DATABASE MANAGEMENT SYSTEM

LAB ASSIGNMENT-2

DATABASE USED: MYSQL

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CLASS: B.TECH(COMP. ENGG.)

ROLL NO-: 11CSS35

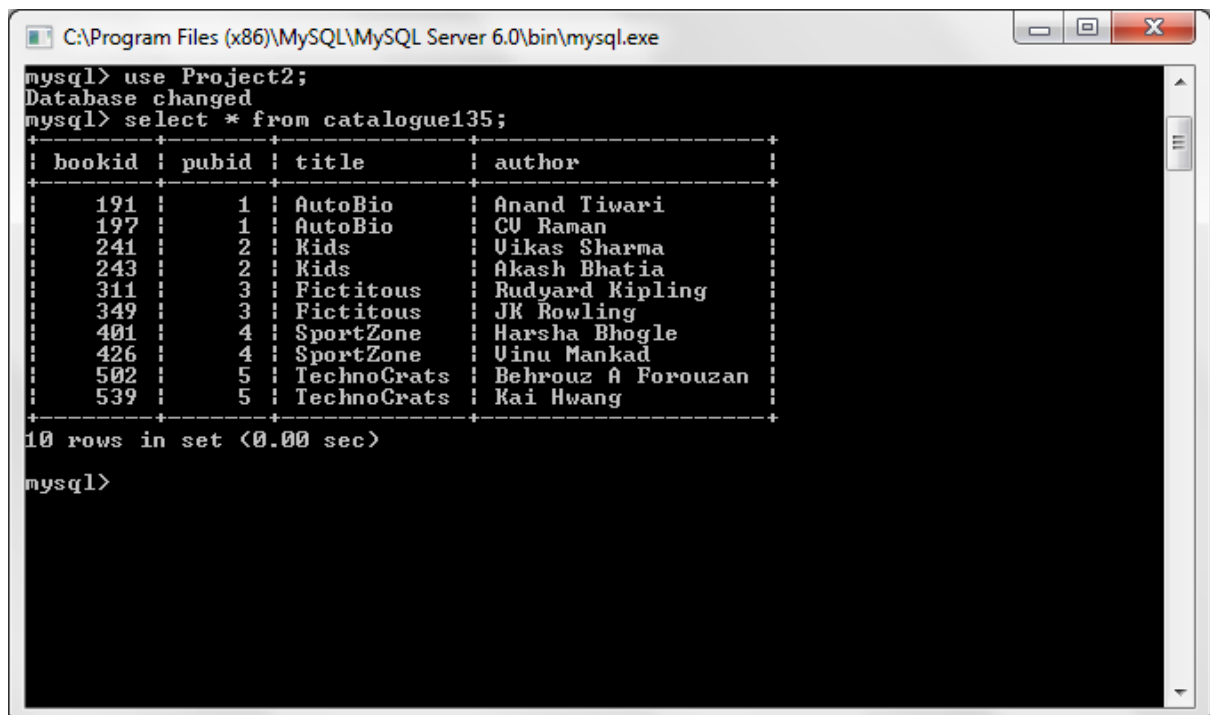# TABLE 1: CATALOGUE135

create table catalogue135

(bookid int primary key,

pubid int,

title varchar(20),

author varchar(20)

);

```
C:\Program Files (x86)\MySQL\MySQL Server 6.0\bin\mysql.exe

mysql> use Project2;
Database changed
mysql> select * from catalogue135;
+--------+-------+------------+-------------------+
| bookid | pubid | title      | author            |
+--------+-------+------------+-------------------+
|    191 |     1 | AutoBio    | Anand Tiwari      |
|    197 |     1 | AutoBio    | CV Raman          |
|    241 |     2 | Kids       | Vikas Sharma      |
|    243 |     2 | Kids       | Akash Bhatia      |
|    311 |     3 | Fictitous  | Rudyard Kipling   |
|    349 |     3 | Fictitous  | JK Rowling        |
|    401 |     4 | SportZone  | Harsha Bhogle     |
|    426 |     4 | SportZone  | Vinu Mankad       |
|    502 |     5 | TechnoCrats| Behrouz A Forouzan|
|    539 |     5 | TechnoCrats| Kai Hwang         |
+--------+-------+------------+-------------------+
10 rows in set (0.00 sec)

mysql>
```

