriti Saxena	F		76.00	11	ı	A	ı	Commerce	١	1996-09-20	١	NULL
1	1006	Kushi Agarwal	F	, I	77.00	11	I	A	ı	Commerce	١	2003-09-14	I	NULL
1	1007	Maahi Agarwal	F	, 1	74.00	11	ı	A	ı	Science	١	1997-04-21	ı	NULL
1	1008	Mitali Gupta	F		78.00	12	ı	A	ı	Science	١	1997-11-26	١	NULL
1	1009	Nikunj Agarwal	M	1 1	58.00	12	I	A	ı	Science	١	1997-07-12	I	NULL
1	1010	Parkhi	F	, 1	59.00	12	I	A	ı	Commerce	١	1997-12-20	ı	NULL
1	1011	Prakhar Tiwari	M	1 1	43.00	12	ı	A	ı	Science	١	1997-04-22	١	NULL
1	1012	Raghul Gangwar	M	1 1	58.00	12	ı	A	ı	Commerce	١	1997-12-21	١	NULL
1	1013	Sahil Saraswat	M	1 1	57.00	12	I	A	ı	Commerce	١	1997-08-13	ı	NULL
1	1014	Swati Mishra	F		98.00	11	ı	A	ı	Science	١	1996-08-13	١	NULL
1	1015	Harsh Agarwal	M	1 1	58.00	11	ı	В	ı	Science	١	2003-08-28	١	NULL
1	1016	Harshit Kumar	M	1 1	98.00	11	I	В	ı	Science	١	2003-05-22	ı	NULL
1	1017	Jahanvi Kapoor	M	1 1	65.00	11	I	В	ı	Science	١	1997-01-10	ı	NULL
1	1018	Stuti Mishra	M	1 1	66.00	11	I	С	ı	Commerce	١	1996-01-10	ı	NULL
1	1019	Suryash Kumar Agarwal	M	1	85.00	11	ı	С	ı	Commerce	ı	2007-08-22	ı	NULL
1	1020	Tani Rastogi	F	, 1	75.00	12	ı	С	ı	Commerce	١	1998-01-15	١	NULL
1	1021	Tanishk Gupta	M	1 1	55.00	12	I	С	ı	Science	١	1998-04-11	ı	NULL
Ι	1022	Tanmay Agarwal	M	1 1	57.00	11	ı	С	١	Commerce	ı	1998-06-28	ı	NULL
Ι	1023	Yash Saxena	M	1 1	79.00	11	ı	С	١	Science	ı	1998-03-13	ı	NULL
1	1024	Yesh Dubey	M	1 1	85.00	12	ı	С	١	Commerce	Ī	1998-04-03	ı	NULL
+-	+		+	+		+	+-		+-		+		+-	+

24 rows in set (0.00 sec)

## 5) Query:

mysql> alter table tbl\_student modify teacherId int;

### **Output:**

Query OK, 24 rows affected (0.04 sec)

Records: 24 Duplicates: 0 Warnings: 0

### mysql> desc tbl\_Student;

stdId	+	Field	+·    -	Туре	-+    -	Null	+·   	Key	+ ·    -	Default	•	+   -
	+	stdName sex percentage stdClass sec stream DOB		<pre>int varchar(30) varchar(30) decimal(5,2) int varchar(1) varchar(10) date</pre>		NO YES YES YES YES YES YES YES		PRI		NULL NULL NULL NULL NULL NULL NULL	               	T

9 rows in set (0.00 sec)

