### SQL PRACTICAL FILE

1) Create Database Named Class 11

```
mysql> create database class11;
Query OK, 1 row affected (0.00 sec)
```

2)Open Database Class 11

```
mysql> use class11;
Database changed
```

3)Create a student table with the student id, class, section, gender, name, dob, and marks as attributes where the student id is the primary key

```
mysql> create table student (studentid int(4) primary key, class char(2),
    -> section char(1),
    -> gender char(1),
    -> name varchar(20),
    -> dob date,
    -> marks decimal(5,2));
Query OK, 0 rows affected, 1 warning (0.01 sec)
```

#### 4) View the structure of the table

Field	Type	Null	Key	Default	Extra
studentid	int	NO	PRI	NULL	
class	char(2)	YES	*	NULL	8
section	char(1)	YES		NULL	
gender	char(1)	YES		NULL	
name	varchar(20)	YES		NULL	
dob	date	YES		NULL	
marks	decimal(5,2)	YES		NULL	

#### 5)Insert the details of at least 10 students in the above table

```
mysql> insert into student values
-> (1101,'XI','A','M','Aksh','2005/12/23',88.21),
-> (1102,'XI','B','F','Moksha','2005/03/24',77.90),
-> (1103,'XI','A','F','Archi','2006/04/21',76.20),
-> (1104,'XI','B','M','Bhavin','2005/09/15',68.23),
-> (1105,'XI','C','M','Kevin','2005/08/23',66.33),
-> (1106,'XI','C','F','Naadiya','2005/10/27',62.33),
-> (1107,'XI','D','M','Krish','2005/01/23',84.33),
-> (1108,'XI','D','M','Ayush','2005/04/23',55.33),
-> (1109,'XI','C','F','Shruti','2005/06/01',74.33),
-> (1110,'XI','D','F','Shivi','2005/10/19',72.30);
```

#### 6)Display the details of the student table

studentid	class	section	gender	name	dob	marks
1101	XI	A	M	Aksh	2005-12-23	88.21
1102	XI	B	į F	Moksha	2005-03-24	77.90
1103	XI	A	į F	Archi	2006-04-21	76.20
1104	XI	В	j M	Bhavin	2005-09-15	68.23
1105	XI	C	M	Kevin	2005-08-23	66.33
1106	XI	j C	į F	Naadiya	2005-10-27	62.33
1107	XI	D	j M	Krish	2005-01-23	84.33
1108	XI	D	M	Ayush	2005-04-23	55.33
1109	XI	j C	į F	Shruti	2005-06-01	74.33
1110	XI	j D	F	Shivi	2005-10-19	72.30

#### 7)Delete record of students who secured less than 65 marks

```
mysql> delete from student where marks <65;
Query OK, 2 rows affected (0.00 sec)
mysal> select * from student:
  studentid
             class
                     section
                                                dob
                                                             marks
      1101
             XI
                                        Aksh
                                                 2005-12-23
                                                             88.21
                                        Moksha
      1102
             XI
                                                 2005-03-24
                                                             77.90
             XI
                                        Archi
                                                             76.20
                                                 2006-04-21
      1104
             XI
                                        Bhavin
                                                 2005-09-15
                                                             68.23
             XI
                                                 2005-08-23
                                                             66.33
             XI
                                                             84.33
                                        Krish
                                                 2005-01-23
      1109
             XI
                                                 2005-06-01
                                                             74.33
             XI
      1110
                                        Shivi
                                                 2005-10-19
                                                             72.30
```

#### 8)Increase marks by 5% for who have student id more than 1105

studentid	class	section	gender	name	dob	marks
1101	XI	A	М	Aksh	2005-12-23	88.21
1102	XI	В	F	Moksha	2005-03-24	77.90
1103	XI	A	F	Archi	2006-04-21	76.20
1104	XI	В	M	Bhavin	2005-09-15	68.23
1105	XI	C	M	Kevin	2005-08-23	66.33
1107	XI	D	M	Krish	2005-01-23	88.55
1109	XI	C	F	Shruti	2005-06-01	78.05
1110	XI	D	F	Shivi	2005-10-19	75.92

