

SQL PRACTICAL ASSIGNMENT

Activity 1:

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

```
mysql> use mydb  
Database changed
```

Table Creation:

```
mysql> create table student(stdID int(4)primary key, stdName varchar(30) NOT NULL, sex varchar(6),  
Percentage int, SClass int, Sec varchar(1), Stream varchar(10), DOB Date);  
Query OK, 0 rows affected, 1 warning (0.06 sec)
```

Data Inserting:

```
mysql> insert into student values(1001, 'AKSHRA AGARWAL', 'FEMALE',  
70,11,'A','Science','1996-11-10');  
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into student values(1002, 'ANJANI SHARMA', 'FEMALE',  
75,11,'A','Commerce','1996-09-18');  
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into student values(1003, 'ANSHUL SAXENA', 'MALE', 78,11,'A','Commerce','1996-11-19');  
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into student values(1004, 'AISHWARYA SINGH', 'FEMALE',  
79,11,'A','Commerce','1996-11-1');  
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into student values(1005, 'AKRITI SAXENA', 'FEMALE', 76,11,'A','Commerce','1996-09-20');  
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into student values(1006, 'KHUSHI AGARWAL', 'FEMALE',  
77,11,'A','Commerce','2003-09-14');  
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into student values(1007, 'MAAHI AGARWAL', 'FEMALE', 74,11,'A','Science','1997-04-21');  
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into student values(1008, 'MITALI GUPTA', 'FEMALE', 78,12,'A','Science','1997-11-26');  
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into student values(1009, 'NIKUNJ AGARWAL', 'MALE', 58,12,'A','Science','1997-7-12');  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into student values(1010, 'PARKHI', 'FEMALE', 59,12,'A','Commerce','1997-12-20');  
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into student values (1011,'PARKHAR TIWARI','MALE',43,12,'A','Science','1997-4-22');  
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into student values (1012,'RAGHAV  
GANGWAR','MALE',58,12,'A','Commerce','1997-12-21');  
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into student values (1013,'SAHIL SARASWAT','MALE',57,12,'A','Commerce','1997-08-13');  
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into student values (1014,'SWATI MISHRA','FEMALE',98,11,'A','Science','1996-08-13');  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into student values (1015,'HARSH AGARWAL','MALE',58,11,'B','Science','2003-08-28');  
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into student values (1016,'HARSHIT KUMAR','MALE',98,11,'B','Science','2003-05-22');  
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into student values (1017,'JAHANVI KAPOOR','MALE',65,11,'B','Science','1997-01-10');  
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into student values (1018,'STUTI MISHRA','MALE',66,11,'C','Commerce','1996-01-10');  
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into 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 student values (1020,'TANI RASTOGI','FEMALE',75,12,'C','Commerce','1998-01-15');  
Query OK, 1 row affected (0.02 sec)
```

```
mysql>  
mysql> insert into student values (1021,'TANISHK GUPTA','MALE',55,12,'C','Science','1998-04-11');  
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into student values (1022,'TANMAY AGARWAL','MALE',57,11,'C','Commerce','1998-06-28');  
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into student values (1023,'YASH SAXENA','MALE',79,11,'C','Science','1998-03-13');  
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into student values (1024,'YESH DUBEY','MALE',85,12,'C','Commerce','1998-04-03');  
Query OK, 1 row affected (0.02 sec)
```

Activity 2:

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

```
mysql> select * from 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	AISHWARYA 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	2003-09-14
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	PARKHAR TIWARI	MALE	43	12	A	Science	1997-04-22
1012	RAGHAV GANGWAR	MALE	58	12	A	Commerce	1997-12-21
1013	SAHIL SARASWAT	MALE	57	12	A	Commerce	1997-08-13
1014	SWATI MISHRA	FEMALE	98	11	A	Science	1996-08-13
1015	HARSH AGARWAL	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.

```
mysql> select stdName,DOB from student;
```

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 |
| PARKHAR TIWARI   | 1997-04-22 |
| RAGHAV 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 |
| 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 record where percentage is greater of equal to 80 FROM student table.

```
mysql> select * from student where percentage >=80;
+-----+-----+-----+-----+-----+-----+-----+
| stdID | stdName          | sex | Percentage | SClass | Sec | Stream | DOB      |
+-----+-----+-----+-----+-----+-----+-----+
| 1014 | SWATI MISHRA     | FEMALE | 98 | 11 | A | Science | 1996-08-13 |
| 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 rows in set (0.00 sec)
```

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

```
mysql> select stdName,Stream,percentage from student where percentage>80;
+-----+-----+-----+
| stdName          | Stream | percentage |
+-----+-----+-----+
| SWATI MISHRA     | Science | 98 |
| HARSHIT KUMAR    | Science | 98 |
| SURYANSH KUMAR AGARWAL | Commerce | 85 |
| YESH DUBEY       | Commerce | 85 |
+-----+-----+-----+
4 rows in set (0.00 sec)
```

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

```
mysql> select * from 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	1996-08-13
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 student;
```

Field	Type	Null	Key	Default	Extra
stdID	int	NO	PRI	NULL	
stdName	varchar(30)	NO		NULL	
sex	varchar(6)	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 (0.02 sec)

2. To add a column (FIELD)in the STUDENT table,for example TeacherID as VARCHAR(20);

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

3. Type the statement

