

SQL PRACTICAL ASSIGNMENT

Lab 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

Output:

```
mysql> create table student(stdId int (4) primary key,StdName varchar(30) not null, Sex varchar(10),Percentage decimal(5,2), sclass int, sec varchar(1), stream varchar(10), DOB date );
Query OK, 0 rows affected, 1 warning (0.04 sec)

mysql> insert into student values (1001,'AKSHRA AGARWAL','FEMALE',70,11,'A','Science','10-11-1996');
ERROR 1292 (22007): Incorrect date value: '10-11-1996' for column 'DOB' at row 1
mysql> insert into student values (1002,'ANJANI SHARMA','FEMALE',75,11,'A','Commerce','1996-09-18');
Query OK, 1 row affected (0.01 sec)

mysql> insert into student values (1003,'ANSHUL SAXENA','MALE',78,11,'A','Commerce','1996-11-19');
Query OK, 1 row affected (0.01 sec)

mysql> insert into student values (1004,'AISHWARYA SINGH','FEMALE',79,11,'A','Commerce','1996-11-1');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> desc student;
```

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)
```

Step 2: Press Enter key to complete create table:

Step3: Insert records into STUDENTtable.

**INSERT INTO Student VALUES (1001, 'AKSHRA AGARWAL','FEMALE',70,11,'A',
'10/11/1996');**

Step4:As you press enter key after typing above statement,1 record will be stored into STUDENT table.

Step5: Similarly like step 3, enter other records of the following table.

Output:

```
mysql> select * from student;
```

stdId	StdName	Sex	Percentage	sclass	sec	stream	DOB
1002	ANJANI SHARMA	FEMALE	75.00	11	A	Commerce	1996-09-18
1003	ANSHUL SAXENA	MALE	78.00	11	A	Commerce	1996-11-19
1004	AISHWARYA SINGH	FEMALE	79.00	11	A	Commerce	1996-11-01
1005	AKRITI SAXENA	FEMALE	76.00	11	A	Commerce	1996-09-20
1006	KHUSHI AGARWAL	FEMALE	77.00	11	A	Commerce	2003-09-14
1007	MAAHI AGARWAL	FEMALE	74.00	11	A	Science	1997-04-21
1008	MITALI GUPTA	FEMALE	78.00	12	A	Science	1997-11-26
1009	NIKUNJ AGARWAL	MALE	58.00	12	A	Science	1997-07-12
1010	PARKHI	FEMALE	59.00	12	A	Commerce	1997-12-20
1011	PRAKHAR TIWARI	MALE	43.00	12	A	Science	1997-04-22
1012	PRAGHAV GANGWAR	MALE	58.00	12	A	Commerce	1997-12-21
1013	SAHIL SARASWAT	MALE	57.00	12	A	Commerce	1997-08-13
1014	HARSH AGARWAL	MALE	58.00	11	A	Science	1996-08-28
1015	SWATI MISHRA	FEMALE	98.00	11	A	Science	2003-08-28
1016	HARSHIT KUMAR	MALE	98.00	11	B	Science	2003-05-22
1017	JAHANVI KAPOOR	MALE	65.00	11	B	Science	1997-01-10
1018	SHUTI MISHRA	MALE	66.00	11	C	Commerce	1996-01-10
1019	SURYANSH KUMAR AGARWAL	MALE	85.00	11	C	Commerce	2007-08-22
1020	TANI RASTOGI	FEMALE	75.00	11	C	Commerce	1998-01-15
1021	TANISHK GUPTA	MALE	55.00	12	C	Science	1998-04-11
1022	TANMAY AGARWAL	MALE	57.00	11	C	Commerce	1998-06-28
1023	YASH SAXENA	MALE	79.00	11	C	Science	1998-03-13
1024	YASH DUBEY	MALE	85.00	12	C	Commerce	1998-03-03

23 rows in set (0.00 sec)

Lab Activity 2: Open school database, then select student table and use following SQL statements.

TYPE THE STATEMENT, PRESS ENTER AND NOTE THE OUTPUT

1 To display all the records form STUDENT table.

SELECT * FROM student ;

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

```
SELECT StdName, DOB FROM student ;
```

Output:

```
mysql> select stdName,DOB from student;
+-----+-----+
| stdName          | DOB          |
+-----+-----+
| 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   |
| PRAKHAR TIWARI   | 1997-04-22   |
| PRAGHAV GANGWAR  | 1997-12-21   |
| SAHIL SARASWAT   | 1997-08-13   |
| HARSH AGARWAL    | 1996-08-28   |
| SWATI MISHRA     | 2003-08-28   |
| HARSHIT KUMAR    | 2003-05-22   |
| JAHANVI KAPOOR   | 1997-01-10   |
| SHUTI 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   |
| YASH DUBEY       | 1998-03-03   |
+-----+-----+
23 rows in set (0.00 sec)
```

3. To display all students record where percentage is greater of equal to 80 FROM student table.

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

```
mysql> select*from student where percentage >=80;
+-----+-----+-----+-----+-----+-----+-----+-----+
| stdId | StdName          | Sex   | Percentage | sclass | sec | stream | DOB          |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1015  | SWATI MISHRA     | FEMALE | 98.00      | 11     | A   | Science | 2003-08-28   |
| 1016  | HARSHIT KUMAR    | MALE   | 98.00      | 11     | B   | Science | 2003-05-22   |
| 1019  | SURYANSH KUMAR AGARWAL | MALE   | 85.00      | 11     | C   | Commerce | 2007-08-22   |
| 1024  | YASH DUBEY       | MALE   | 85.00      | 12     | C   | Commerce | 1998-03-03   |
+-----+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

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

SELECT StdName, Stream, Percentage WHERE percentage > 80;

Output:

```
mysql> select stdName,stream,Percentage from student where percentage >80;
+-----+-----+-----+
| stdName          | stream  | Percentage |
+-----+-----+-----+
| SWATI MISHRA     | Science | 98.00      |
| HARSHIT KUMAR    | Science | 98.00      |
| SURYANSH KUMAR AGARWAL | Commerce | 85.00      |
| YASH DUBEY       | Commerce | 85.00      |
+-----+-----+-----+
4 rows in set (0.00 sec)
```

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

SELECT * FORM student WHERE stream = 'Science' AND percentage > 75;

Output:

```
mysql> select*from student where stream = 'Science'and percentage > 75;
+-----+-----+-----+-----+-----+-----+-----+-----+
| stdId | StdName      | Sex   | Percentage | sclass | sec | stream  | DOB       |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1008  | MITALI GUPTA | FEMALE | 78.00      | 12     | A   | Science | 1997-11-26 |
| 1015  | SWATI MISHRA | FEMALE | 98.00      | 11     | A   | Science | 2003-08-28 |
| 1016  | HARSHIT KUMAR | MALE   | 98.00      | 11     | B   | Science | 2003-05-22 |
| 1023  | YASH SAXENA  | MALE   | 79.00      | 11     | C   | Science | 1998-03-13 |
+-----+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

Lab Activity 3: Open school database, then select student table and use following SQL statements.

TYPE THE STATEMENT, PRESS ENTER AND NOTE THE OUTPUT

1. To display the STUDENT table structure.

DESCRIBE Student;

Output:

```
mysql> describe student;
```

Field	Type	Null	Key	Default	Extra
stdId	int	NO	PRI	NULL	
StdName	varchar(30)	NO		NULL	
Sex	varchar(10)	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. To add a column (FIELD)in the STUDENT table,for example TeacherID as VARCHAR(20);

ALTER TABLE Student ADD TeacherID VARCHAR(20);

Output:

```
mysql> alter table student add teacherID varchar(20);
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> describe student;
```

Field	Type	Null	Key	Default	Extra
stdId	int	NO	PRI	NULL	
StdName	varchar(30)	NO		NULL	
Sex	varchar(10)	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)
```

3. Type the statement DESC Student;

Press enter key, now note the difference in table structure.

```
mysql> describe student;
```

Field	Type	Null	Key	Default	Extra
stdId	int	NO	PRI	NULL	
StdName	varchar(30)	NO		NULL	
Sex	varchar(10)	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. Type the statement and press enter key, note the new field that you have added as TeacherID

