

## LAB ACTIVITY

### ACTIVITY -1:

Create a table STUDENT with under mentioned structure by using SQL Statement:

StdID	Number	Primary Key
StdName	Character (30)	NOT NULL
Sex	Character(6)	Male or Female
Percentage	Number	
SClass	Number	
Sec	Character	
Stream	Character(10)	Science or Commerce
DOB	Date	Date of Birth

```
mysql> create table tbl_student (StdId int (4) primary key, StdName  
varchar(30) not null, sex varchar(7), percentage int , sclass int, Sec  
varchar(1), Stream varchar(10), DOB DATE);
```

Query OK, 0 rows affected, 1 warning (0.02 sec)

```
mysql> DESC tbl_student;
```

Field	Type	Null	Key	Default	Extra
StdId	int	NO	PRI	NULL	
StdName	varchar(30)	NO		NULL	
sex	varchar(7)	YES		NULL	
percentage	int	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)

### INSERTING RECORD INTO THE TABLE:

```
mysql> INSERT INTO tbl_student VALUES (1001, 'AKSHRA
AGARWAL','FEMALE',70,11,'A','science','1996-11-10');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO tbl_student VALUES (1002, 'ANJANI
SHARMA','FEMALE',75,11,'A','Commerce','1996-09-18');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO tbl_student VALUES (1003, 'ANSHUL
SAXENA','MALE',78,11,'A','Commerce','1996-11-19');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO tbl_student VALUES (1004, 'AISHWARIYA
SINGH','FEMALE',79,11,'A','Commerce','1996-11-1');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO tbl_student VALUES (1005, 'AKRITI
SAXENA','FEMALE',76,11,'A','Commerce','1996-09-20');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO tbl_student VALUES (1006, 'KHUSHI
AGARWAL','FEMALE',77,11,'A','Commerce','1996-09-14');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO tbl_student VALUES (1007, 'MAAHI
AGARWAL','FEMALE',74,11,'A','Science','1997-04-21');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO tbl_student VALUES (1008, 'MITALI
GUPTA','FEMALE',78,12,'A','Science','1997-11-26');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO tbl_student VALUES (1009, 'NIKUNJ
AGARWAL','MALE',58,12,'A','Science','1997-07-12');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO tbl_student VALUES (1010,
'PARKHI','FEMALE',59,12,'A','Commerce','1997-12-20');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO tbl_student VALUES (1011, 'PRAKHAR  
TIWARI','MALE',43,12,'A','Science','1997-04-22');  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO tbl_student VALUES (1012, 'RAGHAV  
GANDWAR','MALE',58,12,'A','Commerce','1997-08-13');  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO tbl_student VALUES (1013, 'SAHIL  
SARASWAT','MALE',57,12,'A','Commerce','1997-08-13');  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO tbl_student VALUES (1014, 'SWATI  
MISHRA','FEMALE',98,11,'A','Science','1997-08-13');  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO tbl_student VALUES (1015,  
'HARSHAGARWAL','MALE',58,11,'B','Science','2003-08-28');  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO tbl_student VALUES (1016, 'HARSHIT  
KUMAR','MALE',98,11,'B','Science','2003-05-22');  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO tbl_student VALUES (1017, 'JAHANVI  
KAPOOR','MALE',65,11,'B','Science','1997-01-10');  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO tbl_student VALUES (1018, 'STUTI  
MISHRA','MALE',66,11,'C','Commerce','1996-01-10');  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO tbl_student VALUES (1019, 'SURYANSH KUMAR  
AGARWAL','MALE',85,11,'C','Commerce','2007-08-22');  
Query OK, 1 row affected (0.01 sec)
```

```
mysql> INSERT INTO tbl_student VALUES (1020, 'TANI  
RASTOGI','FEMALE',75,12,'C','Commerce','1998-01-15');  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO tbl_student VALUES (1021, 'TANISHK  
GUPTA','MALE',55,12,'C','Science','1998-04-11');
```