TABLE 2: ORDER135;

create table order135

(bookid int primary key,
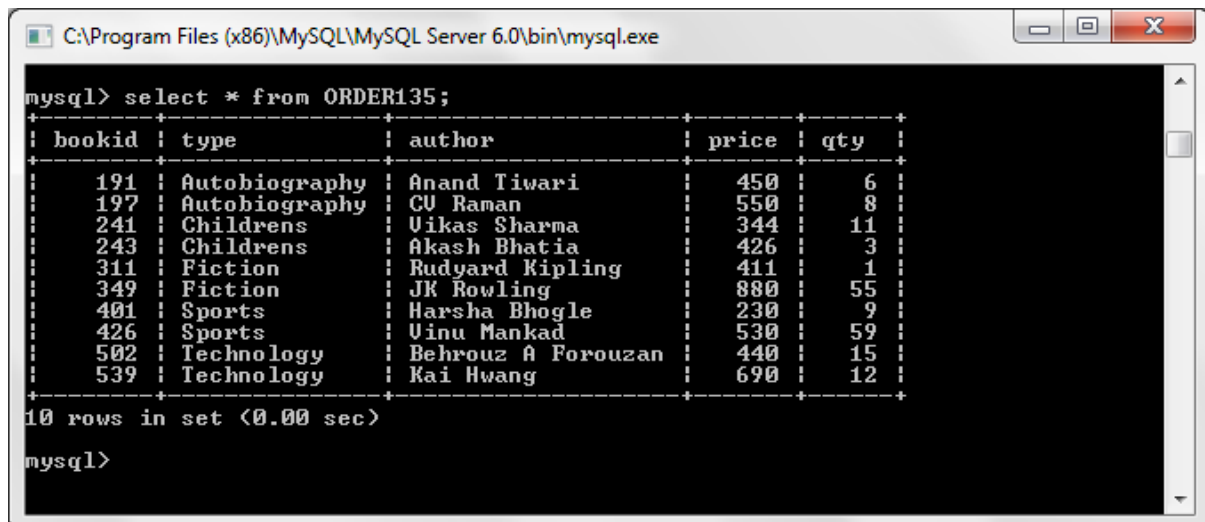
type varchar(20),

author varchar(20),

price int,

qty int

);


```
C:\Program Files (x86)\MySQL\MySQL Server 6.0\bin\mysql.exe

mysql> select * from ORDER135;
+--------+---------------+------------------+-------+-----+
| bookid | type          | author           | price | qty |
+--------+---------------+------------------+-------+-----+
|    191 | Autobiography | Anand Tiwari     |   450 |   6 |
|    197 | Autobiography | CU Raman         |   550 |   8 |
|    241 | Childrens     | Vikas Sharma     |   344 |  11 |
|    243 | Childrens     | Akash Bhatia     |   426 |   3 |
|    311 | Fiction       | Rudyard Kipling  |   411 |   1 |
|    349 | Fiction       | JK Rowling       |   880 |  55 |
|    401 | Sports        | Harsha Bhogle    |   230 |   9 |
|    426 | Sports        | Vinu Mankad      |   530 |  59 |
|    502 | Technology    | Behrouz A Forouzan |  440 |  15 |
|    539 | Technology    | Kai Hwang        |   690 |  12 |
+--------+---------------+------------------+-------+-----+
10 rows in set (0.00 sec)

mysql>
```

TABLE 3: PUBLISHER135

create table publisher135
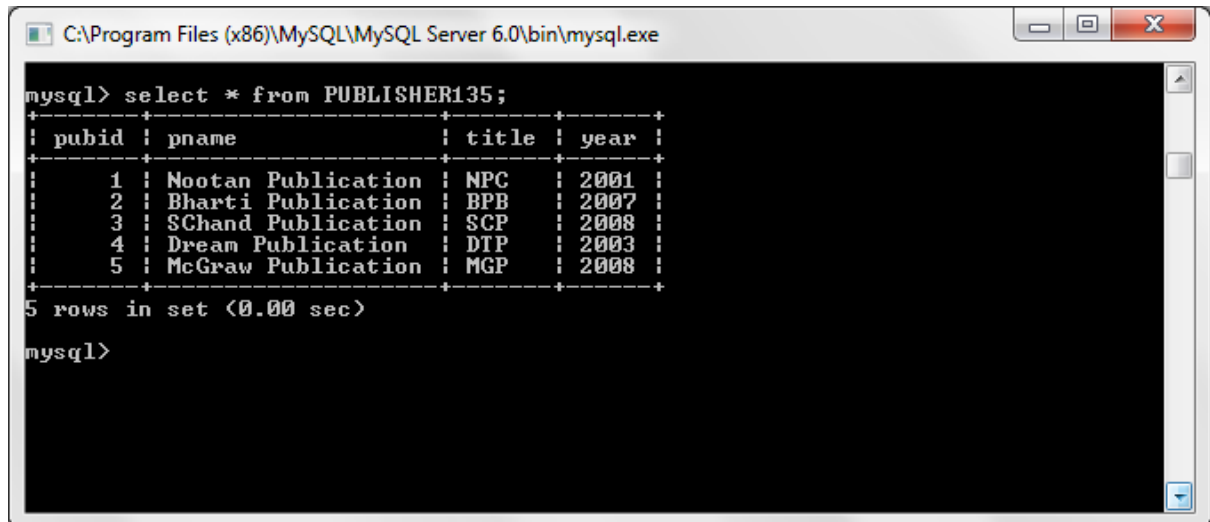
(pubid int primary key,