SELECT * FROM student;

```
mysql> select * from student;
```

stdId	StdName	Sex	Percentage	sclass	sec	stream	DOB	teacherID
1002	ANJANI SHARMA	FEMALE	75.00	11	A	Commerce	1996-09-18	NULL
1003	ANSHUL SAXENA	MALE	78.00	11	A	Commerce	1996-11-19	NULL
1004	AISHWARYA SINGH	FEMALE	79.00	11	A	Commerce	1996-11-01	NULL
1005	AKRITI SAXENA	FEMALE	76.00	11	A	Commerce	1996-09-20	NULL
1006	KHUSHI AGARWAL	FEMALE	77.00	11	A	Commerce	2003-09-14	NULL
1007	MAAHI AGARWAL	FEMALE	74.00	11	A	Science	1997-04-21	NULL
1008	MITALI GUPTA	FEMALE	78.00	12	A	Science	1997-11-26	NULL
1009	NIKUNJ AGARWAL	MALE	58.00	12	A	Science	1997-07-12	NULL
1010	PARKHI	FEMALE	59.00	12	A	Commerce	1997-12-20	NULL
1011	PRAKHAR TIWARI	MALE	43.00	12	A	Science	1997-04-22	NULL
1012	PRAGHAV GANGWAR	MALE	58.00	12	A	Commerce	1997-12-21	NULL
1013	SAHIL SARASWAT	MALE	57.00	12	A	Commerce	1997-08-13	NULL
1014	HARSH AGARWAL	MALE	58.00	11	A	Science	1996-08-28	NULL
1015	SWATI MISHRA	FEMALE	98.00	11	A	Science	2003-08-28	NULL
1016	HARSHIT KUMAR	MALE	98.00	11	B	Science	2003-05-22	NULL
1017	JAHANVI KAPOOR	MALE	65.00	11	B	Science	1997-01-10	NULL
1018	SHUTI MISHRA	MALE	66.00	11	C	Commerce	1996-01-10	NULL
1019	SURYANSH KUMAR AGARWAL	MALE	85.00	11	C	Commerce	2007-08-22	NULL
1020	TANI RASTOGI	FEMALE	75.00	11	C	Commerce	1998-01-15	NULL
1021	TANISHK GUPTA	MALE	55.00	12	C	Science	1998-04-11	NULL
1022	TANMAY AGARWAL	MALE	57.00	11	C	Commerce	1998-06-28	NULL
1023	YASH SAXENA	MALE	79.00	11	C	Science	1998-03-13	NULL
1024	YASH DUBEY	MALE	85.00	12	C	Commerce	1998-03-03	NULL

23 rows in set (0.00 sec)

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```
mysql> alter table student modify teacherID integer;
Query OK, 23 rows affected (0.09 sec)
Records: 23  Duplicates: 0  Warnings: 0

mysql> describe student;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| stdId | int | NO | PRI | NULL |  |
| StdName | varchar(30) | NO |  | NULL |  |
| Sex | varchar(10) | 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)
```

```
mysql> select*from student ;
```

stdId	StdName	Sex	Percentage	sclass	sec	stream	DOB	teacherID
1002	ANJANI SHARMA	FEMALE	75.00	11	A	Commerce	1996-09-18	NULL
1003	ANSHUL SAXENA	MALE	78.00	11	A	Commerce	1996-11-19	NULL
1004	AISHWARYA SINGH	FEMALE	79.00	11	A	Commerce	1996-11-01	NULL
1005	AKRITI SAXENA	FEMALE	76.00	11	A	Commerce	1996-09-20	NULL
1006	KHUSHI AGARWAL	FEMALE	77.00	11	A	Commerce	2003-09-14	NULL
1007	MAAHI AGARWAL	FEMALE	74.00	11	A	Science	1997-04-21	NULL
1008	MITALI GUPTA	FEMALE	78.00	12	A	Science	1997-11-26	NULL
1009	NIKUNJ AGARWAL	MALE	58.00	12	A	Science	1997-07-12	NULL
1010	PARKHI	FEMALE	59.00	12	A	Commerce	1997-12-20	NULL
1011	PRAKHAR TIWARI	MALE	43.00	12	A	Science	1997-04-22	NULL
1012	PRAGHAV GANGWAR	MALE	58.00	12	A	Commerce	1997-12-21	NULL
1013	SAHIL SARASWAT	MALE	57.00	12	A	Commerce	1997-08-13	NULL
1014	HARSH AGARWAL	MALE	58.00	11	A	Science	1996-08-28	NULL
1015	SWATI MISHRA	FEMALE	98.00	11	A	Science	2003-08-28	NULL
1016	HARSHIT KUMAR	MALE	98.00	11	B	Science	2003-05-22	NULL
1017	JAHAVNI KAPOOR	MALE	65.00	11	B	Science	1997-01-10	NULL
1018	SHUTI MISHRA	MALE	66.00	11	C	Commerce	1996-01-10	NULL
1019	SURYANSH KUMAR AGARWAL	MALE	85.00	11	C	Commerce	2007-08-22	NULL
1020	TANI RASTOGI	FEMALE	75.00	11	C	Commerce	1998-01-15	NULL
1021	TANISHK GUPTA	MALE	55.00	12	C	Science	1998-04-11	NULL
1022	TANMAY AGARWAL	MALE	57.00	11	C	Commerce	1998-06-28	NULL
1023	YASH SAXENA	MALE	79.00	11	C	Science	1998-03-13	NULL
1024	YASH DUBEY	MALE	85.00	12	C	Commerce	1998-03-03	NULL

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

Lab Activity 4

1. To Drop (Delete) a field form a table. For e.g you wantto delete TeacherID field.

ALTER TABLE Student DROP TeacherID;

