

## LAB Activity 1:

```
mysql> create table tbl_students (StdId int primary key,StdName  
varchar(30) not null,sex varchar(1),percentage decimal(5,2),Sclass  
int,sec varchar(1),stream varchar(10),dob date);  
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> insert into tbl_students values (1002,"Anjani  
sharma","F",75,11,"A","Commerce",'1996/09/18');  
Query OK, 1 row affected, 1 warning (0.00 sec)
```

```
mysql> insert into tbl_students values (1003,"Anshul  
Saxena","M",78,11,"A","Commerce",'1996/11/19');  
Query OK, 1 row affected, 1 warning (0.01 sec)
```

```
mysql> insert into tbl_students values (1004,"AISHWARYA  
SINGH","F",79,11,"A","Commerce",'1996/11/1');  
Query OK, 1 row affected, 1 warning (0.00 sec)
```

```
mysql> insert into tbl_students values (1005,"AKRITI  
SAXENA","F",76,11,"A","Commerce",'1996/09/20');  
Query OK, 1 row affected, 1 warning (0.00 sec)
```

```
mysql> insert into tbl_students values (1006,"KHUSHI  
AGARWAL","F",77,11,"A","Commerce",'2003/09/14');  
Query OK, 1 row affected, 1 warning (0.02 sec)
```

```
mysql> insert into tbl_students values (1007,"MAAHI  
AGARWAL","F",74,11,"A","Science",'1997/04/21');  
Query OK, 1 row affected, 1 warning (0.02 sec)
```

```
mysql> insert into tbl_students values (1008,"MITALI  
GUPTA","F",78,12,"A","Science",'1997/11/26');  
Query OK, 1 row affected, 1 warning (0.00 sec)
```

```
mysql> insert into tbl_students (StdId,StdName,Sex) values  
(1009,"NIKUNJ AGARWAL","M");  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into tbl_students (StdId,StdName,Sex) values  
(1010,"PARKHI","F");  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> update tbl_students set Percentage=58,Sclass=11,Sec="A" where  
StdId=1009;
```

Query OK, 1 row affected (0.00 sec)  
Rows matched: 1 Changed: 1 Warnings: 0

**mysql> update tbl\_students set Percentage=59,Sclass=12,Sec="A" where StdId=1010;**

Query OK, 1 row affected (0.00 sec)  
Rows matched: 1 Changed: 1 Warnings: 0

**mysql> select \* from tbl\_students;**

```
+-----+-----+-----+-----+-----+-----+
----+-----+
| StdId | StdName          | sex | percentage | Sclass | sec |
stream | dob              |
+-----+-----+-----+-----+-----+-----+
----+-----+
| 1001 | Akshra 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 | KHUSHI 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      | 11     | A   | NULL
| NULL   |
| 1010 | PARKHI           | F   | 59.00      | 12     | A   | NULL
| NULL   |
+-----+-----+-----+-----+-----+-----+
----+-----+
10 rows in set (0.00 sec)
```

## LAB Activity 2 :

**1. mysql> select \* from tbl\_students;**

```
+-----+-----+-----+-----+-----+-----+
----+-----+
```

StdId	StdName	sex	percentage	Sclass	sec
1001	Akshra agarwal	F	70.00	11	A
1002	Anjani sharma	F	75.00	11	A
1003	Anshul Saxena	M	78.00	11	A
1004	AISHWARYA SINGH	F	79.00	11	A
1005	AKRITI SAXENA	F	76.00	11	A
1006	KHUSHI AGARWAL	F	77.00	11	A
1007	MAAHI AGARWAL	F	74.00	11	A
1008	MITALI GUPTA	F	78.00	12	A
1009	NIKUNJ AGARWAL	M	58.00	11	A
1010	PARKHI	F	59.00	12	A

10 rows in set (0.00 sec)

**2. mysql> select StdName,dob from tbl\_students;**

StdName	dob
Akshra agarwal	1996-11-10
Anjani sharma	1996-09-18
Anshul Saxena	1996-11-19
AISHWARYA SINGH	1996-11-01
AKRITI SAXENA	1996-09-20
KHUSHI AGARWAL	2003-09-14
MAAHI AGARWAL	1997-04-21
MITALI GUPTA	1997-11-26
NIKUNJ AGARWAL	1997-07-12
PARKHI	1997-12-20

10 rows in set (0.00 sec)

**3. mysql> select \* from tbl\_students where percentage>=70;**

```
+-----+-----+-----+-----+-----+-----+-----+
----+-----+
| StdId | StdName          | sex | percentage | Sclass | sec |
stream | dob              |
+-----+-----+-----+-----+-----+-----+-----+
----+-----+
| 1001 | Akshra 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 | KHUSHI 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 |
+-----+-----+-----+-----+-----+-----+-----+
----+-----+
8 rows in set (0.00 sec)
```