pname varchar(20),

title varchar(20),

year int

);

```
C:\Program Files (x86)\MySQL\MySQL Server 6.0\bin\mysql.exe

mysql> select * from PUBLISHER135;
+-------+--------------------+-------+------+
| pubid | pname              | title | year |
+-------+--------------------+-------+------+
|     1 | Nootan Publication | NPC   | 2001 |
|     2 | Bharti Publication | BPB   | 2007 |
|     3 | SChand Publication | SCP   | 2008 |
|     4 | Dream Publication  | DTP   | 2003 |
|     5 | McGraw Publication | MGP   | 2008 |
+-------+--------------------+-------+------+
5 rows in set (0.00 sec)

mysql>
```

CREATION OF FOREIGN KEY:

1)

Alter table catalogue135

add foreign key (pubid)

references publisher135(pubid)

on delete cascade on update cascade

2)

Alter table catalogue135

add foreign key (bookid)

references order135(bookid)

on delete cascade on update cascade
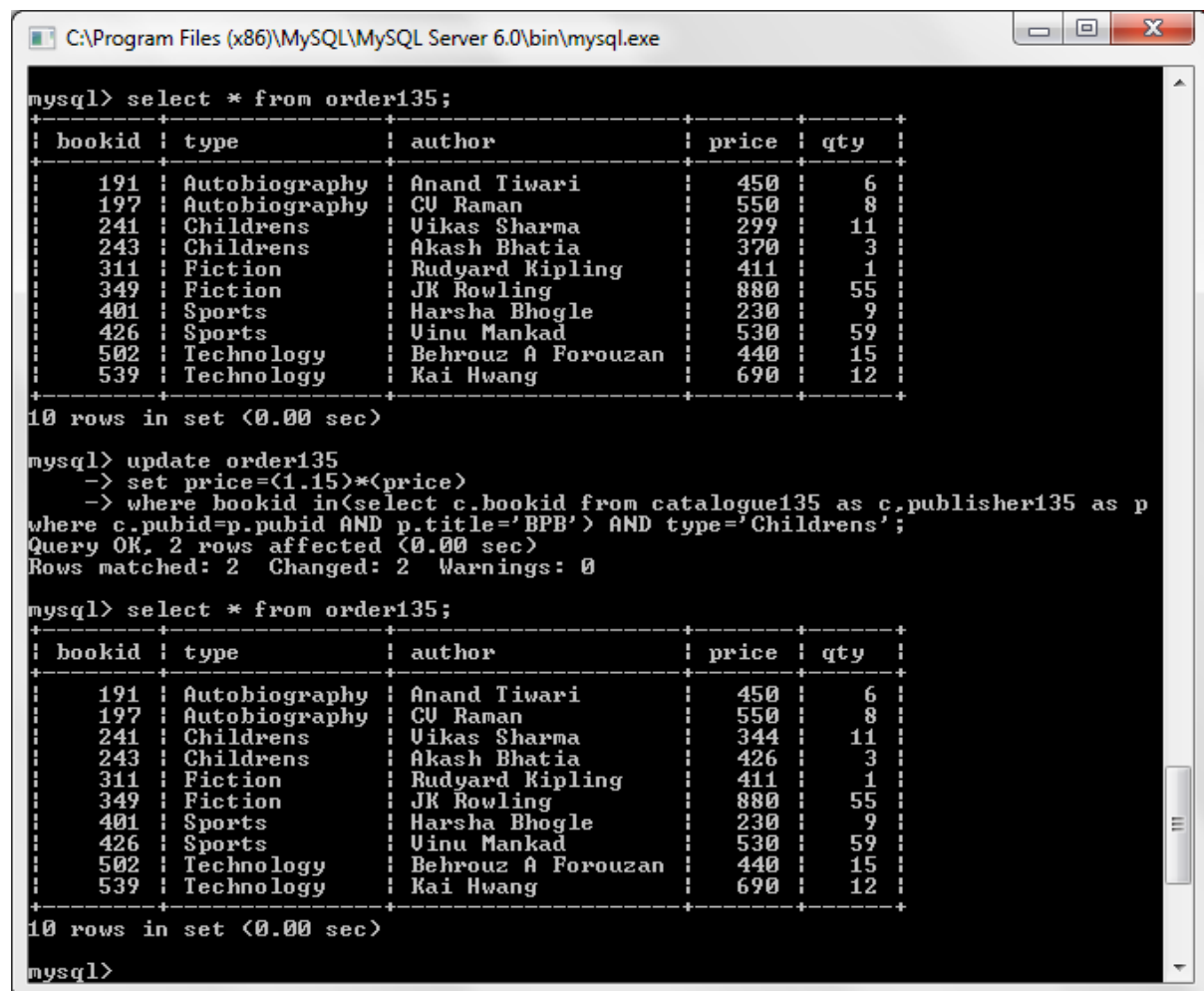
1)INCREASE THE PRICE OF ALL BOOKS OF COMPUTER TYPE BY 15% AND PUBLISHED BY BPB