Query OK, 1 row affected (0.00 sec)

```
mysql> INSERT INTO tbl_student VALUES (1022, 'TANMAY
AGARWAL', 'MALE', 57, 11, 'C', 'Commerce', '1998-06-28');
```

Query OK, 1 row affected (0.00 sec)

```
mysql> INSERT INTO tbl_student VALUES (1023, 'YASH
SAXENA', 'MALE', 79, 11, 'C', 'Science', '1998-03-13');
```

Query OK, 1 row affected (0.00 sec)

```
mysql> INSERT INTO tbl_student VALUES (1024, 'YESH
DUBEY', 'MALE', 85, 12, 'C', 'Commerce', '1998-04-03');
```

Query OK, 1 row affected (0.00 sec)

```
mysql> select * from tbl_student;
```

StdId	StdName	sex	percentage	sclass	Sec	Stream	DOB
1001	AKSHRA AGARWAL	FEMALE	70	11	A	science	1996-11-10
1002	ANJANI SHARMA	FEMALE	75	11	A	Commerce	1996-09-18
1003	ANSHUL SAXENA	MALE	78	11	A	Commerce	1996-11-19
1004	AISHWARIYA SINGH	FEMALE	79	11	A	Commerce	1996-11-01
1005	AKRITI SAXENA	FEMALE	76	11	A	Commerce	1996-09-20
1006	KHUSHI AGARWAL	FEMALE	77	11	A	Commerce	1996-09-14
1007	MAAHI AGARWAL	FEMALE	74	11	A	Science	1997-04-21
1008	MITALI GUPTA	FEMALE	78	12	A	Science	1997-11-26
1009	NIKUNJ AGARWAL	MALE	58	12	A	Science	1997-07-12
1010	PARKHI	FEMALE	59	12	A	Commerce	1997-12-20
1011	PRAKHAR TIWARI	MALE	43	12	A	Science	1997-04-22
1012	RAGHAV GANDWAR	MALE	58	12	A	Commerce	1997-08-13
1013	SAHIL SARASWAT	MALE	57	12	A	Commerce	1997-08-13
1014	SWATI MISHRA	FEMALE	98	11	A	Science	1997-08-13
1015	HARSHAGARWAL	MALE	58	11	B	Science	2003-08-28
1016	HARSHIT KUMAR	MALE	98	11	B	Science	2003-05-22
1017	JAHANVI KAPOOR	MALE	65	11	B	Science	1997-01-10
1018	STUTI MISHRA	MALE	66	11	C	Commerce	1996-01-10
1019	SURYANSH KUMAR AGARWAL	MALE	85	11	C	Commerce	2007-08-22
1020	TANI RASTOGI	FEMALE	75	12	C	Commerce	1998-01-15
1021	TANISHK GUPTA	MALE	55	12	C	Science	1998-04-11
1022	TANMAY AGARWAL	MALE	57	11	C	Commerce	1998-06-28
1023	YASH SAXENA	MALE	79	11	C	Science	1998-03-13
1024	YESH DUBEY	MALE	85	12	C	Commerce	1998-04-03

24 rows in set (0.00 sec)

## ACTIVITY -2:

1.To display all the records from the STUDENT table.

```
SELECT * FROM tbl_student ;
```