# mysql> select \* from tbl\_student;

+	stdId	•	•	+   percentage		•	-+ 		+   DOB	++   teacherId
+-	1001		+	+ I 70.00	•	•	-+	 Science	+   1996-11-10	++   NULL
- !	1001	Akshara Agarwal	F		•	IA IA	!	Commerce		
!	1002	Anjani Sharma	•	75.00	•	•	!		1996-09-18	
!		Anshul Saxena	M	78.00	•	A	!	Commerce	•	
!	1004	Aishwarya Singh	F	79.00	•	A	!	Commerce		
ı	1005	Akriti Saxena	F	76.00	•	A	ı	Commerce		
ı	1006	Kushi Agarwal	F	77.00	•	A	ı	Commerce		
ı	1007	Maahi Agarwal	F	74.00	11	A	١	Science	1997-04-21	NULL
- 1	1008	Mitali Gupta	F	78.00	12	A	١	Science	1997-11-26	NULL
- 1	1009	Nikunj Agarwal	M	58.00	12	A	- 1	Science	1997-07-12	NULL
- 1	1010	Parkhi	F	59.00	12	A	1	Commerce	1997-12-20	NULL
1	1011	Prakhar Tiwari	M	43.00	12	A	١	Science	1997-04-22	NULL
1	1012	Raghul Gangwar	M	58.00	12	A	١	Commerce	1997-12-21	NULL
1	1013	Sahil Saraswat	M	57.00	12	A	١	Commerce	1997-08-13	NULL
1	1014	Swati Mishra	F	98.00	11	A	١	Science	1996-08-13	NULL
1	1015	Harsh Agarwal	M	58.00	11	B	١	Science	2003-08-28	NULL
1	1016	Harshit Kumar	M	98.00	11	B	١	Science	2003-05-22	NULL
1	1017	Jahanvi Kapoor	M	65.00	11	B	١	Science	1997-01-10	NULL
1	1018	Stuti Mishra	M	66.00	11	l C	١	Commerce	1996-01-10	NULL
1	1019	Suryash Kumar Agarwal	M	85.00	11	l C	١	Commerce	2007-08-22	NULL
1	1020	Tani Rastogi	F	75.00	12	l C	١	Commerce	1998-01-15	NULL
1	1021	Tanishk Gupta	M	55.00	12	l C	١	Science	1998-04-11	NULL
ı	1022	Tanmay Agarwal	M	57.00	11	l C	١	Commerce	1998-06-28	NULL
ı	1023	Yash Saxena	M	79.00	11	l C	١	Science	1998-03-13	NULL
1	1024	Yesh Dubey	M	85.00	12	l C	1	Commerce	1998-04-03	NULL
+-		<b>+</b>	+	+	+	+	-+		+	++

### 1) Query:

mysql> alter table tbl\_student drop teacherId;

### **Output:**

Query OK, 0 rows affected (0.02 sec) Records: 0 Duplicates: 0 Warnings: 0

## 2) Query:

mysql> select stdName as "Student Name", percentage - 5 as "Percentage(Percentage-5)" from tbl\_student;

### **Output:**

+	++
Student Name	Percentage(Percentage-5)
Akshara Agarwal	65.00
Anjani Sharma	70.00
Anshul Saxena	73.00
Aishwarya Singh	74.00
Akriti Saxena	71.00
Kushi Agarwal	72.00
Maahi Agarwal	69.00
Mitali Gupta	73.00
Nikunj Agarwal	53.00
Parkhi	54.00
Prakhar Tiwari	38.00
Raghul Gangwar	53.00
Sahil Saraswat	52.00
Swati Mishra	93.00
Harsh Agarwal	53.00
Harshit Kumar	93.00
Jahanvi Kapoor	60.00
Stuti Mishra	61.00
Suryash Kumar Agarwal	80.00
Tani Rastogi	70.00
Tanishk Gupta	50.00
Tanmay Agarwal	52.00
Yash Saxena	74.00
Yesh Dubey	80.00
+	tt

### 3) Query:

mysql> select stdName as "Student Name", dob as "Date of birth" from tbl\_student;

## **Output:**

Student Name	Date of birth
Akshara Agarwal	1996-11-10
Anjani Sharma	1996-09-18
Anshul Saxena	1996-11-19
Aishwarya Singh	1996-11-01
Akriti Saxena	1996-09-20
Kushi Agarwal	2003-09-14
Maahi Agarwal	1997-04-21
Mitali Gupta	1997-11-26
Nikunj Agarwal	1997-07-12
Parkhi	1997-12-20
Prakhar Tiwari	1997-04-22
Raghul Gangwar	1997-12-21
Sahil Saraswat	1997-08-13
Swati Mishra	1996-08-13
Harsh Agarwal	2003-08-28
Harshit Kumar	2003-05-22
Jahanvi Kapoor	1997-01-10
Stuti Mishra	1996-01-10
Suryash Kumar Agarwal	2007-08-22
Tani Rastogi	1998-01-15
Tanishk Gupta	1998-04-11
Tanmay Agarwal	1998-06-28
Yash Saxena	1998-03-13
Yesh Dubey	1998-04-03
+	-++