```
mysql> alter table Student drop teacherID;  
Query OK, 0 rows affected (0.01 sec)  
Records: 0 Duplicates: 0 Warnings: 0
```

2. To subtract 5 form all students percentage and display name and percentage.

SELECT name, percentage - 5 FROM Student;

```
mysql> select StdName,Percentage-5 from student;  
+-----+-----+  
| StdName          | Percentage-5 |  
+-----+-----+  
| 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       |  
| PRAKHAR TIWARI   | 38.00       |  
| PRAGHAV GANGWAR  | 53.00       |  
| SAHIL SARASWAT   | 52.00       |  
| HARSH AGARWAL    | 53.00       |  
| SWATI MISHRA     | 93.00       |  
| HARSHIT KUMAR    | 93.00       |  
| JAHANVI KAPOOR   | 60.00       |  
| SHUTI MISHRA     | 61.00       |  
| SURYANSH KUMAR AGARWAL | 80.00       |  
| TANI RASTOGI     | 70.00       |  
| TANISHK GUPTA    | 50.00       |  
| TANMAY AGARWAL   | 52.00       |  
| YASH SAXENA      | 74.00       |  
| YASH DUBEY       | 80.00       |  
+-----+-----+  
23 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 student;
```

student name	Date Of Birth
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
PRAKHAR TIWARI	1997-04-22
PRAGHAV GANGWAR	1997-12-21
SAHIL SARASWAT	1997-08-13
HARSH AGARWAL	1996-08-28
SWATI MISHRA	2003-08-28
HARSHIT KUMAR	2003-05-22
JAHANVI KAPOOR	1997-01-10
SHUTI 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
YASH DUBEY	1998-03-03

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

4. Display the name of all students whose stream is not Science

```
SELECT StdNameFROMstudent
WHERE Stream<>'Science';
```

```
mysql> select stdName from student where stream <>'science';
+-----+
| stdName |
+-----+
| ANJANI SHARMA |
| ANSHUL SAXENA |
| AISHWARYA SINGH |
| AKRITI SAXENA |
| KHUSHI AGARWAL |
| PARKHI |
| PRAGHAV GANGWAR |
| SAHIL SARASWAT |
| SHUTI MISHRA |
| SURYANSH KUMAR AGARWAL |
| TANI RASTOGI |
| TANMAY AGARWAL |
| YASH 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 student where Percentage >=60 and Percentage<=80;
+-----+-----+
| stdName | Percentage |
+-----+-----+
| ANJANI SHARMA | 75.00 |
| ANSHUL SAXENA | 78.00 |
| AISHWARYA SINGH | 79.00 |
| AKRITI SAXENA | 76.00 |
| KHUSHI AGARWAL | 77.00 |
| MAAHI AGARWAL | 74.00 |
| MITALI GUPTA | 78.00 |
| JAHANVI KAPOOR | 65.00 |
| SHUTI MISHRA | 66.00 |
| TANI RASTOGI | 75.00 |
| YASH SAXENA | 79.00 |
+-----+-----+
11 rows in set (0.00 sec)
```

Lab Activity 5:

1. To change a student name from SWATI MISHRA to SWATI VERMA whose StdID is 1014 and also change percentage 86.

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

```
mysql> update student set stdName='SWATI VERMA',percentage=86 where stdID= 1015;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

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

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

```
mysql> delete from student where stdID = 1016;
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from student;
```