StdId	StdName	sex	percentage	sclass	Sec	Stream	DOB
1001	AKSHRA AGARWAL	FEMALE	70	11	A	science	1996-11-10
1002	ANJANI SHARMA	FEMALE	75	11	A	Commerce	1996-09-18
1003	ANSHUL SAXENA	MALE	78	11	A	Commerce	1996-11-19
1004	AISHWARIYA SINGH	FEMALE	79	11	A	Commerce	1996-11-01
1005	AKRITI SAXENA	FEMALE	76	11	A	Commerce	1996-09-20
1006	KHUSHI AGARWAL	FEMALE	77	11	A	Commerce	1996-09-14
1007	MAAHI AGARWAL	FEMALE	74	11	A	Science	1997-04-21
1008	MITALI GUPTA	FEMALE	78	12	A	Science	1997-11-26
1009	NIKUNJ AGARWAL	MALE	58	12	A	Science	1997-07-12
1010	PARKHI	FEMALE	59	12	A	Commerce	1997-12-20
1011	PRAKHAR TIWARI	MALE	43	12	A	Science	1997-04-22
1012	RAGHAV GANDWAR	MALE	58	12	A	Commerce	1997-08-13
1013	SAHIL SARASWAT	MALE	57	12	A	Commerce	1997-08-13
1014	SWATI MISHRA	FEMALE	98	11	A	Science	1997-08-13
1015	HARSHAGARWAL	MALE	58	11	B	Science	2003-08-28
1016	HARSHIT KUMAR	MALE	98	11	B	Science	2003-05-22
1017	JAHANVI KAPOOR	MALE	65	11	B	Science	1997-01-10
1018	STUTI MISHRA	MALE	66	11	C	Commerce	1996-01-10
1019	SURYANSH KUMAR AGARWAL	MALE	85	11	C	Commerce	2007-08-22
1020	TANI RASTOGI	FEMALE	75	12	C	Commerce	1998-01-15
1021	TANISHK GUPTA	MALE	55	12	C	Science	1998-04-11
1022	TANMAY AGARWAL	MALE	57	11	C	Commerce	1998-06-28
1023	YASH SAXENA	MALE	79	11	C	Science	1998-03-13
1024	YESH DUBEY	MALE	85	12	C	Commerce	1998-04-03

24 rows in set (0.00 sec)

2. To display only name and date of birth from the table STUDENT.

```
SELECT StdName, DOB FROM tbl_student ;
```

```
mysql> SELECT StdName, DOB FROM tbl_student ;
```

StdName	DOB
AKSHRA AGARWAL	1996-11-10
ANJANI SHARMA	1996-09-18
ANSHUL SAXENA	1996-11-19
AISHWARIYA SINGH	1996-11-01
AKRITI SAXENA	1996-09-20
KHUSHI AGARWAL	1996-09-14
MAAHI AGARWAL	1997-04-21
MITALI GUPTA	1997-11-26
NIKUNJ AGARWAL	1997-07-12
PARKHI	1997-12-20
PRAKHAR TIWARI	1997-04-22
RAGHAV GANDWAR	1997-08-13
SAHIL SARASWAT	1997-08-13
SWATI MISHRA	1997-08-13
HARSHAGARWAL	2003-08-28
HARSHIT KUMAR	2003-05-22
JAHANVI KAPOOR	1997-01-10
STUTI MISHRA	1996-01-10
SURYANSH 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)

3. To display all students' records where percentage is greater or equal to 80 FROM student table.

```
SELECT * FROM tbl_student WHERE percentage >= 80;
```

```
mysql> SELECT * FROM tbl_student WHERE percentage >= 80;
```

StdId	StdName	sex	percentage	sclass	Sec	Stream	DOB
1014	SWATI MISHRA	FEMALE	98	11	A	Science	1997-08-13
1016	HARSHIT KUMAR	MALE	98	11	B	Science	2003-05-22
1019	SURYANSH KUMAR AGARWAL	MALE	85	11	C	Commerce	2007-08-22
1024	YESH DUBEY	MALE	85	12	C	Commerce	1998-04-03

4. To display student name, stream and percentage where percentage of student is more than 80

```
SELECT StdName, Stream, Percentage from tbl_student WHERE percentage > 80;
```

```
mysql> SELECT StdName, Stream, Percentage from tbl_student WHERE percentage > 80;
```

StdName	Stream	Percentage
SWATI MISHRA	Science	98
HARSHIT KUMAR	Science	98
SURYANSH KUMAR AGARWAL	Commerce	85
YESH DUBEY	Commerce	85

5. To display all records of science students whose percentage is more than 75 form a student table.

```
SELECT * FROM tbl_student WHERE stream = 'Science' AND percentage > 75;
```

```
mysql> select * from tbl_student where Stream ='Science' and Percentage >75;
```