ANS-

update order135

set price=(1.15)(price)*

where bookid in(select c.bookid from catalogue135 as c,publisher135 as p where c.pubid=p.pubid AND p.title='BPB') AND type='Childrens';

2)DISPLAY THE MAX PRICE OF THE BOOK

ANS-

select bookid,price from order135 where price=(select MAX(price) from order135);

3)DISPLAY THE INFORMATION OF THE SECOND HIGHEST PRICE OF THE BOOK

ANS-

*select * from order135 order by price desc limit 1,1;*

4)GET THE pubid AND pubname OF ALL THE BOOKS WHERE QUANTITIY IS GREATER THAN 50.

ANS-

select p.pubid,p.pname from publisher135 as p,order135 as o,catalogue135 as c where c.bookid=o.bookid AND c.pubid=p.pubid AND o.qty > 50;
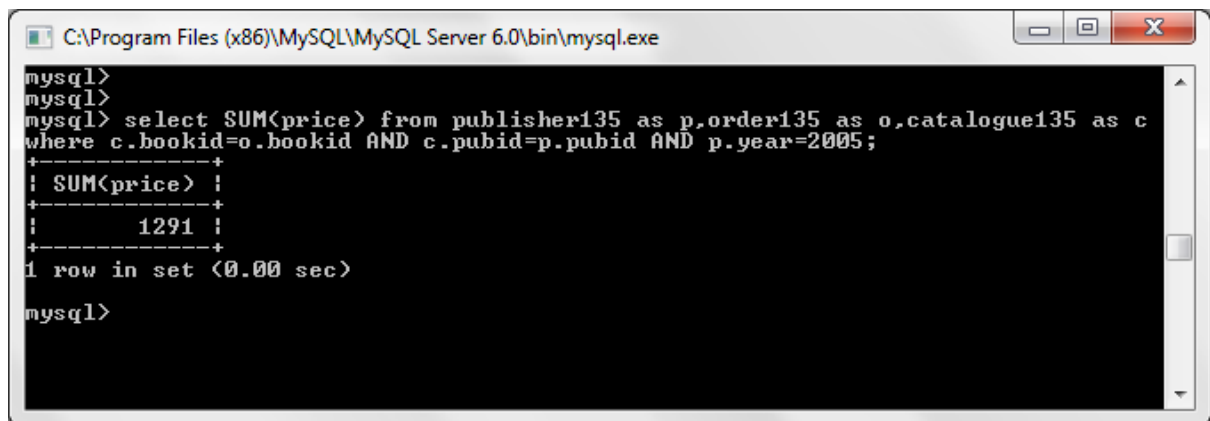
5)GET THE TOTAL PRICE OF ALL BOOKS PUBLISHED IN THE YEAR 2005;