stdId	StdName	Sex	Percentage	sclass	sec	stream	DOB
1002	ANJANI SHARMA	FEMALE	75.00	11	A	Commerce	1996-09-18
1003	ANSHUL SAXENA	MALE	78.00	11	A	Commerce	1996-11-19
1004	AISHWARYA SINGH	FEMALE	79.00	11	A	Commerce	1996-11-01
1005	AKRITI SAXENA	FEMALE	76.00	11	A	Commerce	1996-09-20
1006	KHUSHI AGARWAL	FEMALE	77.00	11	A	Commerce	2003-09-14
1007	MAAHI AGARWAL	FEMALE	74.00	11	A	Science	1997-04-21
1008	MITALI GUPTA	FEMALE	78.00	12	A	Science	1997-11-26
1009	NIKUNJ AGARWAL	MALE	58.00	12	A	Science	1997-07-12
1010	PARKHI	FEMALE	59.00	12	A	Commerce	1997-12-20
1011	PRAKHAR TIWARI	MALE	43.00	12	A	Science	1997-04-22
1012	PRAGHAV GANGWAR	MALE	58.00	12	A	Commerce	1997-12-21
1013	SAHIL SARASWAT	MALE	57.00	12	A	Commerce	1997-08-13
1014	HARSH AGARWAL	MALE	58.00	11	A	Science	1996-08-28
1015	SWATI VERMA	FEMALE	86.00	11	A	Science	2003-08-28
1017	JAHANVI KAPOOR	MALE	65.00	11	B	Science	1997-01-10
1018	SHUTI MISHRA	MALE	66.00	11	C	Commerce	1996-01-10
1019	SURYANSH KUMAR AGARWAL	MALE	85.00	11	C	Commerce	2007-08-22
1020	TANI RASTOGI	FEMALE	75.00	11	C	Commerce	1998-01-15
1021	TANISHK GUPTA	MALE	55.00	12	C	Science	1998-04-11
1022	TANMAY AGARWAL	MALE	57.00	11	C	Commerce	1998-06-28
1023	YASH SAXENA	MALE	79.00	11	C	Science	1998-03-13
1024	YASH DUBEY	MALE	85.00	12	C	Commerce	1998-03-03

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

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

```
SELECT * FROM Student WHERE StdName LIKE 'G_';  
SELECT * FROM Student WHERE StdName='G';  
SELECT * FROM Student WHERE StdName LIKE 'G%';  
SELECT * FROM Student WHERE StdName='%G%';
```

```
mysql> select * from student where stdName like 'G_';  
Empty set (0.00 sec)  
  
mysql> select * from student where stdName like 'G';  
Empty set (0.00 sec)  
  
mysql> select * from student where stdName like 'G%';  
Empty set (0.00 sec)  
  
mysql> select * from student where stdName like '%G%';  
+-----+-----+-----+-----+-----+-----+-----+-----+  
| stdId | StdName          | Sex   | Percentage | sclass | sec | stream | DOB       |  
+-----+-----+-----+-----+-----+-----+-----+-----+  
| 1004 | AISHWARYA SINGH  | FEMALE | 79.00      | 11     | A   | Commerce | 1996-11-01 |  
| 1006 | KHUSHI AGARWAL   | FEMALE | 77.00      | 11     | A   | Commerce | 2003-09-14 |  
| 1007 | MAAHI AGARWAL    | FEMALE | 74.00      | 11     | A   | Science  | 1997-04-21 |  
| 1008 | MITALI GUPTA     | FEMALE | 78.00      | 12     | A   | Science  | 1997-11-26 |  
| 1009 | NIKUNJ AGARWAL   | MALE   | 58.00      | 12     | A   | Science  | 1997-07-12 |  
| 1012 | PRAGHAV GANGWAR  | MALE   | 58.00      | 12     | A   | Commerce | 1997-12-21 |  
| 1014 | HARSH AGARWAL    | MALE   | 58.00      | 11     | A   | Science  | 1996-08-28 |  
| 1019 | SURYANSH KUMAR AGARWAL | MALE | 85.00      | 11     | C   | Commerce | 2007-08-22 |  
| 1020 | TANI RASTOGI     | FEMALE | 75.00      | 11     | C   | Commerce | 1998-01-15 |  
| 1021 | TANISHK GUPTA    | MALE   | 55.00      | 12     | C   | Science  | 1998-04-11 |  
| 1022 | TANMAY AGARWAL   | MALE   | 57.00      | 11     | C   | Commerce | 1998-06-28 |  
+-----+-----+-----+-----+-----+-----+-----+-----+  
11 rows in set (0.00 sec)
```

4. Display all the streams in student table.

```
SELECT DISTINCT Stream FROM Student;
```

```
mysql> select distinct stream from student;  
+-----+  
| stream |  
+-----+  
| Commerce |  
| Science  |  
+-----+  
2 rows in set (0.00 sec)
```

5. Note the output of the following statement.

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

```
mysql> select stdName,Sex,stream from student where Percentage between 70 and 80;
```

stdName	Sex	stream
ANJANI SHARMA	FEMALE	Commerce
ANSHUL SAXENA	MALE	Commerce
AISHWARYA 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

9 rows in set (0.00 sec)