**4. mysql> select StdName,stream,percentage from tbl\_students where percentage > 70;**

```
+-----+-----+-----+
| StdName          | stream | percentage |
+-----+-----+-----+
| Anjani sharma    | Commerce | 75.00 |
| Anshul Saxena    | Commerce | 78.00 |
| AISHWARYA SINGH  | Commerce | 79.00 |
| AKRITI SAXENA    | Commerce | 76.00 |
| KHUSHI AGARWAL   | Commerce | 77.00 |
| MAAHI AGARWAL    | Science  | 74.00 |
| MITALI GUPTA     | Science  | 78.00 |
+-----+-----+-----+
7 rows in set (0.00 sec)
```

**5. mysql> select \* from tbl\_students where stream='Science' and percentage > 75;**

```
+-----+-----+-----+-----+-----+-----+-----+
+-----+
```

```

| StdId | StdName      | sex | percentage | Sclass | sec | stream
| dob    |
+-----+-----+-----+-----+-----+-----+-----+
+-----+
| 1008 | MITALI GUPTA | F   | 78.00      | 12    | A   | Science
| 1997-11-26 |
+-----+-----+-----+-----+-----+-----+-----+
+-----+
1 row in set (0.00 sec)

```

### LAB Activity 3 :

1. **mysql> desc tbl\_students;**

```

+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| StdId      | int           | NO   | PRI | NULL     |       |
| StdName    | varchar(30)   | NO   |     | NULL     |       |
| sex        | varchar(1)    | YES  |     | NULL     |       |
| percentage | decimal(5,2)  | YES  |     | NULL     |       |
| Sclass     | int           | YES  |     | NULL     |       |
| sec        | varchar(1)    | YES  |     | NULL     |       |
| stream     | varchar(10)   | YES  |     | NULL     |       |
| dob        | date          | YES  |     | NULL     |       |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)

```

2. **mysql> alter table tbl\_students add TeacherId varchar(20);**

Query OK, 0 rows affected (0.01 sec)

Records: 0 Duplicates: 0 Warnings: 0

3. **mysql> desc tbl\_students;**

```

+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| StdId      | int           | NO   | PRI | NULL     |       |
| StdName    | varchar(30)   | NO   |     | NULL     |       |
| sex        | varchar(1)    | YES  |     | NULL     |       |
| percentage | decimal(5,2)  | YES  |     | NULL     |       |
| Sclass     | int           | YES  |     | NULL     |       |
| sec        | varchar(1)    | YES  |     | NULL     |       |
| stream     | varchar(10)   | YES  |     | NULL     |       |
| dob        | date          | YES  |     | NULL     |       |
| TeacherId  | varchar(20)   | YES  |     | NULL     |       |
+-----+-----+-----+-----+-----+-----+

```

9 rows in set (0.00 sec)

**4. mysql> select \* from tbl\_students;**

StdId	StdName	sex	percentage	Sclass	sec	stream	dob	TeacherId
1001	Akshra agarwal	F	70.00	11	A	Science	1996-11-10	NULL
1002	Anjani sharma	F	75.00	11	A	Commerce	1996-09-18	NULL
1003	Anshul Saxena	M	78.00	11	A	Commerce	1996-11-19	NULL
1004	AISHWARYA SINGH	F	79.00	11	A	Commerce	1996-11-01	NULL
1005	AKRITI SAXENA	F	76.00	11	A	Commerce	1996-09-20	NULL
1006	KHUSHI AGARWAL	F	77.00	11	A	Commerce	2003-09-14	NULL
1007	MAAHI AGARWAL	F	74.00	11	A	Science	1997-04-21	NULL
1008	MITALI GUPTA	F	78.00	12	A	Science	1997-11-26	NULL
1009	NIKUNJ AGARWAL	M	58.00	11	A	Science	1997-07-12	NULL
1010	PARKHI	F	59.00	12	A	Commerce	1997-12-20	NULL

10 rows in set (0.00 sec)

**5. mysql> alter table tbl\_students modify TeacherId int;**

Query OK, 10 rows affected (0.03 sec)

Records: 10 Duplicates: 0 Warnings: 0

**6. mysql> desc tbl\_students;**

Field	Type	Null	Key	Default	Extra
StdId	int	NO	PRI	NULL	
StdName	varchar(30)	NO		NULL	
sex	varchar(1)	YES		NULL	
percentage	decimal(5,2)	YES		NULL	
Sclass	int	YES		NULL	

sec	varchar(1)	YES		NULL		
stream	varchar(10)	YES		NULL		
dob	date	YES		NULL		
TeacherId	int	YES		NULL		

9 rows in set (0.00 sec)

7. mysql> select \* from tbl\_students;