ANS-

select SUM(price) from publisher135 as p,order135 as o,catalogue135 as c where c.bookid=o.bookid AND c.pubid=p.pubid AND p.year=2005;
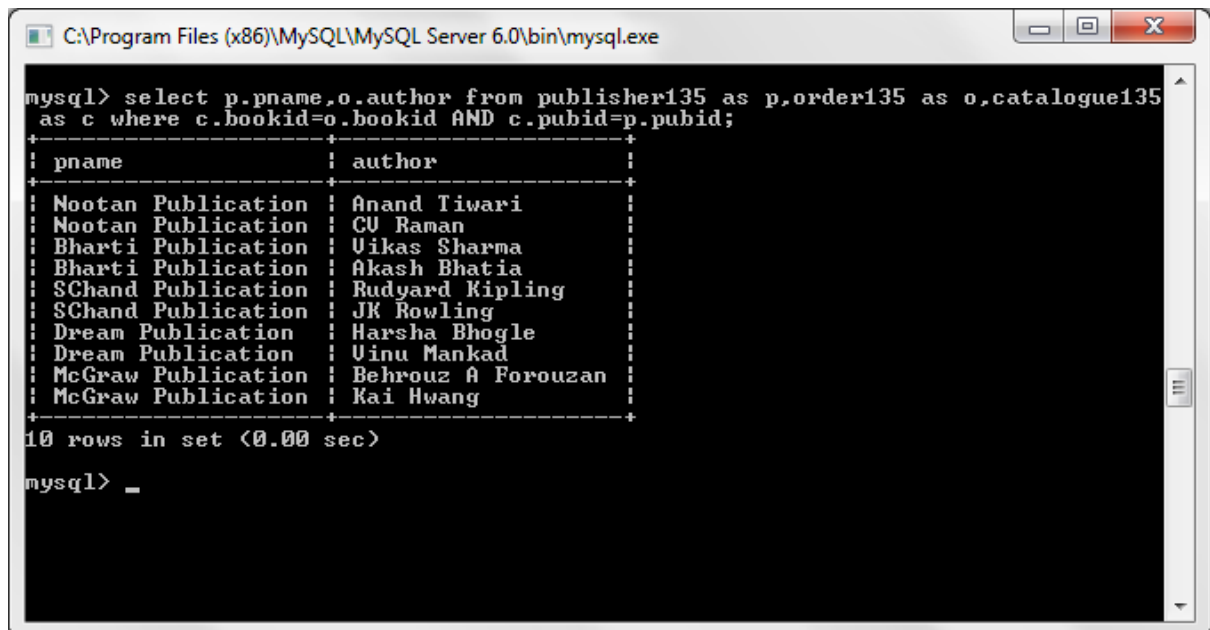
```
C:\Program Files (x86)\MySQL\MySQL Server 6.0\bin\mysql.exe

mysql>
mysql>
mysql> select SUM(price) from publisher135 as p,order135 as o,catalogue135 as c
where c.bookid=o.bookid AND c.pubid=p.pubid AND p.year=2005;
+------------+
| SUM(price) |
+------------+
|       1291 |
+------------+
1 row in set (0.00 sec)

mysql>
```

6)GET THE PUBLISHER NAME & AUTHOR OF ALL THE BOOKS.

ANS-

select p.pname,o.author from publisher135 as p,order135 as o,catalogue135 as c where c.bookid=o.bookid AND c.pubid=p.pubid;
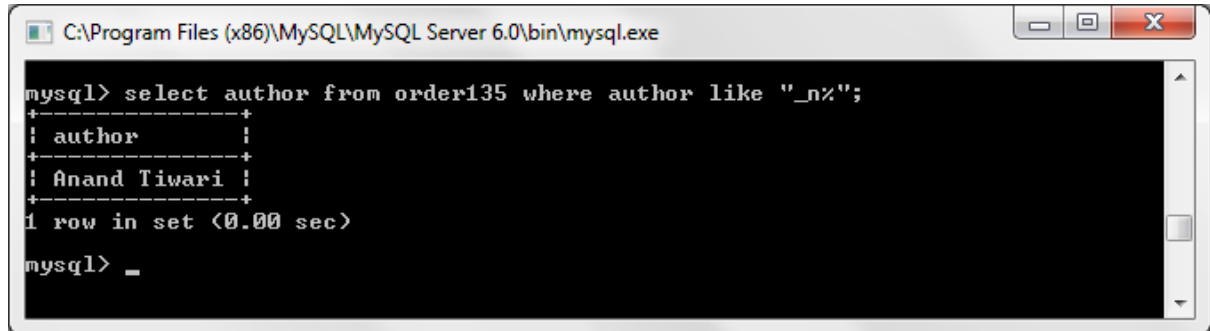
```
C:\Program Files (x86)\MySQL\MySQL Server 6.0\bin\mysql.exe

mysql> select p.pname,o.author from publisher135 as p,order135 as o,catalogue135
 as c where c.bookid=o.bookid AND c.pubid=p.pubid;
+---------------------+---------------------+
| pname               | author              |
+---------------------+---------------------+
| Nootan Publication  | Anand Tiwari        |
| Nootan Publication  | CV Raman            |
| Bharti Publication  | Vikas Sharma        |
| Bharti Publication  | Akash Bhatia        |
| SChand Publication  | Rudyard Kipling     |
| SChand Publication  | JK Rowling          |
| Dream Publication   | Harsha Bhogle       |
| Dream Publication   | Vinu Mankad         |
| McGraw Publication  | Behrouz A Forouzan  |
| McGraw Publication  | Kai Hwang           |
+---------------------+---------------------+
10 rows in set (0.00 sec)

mysql> _
```

