SQL PRACTICAL ASSIGNMENT - 4

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)

```
mysgl> 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)
mysgl> 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>
mysgl> 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.

```
mysgl> select * from student;
                      | sex | Percentage | SClass | Sec | Stream | DOB
| stdID | stdName
                  -----+------+-----+-----+-----+
+----+-----
                            | FEMALE |
                                           70 | 11 | A | Science | 1996-11-10 |
| 1001 | AKSHRA AGARWAL
                           | FEMALE |
                                          75 | 11 | A | Commerce | 1996-09-18 |
| 1002 | ANJANI SHARMA
| 1003 | ANSHUL SAXENA
                            | MALE |
                                         78 | 11 | A | Commerce | 1996-11-19 |
                                           79 | 11 | A | Commerce | 1996-11-01 |
| 1004 | AISHWARYA SINGH
                            | FEMALE |
| 1005 | AKRITI SAXENA
                          | FEMALE |
                                         76 | 11 | A | Commerce | 1996-09-20 |
                                           77 | 11 | A | Commerce | 2003-09-14 |
                            | FEMALE |
| 1006 | KHUSHI AGARWAL
| 1007 | MAAHI AGARWAL
                            | FEMALE |
                                          74 | 11 | A | Science | 1997-04-21 |
                                        78 | 12 | A | Science | 1997-11-26 |
| 1008 | MITALI GUPTA
                          | FEMALE |
| 1009 | NIKUNJ AGARWAL
                            | MALE |
                                         58 | 12 | A | Science | 1997-07-12 |
                                     59 | 12 | A | Commerce | 1997-12-20 |
| 1010 | PARKHI
                       | FEMALE |
| 1011 | PARKHAR TIWARI
                           | MALE |
                                         43 | 12 | A | Science | 1997-04-22 |
                                           58 | 12 | A | Commerce | 1997-12-21 |
| 1012 | RAGHAV GANGWAR
                              | MALE |
| 1013 | SAHIL SARASWAT
                            |MALE |
                                         57 | 12 | A | Commerce | 1997-08-13 |
                                         98 | 11 | A | Science | 1996-08-13 |
| 1014 | SWATI MISHRA
                          | FEMALE |
| 1015 | HARSH AGARWAL
                            | MALE |
                                          58 | 11 | B | Science | 2003-08-28 |
                                         98 | 11 | B | Science | 2003-05-22 |
| 1016 | HARSHIT KUMAR
                            | MALE |
                                         65 | 11 | B | Science | 1997-01-10 |
| 1017 | JAHANVI KAPOOR
                            | MALE |
                                       66 | 11 | C | Commerce | 1996-01-10 |
| 1018 | STUTI MISHRA
                          | MALE |
| 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 |
                             | MALE |
                                          57 | 11 | C | Commerce | 1998-06-28 |
| 1022 | TANMAY AGARWAL
                                       79 | 11 | C | Science | 1998-03-13 |
| 1023 | YASH SAXENA
                          | MALE |
                                       85 | 12 | C | Commerce | 1998-04-03 |
| 1024 | YESH DUBEY
                          |MALE |
+-----+
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; +-----+

```
l stdName
                 | DOB
| AKSHRA AGARWAL
                        | 1996-11-10 |
                      | 1996-09-18 |
| ANJANI SHARMA
| ANSHUL SAXENA
                       | 1996-11-19 |
| AISHWARYA SINGH
                       | 1996-11-01 |
                     | 1996-09-20 |
| AKRITI SAXENA
                       | 2003-09-14 |
| KHUSHI AGARWAL
I 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 |
                   | 1997-08-13 |
| SAHIL SARASWAT
| SWATI MISHRA
                   | 1996-08-13 |
                    | 2003-08-28 |
| HARSH AGARWAL
                     | 2003-05-22 |
| HARSHIT KUMAR
| JAHANVI KAPOOR
                    | 1997-01-10 |
                   | 1996-01-10 |
| STUTI MISHRA
| SURYANSH KUMAR AGARWAL | 2007-08-22 |
                  | 1998-01-15 |
| TANI RASTOGI
                    | 1998-04-11 |
| TANISHK GUPTA
| TANMAY AGARWAL
                      | 1998-06-28 |
I YASH SAXENA
                   | 1998-03-13 |
| YESH DUBEY
                   | 1998-04-03 |
+----+
24 rows in set (0.00 sec)
```

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

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

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

Activity 3:

1. To display the STUDENT table structure.

```
mysql> desc student;
+----+
     | Type
            | Null | Key | Default | Extra |
+----+
            |NO |PRI|NULL |
stdID | int
stdName | varchar(30) | NO | NULL |
      | varchar(6) | YES | NULL |
sex
| Percentage | int
             |YES | |NULL | |
            |YES | |NULL | |
| SClass | int
      |varchar(1) | YES | NULL | |
| Stream | varchar(10) | YES | NULL |
I DOB
      |date |YES | NULL | |
+----+
8 rows in set (0.02 sec)
```