StdId	StdName	sex	percentage	sclass	Sec	Stream	DOB
1008	MITALI GUPTA	FEMALE	78	12	A	Science	1997-11-26
1014	SWATI MISHRA	FEMALE	98	11	A	Science	1997-08-13
1016	HARSHIT KUMAR	MALE	98	11	B	Science	2003-05-22
1023	YASH SAXENA	MALE	79	11	C	Science	1998-03-13

4 rows in set (0.00 sec)

### ACTIVITY -3:

1. To display the STUDENT table structure.

```
mysql> DESC tbl_student;
```

Field	Type	Null	Key	Default	Extra
StdId	int	NO	PRI	NULL	
StdName	varchar(30)	NO		NULL	
sex	varchar(7)	YES		NULL	
percentage	int	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. To add a column (FIELD) in the STUDENT table, for example TeacherID as VARCHAR(20);

```
mysql> alter table tbl_student add TeachedID varchar(20);
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

### 3. Type the statement

```
mysql> desc tbl_student;
```

Field	Type	Null	Key	Default	Extra
StdId	int	NO	PRI	NULL	
StdName	varchar(30)	NO		NULL	
sex	varchar(7)	YES		NULL	
percentage	int	YES		NULL	
sclass	int	YES		NULL	
Sec	varchar(1)	YES		NULL	
Stream	varchar(10)	YES		NULL	
DOB	date	YES		NULL	
TeachedID	varchar(20)	YES		NULL	

9 rows in set (0.00 sec)

4. Type the statement and press enter key, note the new field that you have added as TeacherID

```
mysql> select * from tbl_student;
```

StdId	StdName	sex	percentage	sclass	Sec	Stream	DOB	TeachedID
1001	AKSHRA AGARWAL	FEMALE	70	11	A	science	1996-11-10	NULL
1002	ANJANI SHARMA	FEMALE	75	11	A	Commerce	1996-09-18	NULL
1003	ANSHUL SAXENA	MALE	78	11	A	Commerce	1996-11-19	NULL
1004	AISHWARIYA SINGH	FEMALE	79	11	A	Commerce	1996-11-01	NULL
1005	AKRITI SAXENA	FEMALE	76	11	A	Commerce	1996-09-20	NULL
1006	KHUSHI AGARWAL	FEMALE	77	11	A	Commerce	1996-09-14	NULL
1007	MAAHI AGARWAL	FEMALE	74	11	A	Science	1997-04-21	NULL
1008	MITALI GUPTA	FEMALE	78	12	A	Science	1997-11-26	NULL
1009	NIKUNJ AGARWAL	MALE	58	12	A	Science	1997-07-12	NULL
1010	PARKHI	FEMALE	59	12	A	Commerce	1997-12-20	NULL
1011	PRAKHAR TIWARI	MALE	43	12	A	Science	1997-04-22	NULL
1012	RAGHAV GANDWAR	MALE	58	12	A	Commerce	1997-08-13	NULL
1013	SAHIL SARASWAT	MALE	57	12	A	Commerce	1997-08-13	NULL
1014	SWATI MISHRA	FEMALE	98	11	A	Science	1997-08-13	NULL
1015	HARSHAGARWAL	MALE	58	11	B	Science	2003-08-28	NULL
1016	HARSHIT KUMAR	MALE	98	11	B	Science	2003-05-22	NULL
1017	JAHAVI KAPOOR	MALE	65	11	B	Science	1997-01-10	NULL
1018	STUTI MISHRA	MALE	66	11	C	Commerce	1996-01-10	NULL
1019	SURYANSH KUMAR AGARWAL	MALE	85	11	C	Commerce	2007-08-22	NULL
1020	TANI RASTOGI	FEMALE	75	12	C	Commerce	1998-01-15	NULL
1021	TANISHK GUPTA	MALE	55	12	C	Science	1998-04-11	NULL
1022	TANMAY AGARWAL	MALE	57	11	C	Commerce	1998-06-28	NULL
1023	YASH SAXENA	MALE	79	11	C	Science	1998-03-13	NULL
1024	YESH DUBEY	MALE	85	12	C	Commerce	1998-04-03	NULL

24 rows in set (0.00 sec)

5. To modify the TeacherID data type from character to integer.

