To open the database:

mysql> use <your name>;

Q3. Create the following tables by identifying primary and foreign keys, specify the not null property for mandatory keys.

DEPARTMENT_DETAILS

Deptno	Deptname	Totemp	Charge/hr	Bonus
D0001	Computer	5	250	2
D0002	Maths	6	300	4
D0003	Chemistry	5	200	3
D0004	Physics	4	225	1

EMPLOYEE_DETAILS

Empname	Deptno	Total hours
Ramu	D0002	8
Bimu	D0001	6
Ramanath	D0003	4
Somu	D0002	7
Diren	D0004	5

To create dept_det table:

```
mysql> create table dept_det
-> (deptno varchar(5) primary key,
-> dname varchar(20) not null,
-> totemp int(2),
-> charge int(4),
-> bonus int(2));

mysql> insert into dept_det(deptno,dname,totemp,charge,bonus)
-> values('D0001','Computer',5,250,2);
```

Similarly insert 03 records.

To create emp_det table:

```
mysql> create table emp_det
-> (ename varchar(20) not null,
-> deptno varchar(5),
-> hours int(2),
-> foreign key(deptno) references dept_det(deptno));

mysql> insert into emp_det(ename,deptno,hours)
-> values('Ramu','D0002',8);
```

Similarly insert 04 records.

Write the following SQL queries:

a) Display all employee names whose name length is 4 characters.

```
mysql>select e.ename from emp_det e where length(e.ename) = 4;
```

b) Display the department name to which Mr. Ramanath belongs to.

```
mysql> select d.dname from dept_det d,emp_det e where e.deptno=d.deptno
-> and e.ename='Ramanath';
```

c) Display the bonus got by Mr. Ramu.

```
mysql> select (d.charge*e.hours*d.bonus)/100 'Ramu Bonus' from dept_det
-> d,emp_det e where e.deptno=d.deptno and e.ename='Ramu';
```

d) Display the total number of hours taken by Maths Department.

```
mysql> select sum(e.hours) 'Hours by Maths' from dept_det d,emp_det e where
-> e.deptno=d.deptno and d.dname='Maths';
```

e) Display different departments.

```
mysql> select distinct(dname) from dept_det;
```