StdId	StdName	sex	percentage	Sclass	sec	stream	dob	TeacherId
1001	Akshra agarwal	F	70.00	11	A	Science	1996-11-10	NULL
1002	Anjani sharma	F	75.00	11	A	Commerce	1996-09-18	NULL
1003	Anshul Saxena	M	78.00	11	A	Commerce	1996-11-19	NULL
1004	AISHWARYA SINGH	F	79.00	11	A	Commerce	1996-11-01	NULL
1005	AKRITI SAXENA	F	76.00	11	A	Commerce	1996-09-20	NULL
1006	KHUSHI AGARWAL	F	77.00	11	A	Commerce	2003-09-14	NULL
1007	MAAHI AGARWAL	F	74.00	11	A	Science	1997-04-21	NULL
1008	MITALI GUPTA	F	78.00	12	A	Science	1997-11-26	NULL
1009	NIKUNJ AGARWAL	M	58.00	11	A	Science	1997-07-12	NULL
1010	PARKHI	F	59.00	12	A	Commerce	1997-12-20	NULL

10 rows in set (0.00 sec)

#### LAB Activity 4:

1. mysql> alter table tbl\_students drop TeacherId;

Query OK, 0 rows affected (0.01 sec)

Records: 0 Duplicates: 0 Warnings: 0

2. mysql> select StdName,percentage-5 from tbl\_students;

```

+-----+-----+
| StdName      | percentage-5 |
+-----+-----+
| Akshra agarwal |          65.00 |
| Anjani sharma  |          70.00 |
| Anshul Saxena  |          73.00 |
| AISHWARYA SINGH |          74.00 |
| AKRITI SAXENA  |          71.00 |
| KHUSHI AGARWAL |          72.00 |
| MAAHI AGARWAL  |          69.00 |
| MITALI GUPTA   |          73.00 |
| NIKUNJ AGARWAL |          53.00 |
| PARKHI         |          54.00 |
+-----+-----+
10 rows in set (0.00 sec)

```

**3. mysql> select StdName as "Student Name",dob as "Date of Birth"  
from tbl\_students;**

```

+-----+-----+
| Student Name  | Date of Birth |
+-----+-----+
| Akshra agarwal | 1996-11-10   |
| Anjani sharma  | 1996-09-18   |
| Anshul Saxena  | 1996-11-19   |
| AISHWARYA SINGH | 1996-11-01   |
| AKRITI SAXENA  | 1996-09-20   |
| KHUSHI AGARWAL | 2003-09-14   |
| MAAHI AGARWAL  | 1997-04-21   |
| MITALI GUPTA   | 1997-11-26   |
| NIKUNJ AGARWAL | 1997-07-12   |
| PARKHI         | 1997-12-20   |
+-----+-----+
10 rows in set (0.00 sec)

```

**4. mysql> select StdName from tbl\_students where stream <>  
'Science';**

```

+-----+
| StdName |
+-----+
| Anjani sharma |
| Anshul Saxena |
| AISHWARYA SINGH |
| AKRITI SAXENA |
| KHUSHI AGARWAL |
| PARKHI |

```



```
+-----+
6 rows in set (0.00 sec)
```

```
5. mysql> select StdName ,percentage from tbl_students where
percentage >=60 and percentage <=70;
```

```
+-----+-----+
| StdName          | percentage |
+-----+-----+
| Akshra agarwal   | 70.00     |
+-----+-----+
1 row in set (0.00 sec)
```

### LAB Activity 5 :

```
1. mysql> update tbl_students set StdName="Swati
Verma",percentage=86 where StdId=1008;
```

```
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
2. mysql> delete from tbl_students where StdId=1010;
```

```
Query OK, 1 row affected (0.02 sec)
```

```
3. mysql> select * from tbl_students where StdName like '__A%';
```

```
+-----+-----+-----+-----+-----+-----+-----+
+-----+
| StdId | StdName          | sex | percentage | Sclass | sec | stream |
| dob   |                  |     |            |        |    |        |
+-----+-----+-----+-----+-----+-----+-----+
+-----+
| 1007 | MAAHI AGARWAL   | F   | 74.00     | 11     | A   | Science |
| 1997-04-21 |
| 1008 | Swati Verma     | F   | 86.00     | 12     | A   | Science |
| 1997-11-26 |
+-----+-----+-----+-----+-----+-----+-----+
+-----+
2 rows in set (0.00 sec)
```

```
4. mysql> select Distinct stream from tbl_students;
```

```
+-----+
| stream |
+-----+
| Science |
| Commerce |
+-----+
2 rows in set (0.00 sec)
```

```
5. mysql> select StdName,Sex,stream from tbl_students where
percentage between 60 and 70;
```

```
+-----+-----+-----+
| StdName      | Sex  | stream |
+-----+-----+-----+
| Akshra agarwal | F    | Science |
+-----+-----+-----+
1 row in set (0.00 sec)
```