```
ALTER TABLE Student MODIFY TeacherID INTEGER ;
DESC Student;
SELECT * FROM student;
```

```
mysql> alter table tbl_student modify TeachedID int ;
Query OK, 24 rows affected (0.03 sec)
Records: 24 Duplicates: 0 Warnings: 0
```

```
mysql> desc tbl_student;
```

Field	Type	Null	Key	Default	Extra
StdId	int	NO	PRI	NULL	
StdName	varchar(30)	NO		NULL	
sex	varchar(7)	YES		NULL	
percentage	int	YES		NULL	
sclass	int	YES		NULL	
Sec	varchar(1)	YES		NULL	
Stream	varchar(10)	YES		NULL	
DOB	date	YES		NULL	
TeachedID	int	YES		NULL	

```
9 rows in set (0.00 sec)
```

```
mysql> select * from tbl_student;
```

StdId	StdName	sex	percentage	sclass	Sec	Stream	DOB	TeachedID
1001	AKSHRA AGARWAL	FEMALE	70	11	A	science	1996-11-10	NULL
1002	ANJANI SHARMA	FEMALE	75	11	A	Commerce	1996-09-18	NULL
1003	ANSHUL SAXENA	MALE	78	11	A	Commerce	1996-11-19	NULL
1004	AISHWARIYA SINGH	FEMALE	79	11	A	Commerce	1996-11-01	NULL
1005	AKRITI SAXENA	FEMALE	76	11	A	Commerce	1996-09-20	NULL
1006	KHUSHI AGARWAL	FEMALE	77	11	A	Commerce	1996-09-14	NULL
1007	MAAHI AGARWAL	FEMALE	74	11	A	Science	1997-04-21	NULL
1008	MITALI GUPTA	FEMALE	78	12	A	Science	1997-11-26	NULL
1009	NIKUNJ AGARWAL	MALE	58	12	A	Science	1997-07-12	NULL
1010	PARKHI	FEMALE	59	12	A	Commerce	1997-12-20	NULL
1011	PRAKHAR TIWARI	MALE	43	12	A	Science	1997-04-22	NULL
1012	RAGHAV GANDWAR	MALE	58	12	A	Commerce	1997-08-13	NULL
1013	SAHIL SARASWAT	MALE	57	12	A	Commerce	1997-08-13	NULL
1014	SWATI MISHRA	FEMALE	98	11	A	Science	1997-08-13	NULL
1015	HARSHAGARWAL	MALE	58	11	B	Science	2003-08-28	NULL
1016	HARSHIT KUMAR	MALE	98	11	B	Science	2003-05-22	NULL
1017	JAHAVNI KAPOOR	MALE	65	11	B	Science	1997-01-10	NULL
1018	STUTI MISHRA	MALE	66	11	C	Commerce	1996-01-10	NULL
1019	SURYANSH KUMAR AGARWAL	MALE	85	11	C	Commerce	2007-08-22	NULL
1020	TANI RASTOGI	FEMALE	75	12	C	Commerce	1998-01-15	NULL
1021	TANISHK GUPTA	MALE	55	12	C	Science	1998-04-11	NULL
1022	TANMAY AGARWAL	MALE	57	11	C	Commerce	1998-06-28	NULL
1023	YASH SAXENA	MALE	79	11	C	Science	1998-03-13	NULL
1024	YESH DUBEY	MALE	85	12	C	Commerce	1998-04-03	NULL

## ACTIVITY-4:

1. To Drop (Delete) a field from a table. For e.g you want to delete the TeacherID field.

```
ALTER TABLE Student DROP TeacherID;
```

```
mysql> alter table tbl_student drop TeachedID;
```

```
Query OK, 0 rows affected (0.01 sec)
```

```
Records: 0 Duplicates: 0 Warnings: 0
```

2. To subtract 5 from all students' percentage and display name and percentage.