7)FIND THE NAME OF ALL THE AUTHOR WHOSE SECOND CHARACTER IS 'n';

ANS-

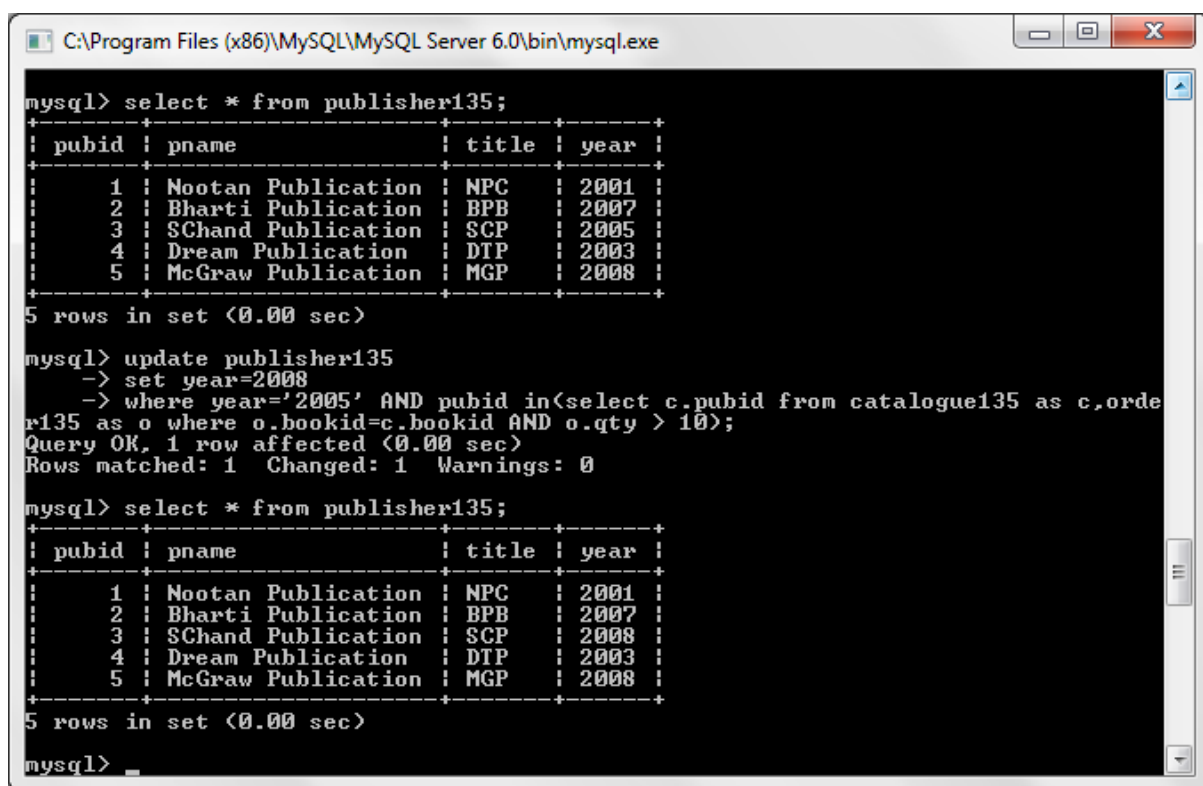*select author from order135 where author like "_n%";*

8)CHANGE THE YEAR OF PUBLISHING ALL THE BOOKS FROM 2005 TO 2008 WHEN QUANTITY IS MORE THAN 2;

ANS-

update publisher135

set year=2008

where year='2005' AND pubid in(select c.pubid from catalogue135 as c,order135 as o where o.bookid=c.bookid AND o.qty > 10);