#### 9)Display the content of the table of female students

```
[mysql> select * from student where gender = 'f';

| studentid | class | section | gender | name | dob | marks |

| 1102 | XI | B | F | Moksha | 2005-03-24 | 77.90 |

| 1103 | XI | A | F | Archi | 2006-04-21 | 76.20 |

| 1109 | XI | C | F | Shruti | 2005-06-01 | 78.05 |

| 1110 | XI | D | F | Shivi | 2005-10-19 | 75.92 |

4 rows in set (0.00 sec)
```

## 10)Display studentid, Name and Marks whose marks are more than 50

```
mysql> select studentid, name, marks from student where marks>50;
  studentid
              name
                       marks
       1101
              Aksh
              Moksha
       1102
             Archi
       1103
             Bhavin
            | Kevin
                      66.33
       1105
       1107
             Krish
       1109
              Shruti
                      78.05
 rows in set (0.00 sec)
```

#### 11)Find the average of marks from the student table

#### 12) Find the number of students, who are from section 'A'

```
[mysql> select count(section) from student where section='A';
+-----+
| count(section) |
+-----+
| 2 |
+-----+
1 row in set (0.00 sec)
```

#### 13)Add a new column email in the above table

```
[mysql> alter table student add column email varchar(20);
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

### 14)Add the email ids of each student in the created email column

```
[mysql> update student set email='a@a.com';
Query OK, 8 rows affected (0.00 sec)
Rows matched: 8 Changed: 8 Warnings: 0
```

### 15)Display the information of all the students, name contains 'sh'

studentid	class	section	gender	name	dob	marks	email
1101	XI	A	М	Aksh	2005-12-23	88.21	a@a.com
1102	XI	В	F	Moksha	2005-03-24	77.90	a@a.com
1107	XI	j D	M	Krish	2005-01-23	88.55	a@a.com
1109	XI	i c	F	Shruti	2005-06-01	78.05	a@a.com
1110	i XI	j D	F	Shivi	2005-10-19	75.92	a@a.com

### 16)Display the information of all the students, name starts with 'sh'

```
mysql> select * from student where name like 'Sh%';

| studentid | class | section | gender | name | dob | marks | email |

| 1109 | XI | C | F | Shruti | 2005-06-01 | 78.05 | a@a.com |

| 1110 | XI | D | F | Shivi | 2005-10-19 | 75.92 | a@a.com |

2 rows in set (0.00 sec)
```

#### 17)Display studentid, Name, DOB of who are born in 2005

```
mysql> select studentid, name, dob from student where dob between
    '> 01' and '2005-12-31';
 studentid | name
                       dob
                       2005-12-23
             Aksh
             Moksha
                       2005-03-24
             Bhavin
                       2005-09-15
                       2005-08-23
             Krish
                       2005-01-23
             Shruti
                      2005-06-01
                       2005-10-19
 rows in set. 8 warnings (0.01 sec)
```

18) Display studentid, Name, DOB, Marks, Email of male students in ascending order of their names

```
mysql> select studentid, name, dob from student order by name;
  studentid
                        dob
             l name
                        2005-12-23
       1101
             l Aksh
              Archi
       1103
                        2006-04-21
       1104
              Bhavin
                        2005-09-15
             Kevin
                        2005-08-23
       1105
       1107
              Krish
                        2005-01-23
       1102
              Moksha
                        2005-03-24
              Shivi
                        2005-10-19
       1110
              Shruti
                        2005-06-01
  rows in set (0.00 sec)
```

# 19)Display stduentid, Gender, Name, DOB, Marks, Email in descending order of their marks

tudentid	gender	name	dob	marks	email
1107	М	Krish	2005-01-23	88.55	a@a.com
1101	M	Aksh	2005-12-23	88.21	a@a.com
1109	F	Shruti	2005-06-01	78.05	a@a.com
1102	F	Moksha	2005-03-24	77.90	a@a.com
1103	F	Archi	2006-04-21	76.20	a@a.com
1110	F	Shivi	2005-10-19	75.92	a@a.com
1104	М	Bhavin	2005-09-15	68.23	a@a.com
1105	М	Kevin	2005-08-23	66.33	a@a.com

### 20)Display the unique section available in the table