```
SELECT name, percentage - 5 FROM Student;
```

```
mysql> select StdName ,Percentage -5 from tbl_student;
```

StdName	Percentage -5
AKSHRA AGARWAL	65
ANJANI SHARMA	70
ANSHUL SAXENA	73
AISHWARIYA SINGH	74
AKRITI SAXENA	71
KHUSHI AGARWAL	72
MAAHI AGARWAL	69
MITALI GUPTA	73
NIKUNJ AGARWAL	53
PARKHI	54
PRAKHAR TIWARI	38
RAGHAV GANDWAR	53
SAHIL SARASWAT	52
SWATI MISHRA	93
HARSHAGARWAL	53
HARSHIT KUMAR	93
JAHANVI KAPOOR	60
STUTI MISHRA	61
SURYANSH KUMAR AGARWAL	80
TANI RASTOGI	70
TANISHK GUPTA	50
TANMAY AGARWAL	52
YASH SAXENA	74
YESH DUBEY	80

24 rows in set (0.00 sec)

**3. Using column alias for example we want to display StdName as Student Name and DOB as Date of Birth then the statement will be.**

```
SELECT StdName AS "Student Name",  
DOB As "Date of Birth" FROM Student;
```

```
mysql> select StdName as "Student Name" , DOB as "Date of Birth" from  
tbl_student;
```

Student Name	Date of Birth
AKSHRA AGARWAL	1996-11-10
ANJANI SHARMA	1996-09-18
ANSHUL SAXENA	1996-11-19
AISHWARIYA SINGH	1996-11-01
AKRITI SAXENA	1996-09-20
KHUSHI AGARWAL	1996-09-14
MAAHI AGARWAL	1997-04-21
MITALI GUPTA	1997-11-26
NIKUNJ AGARWAL	1997-07-12
PARKHI	1997-12-20
PRAKHAR TIWARI	1997-04-22
RAGHAV GANDWAR	1997-08-13
SAHIL SARASWAT	1997-08-13
SWATI MISHRA	1997-08-13
HARSHAGARWAL	2003-08-28
HARSHIT KUMAR	2003-05-22
JAHANVI KAPOOR	1997-01-10
STUTI MISHRA	1996-01-10
SURYANSH 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. Display the name of all students whose stream is not Science

```
mysql> select StdName from tbl_student where Stream!="Science";
```

```
+-----+
| StdName          |
+-----+
| ANJANI SHARMA    |
| ANSHUL SAXENA    |
| AISHWARIYA SINGH |
| AKRITI SAXENA    |
| KHUSHI AGARWAL   |
| PARKHI           |
| RAGHAV GANDWAR   |
| SAHIL SARASWAT   |
| STUTI MISHRA     |
| SURYANSH KUMAR AGARWAL |
| TANI RASTOGI     |
| TANMAY AGARWAL   |
| YESH DUBEY       |
+-----+
13 rows in set (0.00 sec)
```

```
mysql> select StdName from tbl_student where Stream<>"Science";
```

```
+-----+
| StdName          |
+-----+
| ANJANI SHARMA    |
| ANSHUL SAXENA    |
| AISHWARIYA SINGH |
| AKRITI SAXENA    |
| KHUSHI AGARWAL   |
| PARKHI           |
| RAGHAV GANDWAR   |
| SAHIL SARASWAT   |
| STUTI MISHRA     |
| SURYANSH KUMAR AGARWAL |
| TANI RASTOGI     |
| TANMAY AGARWAL   |
| YESH DUBEY       |
+-----+
13 rows in set (0.00 sec)
```

**5. Display all name and percentage where percentage is between 60 and 80**

```
SELECT StdName, percentage FROM student WHERE percentage >=60 AND  
percentage<=80 ;
```

```
mysql> select StdName ,Percentage from tbl_student where Percentage  
>=60 and percentage <=80;
```

StdName	Percentage
AKSHRA AGARWAL	70
ANJANI SHARMA	75
ANSHUL SAXENA	78
AISHWARIYA SINGH	79
AKRITI SAXENA	76
KHUSHI AGARWAL	77
MAAHI AGARWAL	74
MITALI GUPTA	78
JAHANVI KAPOOR	65
STUTI MISHRA	66
TANI RASTOGI	75
YASH SAXENA	79

12 rows in set (0.00 sec)

### **ACTIVITY-5:**

**1.To change a student name from SWATIMISHRA to SWATIVERMA whose StdID is 1014 and also change percentage 86.**