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

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

3. Type the statement

```
mysql> desc student;
+----+
     | Type | Null | Key | Default | Extra |
+----+
stdID | int
           |NO |PRI|NULL |
stdName | varchar(30) | NO | NULL |
      |varchar(6) | YES | | NULL |
| Percentage | int
             |YES | |NULL |
| SClass | int
             |YES | |NULL | |
I 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

```
mysgl> select * from student;
                         | sex | Percentage | SClass | Sec | Stream | DOB
| stdID | stdName
                                                                    | Teacherld |
70 | 11 | A | Science | 1996-11-10 | NULL
| 1001 | AKSHRA AGARWAL
                           | FEMALE |
                                        75 | 11 | A | Commerce | 1996-09-18 | NULL
| 1002 | ANJANI SHARMA
                          | FEMALE |
                                       78 | 11 | A | Commerce | 1996-11-19 | NULL
| 1003 | ANSHUL SAXENA
                           | MALE |
                                         79 | 11 | A | Commerce | 1996-11-01 | NULL
| 1004 | AISHWARYA SINGH
                           | FEMALE |
                                       76 | 11 | A | Commerce | 1996-09-20 | NULL
| 1005 | AKRITI SAXENA
                         | FEMALE |
                                         77 | 11 | A | Commerce | 2003-09-14 | NULL
| 1006 | KHUSHI AGARWAL
                           | FEMALE |
                                         74 | 11 | A | Science | 1997-04-21 | NULL
| 1007 | MAAHI AGARWAL
                           | FEMALE |
| 1008 | MITALI GUPTA
                         | FEMALE |
                                      78 | 12 | A | Science | 1997-11-26 | NULL
                                        58 | 12 | A | Science | 1997-07-12 | NULL
| 1009 | NIKUNJ AGARWAL
                           | MALE |
| 1010 | PARKHI
                      | FEMALE |
                                    59 | 12 | A | Commerce | 1997-12-20 | NULL
                                       43 | 12 | A | Science | 1997-04-22 | NULL
| 1011 | PARKHAR TIWARI
                           | MALE |
                                         58 | 12 | A | Commerce | 1997-12-21 | NULL
| 1012 | RAGHAV GANGWAR
                            | MALE |
                                       57 | 12 | A | Commerce | 1997-08-13 | NULL
| 1013 | SAHIL SARASWAT
                           | MALE |
                                       98 | 11 | A | Science | 1996-08-13 | NULL
| 1014 | SWATI MISHRA
                         | FEMALE |
| 1015 | HARSH AGARWAL
                           | MALE |
                                        58 | 11 | B | Science | 2003-08-28 | NULL
                                       98 | 11 | B | Science | 2003-05-22 | NULL
| 1016 | HARSHIT KUMAR
                           |MALE |
                                        65 | 11 | B | Science | 1997-01-10 | NULL
| 1017 | JAHANVI KAPOOR
                           | MALE |
                                      66 | 11 | C | Commerce | 1996-01-10 | NULL
| 1018 | STUTI MISHRA
                         | MALE |
| 1019 | SURYANSH KUMAR AGARWAL | MALE |
                                              85 | 11 | C | Commerce | 2007-08-22 |
NULL
                                            12 | C | Commerce | 1998-01-15 | NULL
| 1020 | TANI RASTOGI
                         | FEMALE |
                                       75 |
                                           12 | C | Science | 1998-04-11 | NULL
| 1021 | TANISHK GUPTA
                          | MALE |
                                         57 | 11 | C | Commerce | 1998-06-28 | NULL
| 1022 | TANMAY AGARWAL
                            | MALE |
| 1023 | YASH SAXENA
                         |MALE |
                                      79 | 11 | C | Science | 1998-03-13 | NULL
                                      85 | 12 | C | Commerce | 1998-04-03 | NULL
| 1024 | YESH DUBEY
                         | MALE |
                        ----+-----+----+-----+
24 rows in set (0.00 sec)
```

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

```
mysql> alter table student modify Teacherld 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 |
       | varchar(6) | YES | NULL |
| percentage | int
                 |YES | |NULL |
        | int
| SClass
                |YES | |NULL |
        |varchar(1) | YES | NULL |
| Sec
       |varchar(10)|YES| |NULL |
| Stream
                 |YES | |NULL |
I DOB
        | date
| 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 the TeacherID field.

```
mysql> alter table student drop Teacherld;
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 I
                          73 |
| MITALI GUPTA
                   | 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
                   1
                          70 |
| TANISHK GUPTA
                     50 |
| TANMAY AGARWAL
                              52 |
```

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 |
                     | 1996-09-18 |
| ANJANI SHARMA
| ANSHUL SAXENA
                     | 1996-11-19 |
| AISHWARYA SINGH
                    | 1996-11-01 |
| AKRITI SAXENA
                   | 1996-09-20 |
                     | 2003-09-14 |
| KHUSHI AGARWAL
| MAAHI AGARWAL
                     | 1997-04-21 |
| MITALI GUPTA
                   | 1997-11-26 |
| NIKUNJ AGARWAL
                     | 1997-07-12 |
                | 1997-12-20 |
| PARKHI
| 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 |
                   | 1998-01-15 |
| TANI RASTOGI
| TANISHK GUPTA
                    | 1998-04-11 |
| TANMAY AGARWAL
                      | 1998-06-28 |
I YASH SAXENA
                   | 1998-03-13 |
I 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';

