## To open the database:

**mysql> use <your name>;**

**Q2. Create the following tables by identifying primary and foreign keys, specify the not null property for mandatory keys.**

| PRODUCT_DETAIL | | | | |
|---|---|---|---|---|
| **PRODNO** | **PNAME** | **QTY_AVAIL** | **PRICE** | **PROFIT IN %** |
| P0001 | Monitor | 10 | 1500 | 20 |
| P0002 | Pen Drive | 50 | 250 | 5 |
| P0003 | CD Drive | 5 | 950 | 8 |
| P0004 | Keyboard | 8 | 250 | 10 |

| PURCHASED_DETAIL | | |
|---|---|---|
| **CNAME** | **PRODNO** | **QTY_SOLD** |
| Raman | P0003 | 2 |
| Laxman | P0002 | 5 |
| Bharath | P0002 | 10 |
| Manish | P0001 | 3 |
| Amith | P0004 | 2 |

## To create prd_det table:

mysql> create table prd_det
-> (prodno varchar(5) primary key,
-> pname varchar(15) not null,
-> qty int(2) not null,
-> price int(5) not null,
-> profit int(3));

mysql> insert into prd_det(prodno,pname,qty,price,profit)
-> values('P0001','Monitor',10,1500,20);

## Similarly insert 03 records.

mysql> select * from prd_det;

## To create pur_det table:

mysql> create table pur_det
-> (cname varchar(15) not null,
-> prodno varchar(5),
-> sold int(2),
-> foreign key(prodno) references prd_det(prodno));

mysql> insert into pur_det(cname,prodno,sold)
-> values('Raman','P0003',2);

## Similarly insert 04 records.

mysql> select * from pur_det;

## Execute the following queries:

a) **Display the total amount spent by Mr. Laxman for purchasing any product.**
    mysql> select (a.price*b.sold) "Laxmans Expenses" from prd_det a,pur_det b where
    -> a.prodno=b.prodno and b.cname='Laxman';

b) **Display the names of product for which either quantity available is less than 10 or quantity sold is less than 4.**
    mysql> select a.pname from prd_det a,pur_det b where a.prodno=b.prodno and
    -> (a.qty<10 or b.sold<4);

c) **Display the names of product and quantity taken by Mr. Bharath.**
    mysql> select a.pname,b.sold from prd_det a,pur_det b where a.prodno=b.prodno and
    -> b.cname='Bharath';

d) **What is the Profit earned by the shopkeeper on Manish's purchase?**
    mysql> select a.price*b.sold*a.profit/100 'Profit on Manish' from
    -> prd_det a,pur_det b where a.prodno=b.prodno and b.cname='Manish';

e) **How many pendrives were sold?**
    mysql> select sum(b.sold) "PenDrive Sold" from prd_det a,pur_det b where
    -> a.prodno=b.prodno and a.pname='Pen Drive';