```
UPDATE tbl_student SET StdName = 'SWATI VERMA', percentage = 86  
WHERE StdId = 1014;
```

```
mysql> update tbl_student set StdName='SWATI VERMA',Percentage =86  
where StdId=1014;
```

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

2. To delete the records form student table where StdId is 1016.

**DELETE FROM Student WHERE StdID = 1016;**

mysql> delete from tbl\_student where StdId=1016;

Query OK, 1 row affected (0.00 sec)

3. Type the following SQL statement and note the output.

**a.SELECT \* FROM tbl\_student WHERE StdName LIKE 'G\_' ;**

mysql> SELECT \* FROM tbl\_student WHERE StdName LIKE 'G\_' ;

Empty set (0.00 sec)

**b.SELECT \* FROM tbl\_Student WHERE StdName='G';**

mysql> SELECT \* FROM tbl\_Student WHERE StdName='G';

Empty set (0.00 sec)

**c.SELECT \* FROM tbl\_Student WHERE StdName LIKE 'A%' ;**

mysql> SELECT \* FROM tbl\_Student WHERE StdName LIKE 'A%' ;

```
+-----+-----+-----+-----+-----+-----+-----+-----+
| StdId | StdName          | sex   | percentage | sclass | Sec | Stream | DOB          |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1001  | AKSHRA AGARWAL   | FEMALE | 70         | 11     | A   | science | 1996-11-10   |
| 1002  | ANJANI SHARMA    | FEMALE | 75         | 11     | A   | Commerce | 1996-09-18   |
| 1003  | ANSHUL SAXENA    | MALE   | 78         | 11     | A   | Commerce | 1996-11-19   |
| 1004  | AISHWARIYA SINGH | FEMALE | 79         | 11     | A   | Commerce | 1996-11-01   |
| 1005  | AKRITI SAXENA    | FEMALE | 76         | 11     | A   | Commerce | 1996-09-20   |
+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

**d.SELECT \* from tbl\_student WHERE StdName='%A%' ;**

mysql> SELECT \* from tbl\_student WHERE StdName='%A%' ;

Empty set (0.00 sec)



**4. Display all the streams in the student table.**

```
SELECT DISTINCT Stream FROM tbl_student;
```

```
mysql> SELECT DISTINCT Stream FROM tbl_student;
```

```
+-----+
| Stream |
+-----+
| science |
| Commerce |
+-----+
2 rows in set (0.00 sec)
```

**5. Note the output of the following statement.**

```
SELECT StdName, Sex, Stream FROM tbl_student WHERE percentage BETWEEN 70 AND 80;
```

```
mysql> SELECT StdName, Sex, Stream FROM tbl_student WHERE percentage BETWEEN 70 AND 80;
```

```
+-----+-----+-----+
| StdName          | Sex    | Stream |
+-----+-----+-----+
| AKSHRA AGARWAL   | FEMALE | science |
| ANJANI SHARMA    | FEMALE | Commerce |
| ANSHUL SAXENA    | MALE   | Commerce |
| AISHWARIYA SINGH | FEMALE | Commerce |
| AKRITI SAXENA    | FEMALE | Commerce |
| KHUSHI AGARWAL   | FEMALE | Commerce |
| MAAHI AGARWAL    | FEMALE | Science |
| MITALI GUPTA     | FEMALE | Science |
| TANI RASTOGI     | FEMALE | Commerce |
| YASH SAXENA      | MALE   | Science |
+-----+-----+-----+
10 rows in set (0.00 sec)
```

**Do Yourself:**

**Create a Table Empl to store employee details as shown below and write statements for following queries based on the table.**