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

mysgl> 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 | 78 | | MITALI GUPTA | | JAHANVI KAPOOR | 65 | | STUTI MISHRA | 66 | |TANIRASTOGI | 75 | | YASH SAXENA | 79 I +----+

Activity 5:

12 rows in set (0.00 sec)

1. TochangeastudentnamefromSWATIMISHRAtoSWATIVERMAwhoseStdIDis1014andalsochange 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 the student table where Stdld is 1016.

```
| sex | Percentage | SClass | Sec | Stream | DOB
| stdID | stdName
| 1001 | AKSHRA AGARWAL
                            | FEMALE |
                                          70 | 11 | A | Science | 1996-11-10 |
                                         75 | 11 | A | Commerce | 1996-09-18 |
| 1002 | ANJANI SHARMA
                          | FEMALE |
| 1003 | ANSHUL SAXENA
                           |MALE |
                                        78 | 11 | A | Commerce | 1996-11-19 |
                                          79 | 11 | A | Commerce | 1996-11-01 |
| 1004 | AISHWARYA SINGH
                           | FEMALE |
                                        76 | 11 | A | Commerce | 1996-09-20 |
| 1005 | AKRITI SAXENA
                         | FEMALE |
                                          77 | 11 | A | Commerce | 2003-09-14 |
| 1006 | KHUSHI AGARWAL
                            | FEMALE |
                                         74 | 11 | A | Science | 1997-04-21 |
| 1007 | MAAHI AGARWAL
                           | FEMALE |
                                       78 | 12 | A | Science | 1997-11-26 |
| 1008 | MITALI GUPTA
                         | FEMALE |
                                        58 | 12 | A | Science | 1997-07-12 |
| 1009 | NIKUNJ AGARWAL
                           | MALE |
                      | FEMALE |
| 1010 | PARKHI
                                    59 | 12 | A | Commerce | 1997-12-20 |
                                       43 | 12 | A | Science | 1997-04-22 |
| 1011 | PARKHAR TIWARI
                           | MALE |
| 1012 | RAGHAV GANGWAR
                             | MALE |
                                          58 | 12 | A | Commerce | 1997-12-21 |
                                        57 | 12 | A | Commerce | 1997-08-13 |
| 1013 | SAHIL SARASWAT
                           | MALE |
| 1014 | SWATI VERMA
                         | FEMALE |
                                       86 | 11 | A | Science | 1996-08-13 |
                                        58 | 11 | B | Science | 2003-08-28 |
| 1015 | HARSH AGARWAL
                            | MALE |
| 1017 | JAHANVI KAPOOR
                           | MALE |
                                        65 | 11 | B | Science | 1997-01-10 |
                                      66 | 11 | C | Commerce | 1996-01-10 |
| 1018 | STUTI MISHRA
                         | MALE |
| 1019 | SURYANSH KUMAR AGARWAL | MALE |
                                               85 | 11 | C | Commerce | 2007-08-22 |
                         | FEMALE |
                                       75 |
                                            12 | C | Commerce | 1998-01-15 |
| 1020 | TANI RASTOGI
| 1021 | TANISHK GUPTA
                          | MALE |
                                       55 | 12 | C | Science | 1998-04-11 |
                                         57 | 11 | C | Commerce | 1998-06-28 |
                            | MALE |
| 1022 | TANMAY AGARWAL
                                      79 | 11 | C | Science | 1998-03-13 |
| 1023 | YASH SAXENA
                         | MALE |
                                      85 | 12 | C | Commerce | 1998-04-03 |
| 1024 | YESH DUBEY
                         |MALE |
+-----+
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 the student table.

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

5. Note the output of the following statement.

```
mysql> select stdName,Sex,Stream from student where percentage between 70 and 80;
+----+
          |Sex |Stream |
| stdName
+----+
| 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 (empo 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(empo,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(empo,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(empo,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(empo,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(empo,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(empo,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)
mysgl> insert into Empl(empo,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(empo,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(empo,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(empo,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;
+----+
| empo | 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 |
               | SALESMAN | 8698 | 1991-02-22 | 1250.00 | 500.00 | 30 |
| 8521 | SETH
| 8566 | MAHADEVAN | MANAGER | 8839 | 1991-04-02 | 2985.00 | NULL | |
| 8654 | MOMIN | SALESMAN | 8698 | 1991-09-28 | 1250.00 | 1400.00 | 30 |
              | MANAGER | 8839 | 1991-05-01 | 2850.00 | NULL | 30 |
| 8698 | BINA
| 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?

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

mysql> select ename from Empl where comm is null;

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?

mysgl> 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 |
```

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?

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?

| 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)