```
mysql> desc student;
```

Field	Type	Null	Key	Default	Extra
stdID	int	NO	PRI	NULL	
stdName	varchar(30)	NO		NULL	
sex	varchar(6)	YES		NULL	
Percentage	int	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

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

```
+-----+-----+-----+-----+-----+-----+-----+
| stdID | stdName          | sex | Percentage | SClass | Sec | Stream | DOB       | TeacherId |
+-----+-----+-----+-----+-----+-----+-----+
| 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 | AISHWARYA 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 | 2003-09-14 | 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 | PARKHAR TIWARI   | MALE | 43 | 12 | A | Science | 1997-04-22 | NULL |
| 1012 | RAGHAV GANGWAR   | MALE | 58 | 12 | A | Commerce | 1997-12-21 | NULL |
| 1013 | SAHIL SARASWAT   | MALE | 57 | 12 | A | Commerce | 1997-08-13 | NULL |
| 1014 | SWATI MISHRA     | FEMALE | 98 | 11 | A | Science | 1996-08-13 | NULL |
| 1015 | HARSH AGARWAL    | MALE | 58 | 11 | B | Science | 2003-08-28 | NULL |
| 1016 | HARSHIT KUMAR    | MALE | 98 | 11 | B | Science | 2003-05-22 | NULL |
| 1017 | JAHANVI 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.

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

```
mysql> desc student;
```

```
+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
```

```

+-----+-----+-----+-----+-----+
| stdID   | int    | NO | PRI | NULL |   |
| stdName | varchar(30) | NO |   | NULL |   |
| sex     | varchar(6) | YES |   | NULL |   |
| percentage | int    | 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)

```

Activity 4:

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

```

mysql> alter table student drop TeacherId;
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.

```

mysql> select stdName,percentage -5 from student;

```

```

+-----+-----+
| stdName          | percentage -5 |
+-----+-----+
| AKSHRA AGARWAL   | 65 |
| ANJANI SHARMA    | 70 |
| ANSHUL SAXENA    | 73 |
| AISHWARYA SINGH  | 74 |
| AKRITI SAXENA    | 71 |
| KHUSHI AGARWAL   | 72 |
| MAAHI AGARWAL    | 69 |
| MITALI GUPTA     | 73 |
| NIKUNJ AGARWAL   | 53 |
| PARKHI           | 54 |
| PARKHAR TIWARI   | 38 |
| RAGHAV GANGWAR   | 53 |
| SAHIL SARASWAT   | 52 |
| SWATI MISHRA     | 93 |
| HARSH AGARWAL    | 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 (0.02 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.

```
mysql> select stdName as "Student Name" , DOB as "Date of Birth" from student;
```

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
PARKHAR TIWARI	1997-04-22
RAGHAV 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
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 student where Stream <> 'Science';
```

stdName
ANJANI SHARMA
ANSHUL SAXENA
AISHWARYA SINGH


```
| AKRITI SAXENA      |
| KHUSHI AGARWAL    |
| PARKHI            |
| RAGHAV GANGWAR    |
| 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

```
mysql> select stdName,percentage from student where percentage >= 60 and percentage <= 80;
```

```
+-----+-----+
| stdName      | percentage |
+-----+-----+
| AKSHRA AGARWAL |      70 |
| ANJANI SHARMA  |      75 |
| ANSHUL SAXENA  |      78 |
| AISHWARYA 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 student name from SWATI MISHRA to SWATI VERMA whose StdId is 1014 and also change percentage 86.

```
mysql> update student set stdName = 'SWATI VERMA', percentage = 86 where stdId=1014;
```

Query OK, 1 row affected (0.02 sec)

Rows matched: 1 Changed: 1 Warnings: 0

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

```
mysql> delete from student where stdId=1016;
```

Query OK, 1 row affected (0.02 sec)

```
mysql> select * from 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	AISHWARYA 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	2003-09-14
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	PARKHAR TIWARI	MALE	43	12	A	Science	1997-04-22
1012	RAGHAV GANGWAR	MALE	58	12	A	Commerce	1997-12-21
1013	SAHIL SARASWAT	MALE	57	12	A	Commerce	1997-08-13
1014	SWATI VERMA	FEMALE	86	11	A	Science	1996-08-13
1015	HARSH AGARWAL	MALE	58	11	B	Science	2003-08-28
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

23 rows in set (0.00 sec)

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

```
mysql> select * from student where stdName like 'G_';
```

Empty set (0.00 sec)

```
mysql> select * from student where stdName='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='%G%';
```

Empty set (0.00 sec)

4. Display all the streams in student table.

```
mysql> select distinct Stream from student;
```

```
+-----+  
| Stream |  
+-----+  
| Science |  
| Commerce |  
+-----+
```

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

5. Note the output of the following statement.

```
mysql> select stdName,Sex,Stream from student where percentage between 70 and 80;
```

```
+-----+-----+-----+  
| stdName      | Sex  | Stream |  
+-----+-----+-----+  
| AKSHRA AGARWAL | FEMALE | Science |  
| 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 |  
+-----+-----+-----+
```

```
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.

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

Table Creation:

```
mysql> create table Empl (empno int(4), ename varchar(20), job varchar(20), mgr varchar(5), hiredate date, sal decimal(7,2), comm decimal(7,2), deptno int(2));
```

Query OK, 0 rows affected, 2 warnings (0.06 sec)

Inserting the Records:

```
mysql> insert into Empl(empno,ename,job,mgr,hiredate,sal,deptno) values(8369, "SMITH", "CLERK", 8902, "1990/12/18", 800.00, 20);
```

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

```
mysql> insert into Empl(empno,ename,job,mgr,hiredate,sal,comm,deptno) values(8499, "ANYA", "SALESMAN", 8698, "1991/02/20", 1600.00, 300.00, 30);
```

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

```
mysql> insert into Empl(empno,ename,job,mgr,hiredate,sal,comm,deptno) values(8521, "SETH", "SALESMAN", 8698, "1991/02/22", 1250.00, 500.00, 30);
```

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

```
mysql> insert into Empl(empno,ename,job,mgr,hiredate,sal,comm,deptno) values(8566, "MAHADEVAN", "MANAGER", 8839, "1991/04/02", 2985.00, NULL, 20);
```

Query OK, 1 row affected, 1 warning (0.01 sec)

```
mysql> insert into Empl(empno,ename,job,mgr,hiredate,sal,comm,deptno) values(8654, "MOMIN",  
"SALESMAN", 8698, "1991/09/28", 1250.00, 1400.00, 30);
```

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

```
mysql> insert into Empl(empno,ename,job,mgr,hiredate,sal,comm,deptno) values(8698,"BINA",  
"MANAGER", 8839, "1991/05/01", 2850.00, NULL, 30);
```

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

```
mysql> insert into Empl(empno,ename,job,mgr,hiredate,sal,comm,deptno) values(8882,"SHIVANSH",  
"MANAGER", 8839, "1991/06/09", 2450.00, NULL, 10);
```

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

```
mysql> insert into Empl(empno,ename,job,mgr,hiredate,sal,comm,deptno) values(8888,"SCOTT",  
"ANALYST", 8566, "1992/12/09", 3000.00, NULL, 20);
```

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

```
mysql> insert into Empl(empno,ename,job,mgr,hiredate,sal,comm,deptno) values(8839,"AMIR",  
"PRESIDENT", NULL, "1991/11/18", 5000.00, NULL, 10);
```

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

```
mysql> insert into Empl(empno,ename,job,mgr,hiredate,sal,comm,deptno)  
values(8844,"KULDEEP","SALESMAN", 8698, "1991/09/08", 1500.00, 0.00, 30);
```

Query OK, 1 row affected, 1 warning (0.00 sec)

```
mysql> SELECT * FROM Empl;
```

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)

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

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

```
mysql> select * from Empl where sal >= 2200;
+-----+-----+-----+-----+-----+-----+-----+
| empo | 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 |
| 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 |
+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.02 sec)
```

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

```
mysql> select ename from Empl where comm is null;
+-----+
| ename |
+-----+
| SMITH |
| MAHADEVAN |
| BINA |
| SHIVANSH |
| SCOTT |
| AMIR |
+-----+
6 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 ename, sal from Empl where sal not between 2500 and 4000;
+-----+-----+
| ename | sal |
+-----+-----+
| SMITH | 800.00 |
| ANYA | 1600.00 |
| SETH | 1250.00 |
| MOMIN | 1250.00 |
| SHIVANSH | 2450.00 |
| AMIR | 5000.00 |
| KULDEEP | 1500.00 |
+-----+-----+
```

7 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 Empl where job != "MANAGER";
```

ename	job	sal
SMITH	CLERK	800.00
ANYA	SALESMAN	1600.00
SETH	SALESMAN	1250.00
MOMIN	SALESMAN	1250.00
SCOTT	ANALYST	3000.00
AMIR	PRESIDENT	5000.00
KULDEEP	SALESMAN	1500.00

7 rows in set (0.00 sec)

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

```
mysql> select ename from Empl 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 Empl 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 Empl where ename like "M_%L";
```

Empty set (0.00 sec)

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

```
mysql> select *, "Not given" from Empl where comm is null;
```

empno	ename	job	mgr	hiredate	sal	comm	deptno	Not given
8369	SMITH	CLERK	8902	1990-12-18	800.00	NULL	20	Not given
8566	MAHADEVAN	MANAGER	8839	1990-04-02	2985.00	NULL	20	Not given
8698	BINA	MANAGER	8839	1991-05-01	2850.00	NULL	30	Not given
8882	SHIVANSH	MANAGER	8839	1991-06-09	2450.00	NULL	10	Not given

8888	SCOTT	ANALYST	8566	1992-12-09	3000.00	NULL	20	Not given
8839	AMIR	PRESIDENT	NULL	1991-11-18	5000.00	NULL	10	Not given

+-----+-----+-----+-----+-----+-----+-----+-----+

6 rows in set (0.00 sec)