24 rows in set (0.00 sec)

### 4) Query:

mysql> select stdName from tbl\_student where stream <> "Science";

+			+
1	stdName	<b>9</b>	1
+			+
١	Anjani	Sharma	1
1	Anshul	Saxena	1

```
| Aishwarya Singh | Akriti Saxena | Kushi Agarwal | Parkhi | Raghul Gangwar | Sahil Saraswat | Stuti Mishra | Suryash Kumar Agarwal | Tani Rastogi | Tanmay Agarwal | Yesh Dubey |
```

# 5) Query:

13 rows in set (0.00 sec)

mysql> select stdName, percentage from tbl\_student where percentage >= 60 and percentage <= 80;

### **Output:**

+	+		+
stdName	ı	percentage	1
+	+		+
Akshara Agarwal	1	70.00	ı
Anjani Sharma	1	75.00	1
Anshul Saxena	1	78.00	1
Aishwarya Singh	١	79.00	1
Akriti Saxena	1	76.00	1
Kushi Agarwal	1	77.00	1
Maahi Agarwal	1	74.00	1
Mitali Gupta	1	78.00	1
Jahanvi Kapoor	1	65.00	1
Stuti Mishra	1	66.00	1
Tani Rastogi	1	75.00	1
Yash Saxena	I	79.00	1
+	+		+

#### 1) Query:

mysql> update tbl\_student set stdName = "Swati Verma", percentage = 86 where stdId = 1014;

#### **Output:**

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

#### 2) Query:

mysql> select \* from tbl\_student where stdName like 'G\_';

#### **Output:**

Empty set (0.01 sec)

mysql> select \* from tbl\_student where stdName like 'G'; Empty set (0.00 sec)

mysql> select \* from tbl\_student where stdName like 'G%'; Empty set (0.00 sec)

mysql> select \* from tbl\_student where stdName like '%G%';

			+		·		<b>4</b>	
•	stdId	stdName	sex	percentage	stdClass		stream	DOB
i		Akshara Agarwal	F	70.00	'   11	'   A	Science	   1996-11-10
1	1004	Aishwarya Singh	F	79.00	11	A	Commerce	1996-11-01
1	1006	Kushi Agarwal	F	77.00	11	A	Commerce	2003-09-14
1	1007	Maahi Agarwal	F	74.00	11	A	Science	1997-04-21
1	1008	Mitali Gupta	F	78.00	12	A	Science	1997-11-26
1	1009	Nikunj Agarwal	M	58.00	12	A	Science	1997-07-12
-	1012	Raghul Gangwar	M	58.00	12	A	Commerce	1997-12-21
-	1015	Harsh Agarwal	M	58.00	11	B	Science	2003-08-28
1	1019	Suryash Kumar Agarwal	M	85.00	11	C	Commerce	2007-08-22
1	1020	Tani Rastogi	F	75.00	12	C	Commerce	1998-01-15
1	1021	Tanishk Gupta	M	55.00	12	C	Science	1998-04-11
1	1022	Tanmay Agarwal	M	57.00	11	C	Commerce	1998-06-28
ъ.								

12 rows in set (0.00 sec)

### 3) Query:

mysql> select distinct stream from tbl\_student;

# Output:

+-		+
١	stream	1
+-		+
1	Science	1
1	Commerce	1
<b>4</b> .		

# 4) Query:

mysql> select stdName, sex, stream from tbl\_student where percentage between 70 and 80;

# Output:

+	-+-		+-	+
stdName	ı	sex	١	stream
+	+-		+-	+
Akshara Agarwal	1	F	١	Science
Anjani Sharma	1	F	١	Commerce
Anshul Saxena	1	M	١	Commerce
Aishwarya Singh	1	F	١	Commerce
Akriti Saxena	1	F	١	Commerce
Kushi Agarwal	1	F	١	Commerce
Maahi Agarwal	1	F	١	Science
Mitali Gupta	1	F	١	Science
Tani Rastogi	1	F	١	Commerce
Yash Saxena	1	M	١	Science
+	+-		+-	+