**1. Consider the Empl table and write SQL command to get the following.**

```
mysql> select * from tbl_employee;
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
8369	SMITH	CLERK	8902	1990-12-18	800.00	NULL	20
8499	ANYA	SALESMAN	8698	1991-02-20	1600.00	300.00	30
8521	SETH	SALESMAN	8698	1991-02-22	1250.00	500.00	30
8566	MAHADEVAN	MANAGER	8839	1991-04-02	2985.00	NULL	20
8654	MOMIN	SALESMAN	8698	1991-09-28	1250.00	1400.00	30
8698	BINA	MANAGER	8839	1991-05-01	2850.00	NULL	30
8882	SHIVANSH	MANAGER	8839	1991-06-09	2450.00	NULL	10
8888	SCOTT	ANALYST	8566	1992-12-09	3000.00	NULL	20
8839	AMIR	PRESIDENT	NULL	1991-11-18	5000.00	NULL	10
8844	KULDEEP	SALESMAN	8698	1991-09-08	1500.00	0.00	30

10 rows in set (0.00 sec)

**a. Write a query to display EName and Sal of employees whose salary are greater than or equal to 2200?**

```
mysql> select ename,sal from tbl_employee where sal>=2200;
```

ename	sal
MAHADEVAN	2985.00
BINA	2850.00
SHIVANSH	2450.00
SCOTT	3000.00
AMIR	5000.00

5 rows in set (0.00 sec)

**b. Write a query to display details of employs who are not getting commission?**

```
mysql> select * from tbl_employee where comm=0 or comm is null;
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
8369	SMITH	CLERK	8902	1990-12-18	800.00	NULL	20
8566	MAHADEVAN	MANAGER	8839	1991-04-02	2985.00	NULL	20
8698	BINA	MANAGER	8839	1991-05-01	2850.00	NULL	30
8882	SHIVANSH	MANAGER	8839	1991-06-09	2450.00	NULL	10
8888	SCOTT	ANALYST	8566	1992-12-09	3000.00	NULL	20
8839	AMIR	PRESIDENT	NULL	1991-11-18	5000.00	NULL	10
8844	KULDEEP	SALESMAN	8698	1991-09-08	1500.00	0.00	30

7 rows in set (0.00 sec)

**c. Write a query to display employee name and salary of those employees who don't have their salary in range of 2500 to 4000?**

```
mysql> select * from tbl_employee where sal between 2500 and 4000;
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
8566	MAHADEVAN	MANAGER	8839	1991-04-02	2985.00	NULL	20
8698	BINA	MANAGER	8839	1991-05-01	2850.00	NULL	30
8888	SCOTT	ANALYST	8566	1992-12-09	3000.00	NULL	20

3 rows in set (0.00 sec)

**d. Write a query to display the name, job title and salary of employees who don't have manager?**

```
mysql> select ename,job,sal from tbl_employee where mgr is NULL;
```

ename	job	sal
AMIR	PRESIDENT	5000.00

1 row in set (0.00 sec)

**e. Write a query to display the name of employee whose name contains "A" as third alphabet?**

```
mysql> select * from tbl_employee where ename like '__a%';  
Empty set (0.00 sec)
```

**f. Write a query to display the name of employee whose name contains "T" as last alphabet?**

```
mysql> select * from tbl_employee where ename like '%T';
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+  
| empno | ename | job      | mgr | hiredate   | sal      | comm | deptno |  
+-----+-----+-----+-----+-----+-----+-----+-----+  
| 8888 | SCOTT | ANALYST | 8566 | 1992-12-09 | 3000.00 | NULL | 20 |  
+-----+-----+-----+-----+-----+-----+-----+-----+  
1 row in set (0.00 sec)
```

**g. Write a query to display the name of employee whose name contains "M" as First and "L" as third alphabet?**

```
mysql> select * from tbl_employee where ename like 'm_l';  
Empty set (0.00 sec)
```

**h. Write a query to display details of employs with the text "Not given", if commission is null?**

```
mysql> select * from tbl_employee where comm is null and  
job='Not given';  
Empty set (0.00 sec)
```