
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

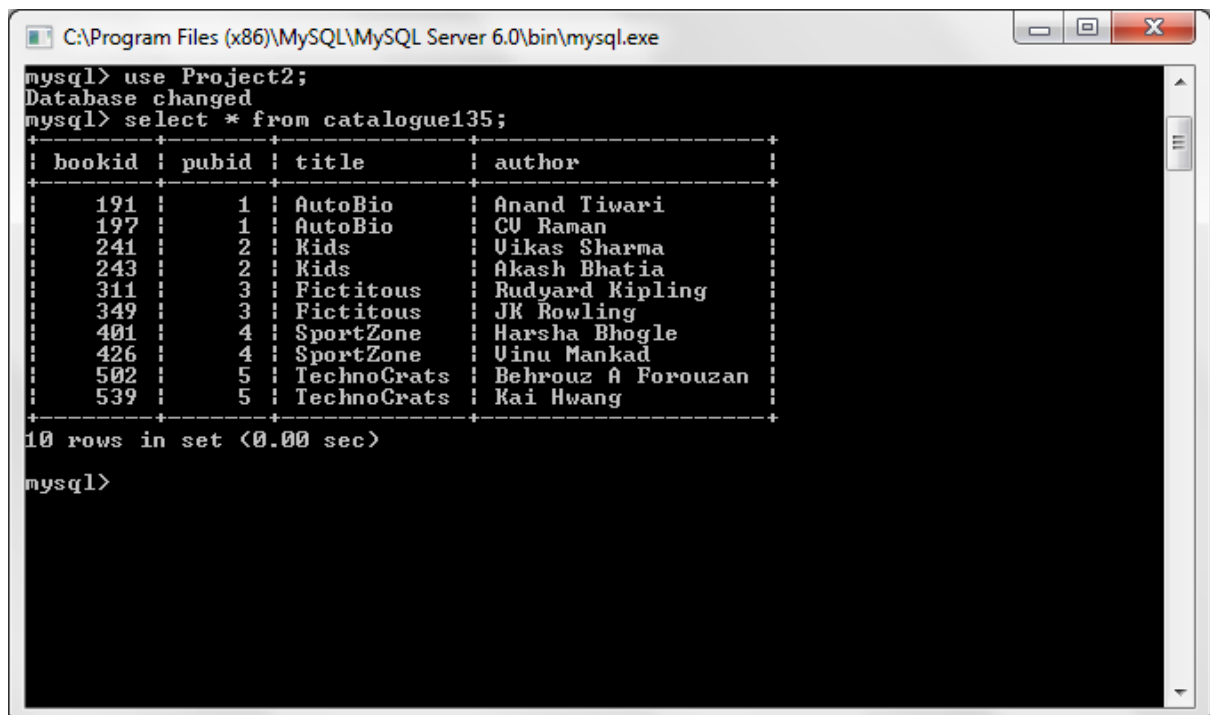
(bookid int primary key,

pubid int,

title varchar(20),

author varchar(20)

);



The screenshot shows a MySQL command window with the following text:

```
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	CU Raman
241	2	Kids	Uikas Sharma
243	2	Kids	Akash Bhatia
311	3	Fictitious	Rudyard Kipling
349	3	Fictitious	JK Rowling
401	4	SportZone	Harsha Bhogle
426	4	SportZone	Uinu 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,

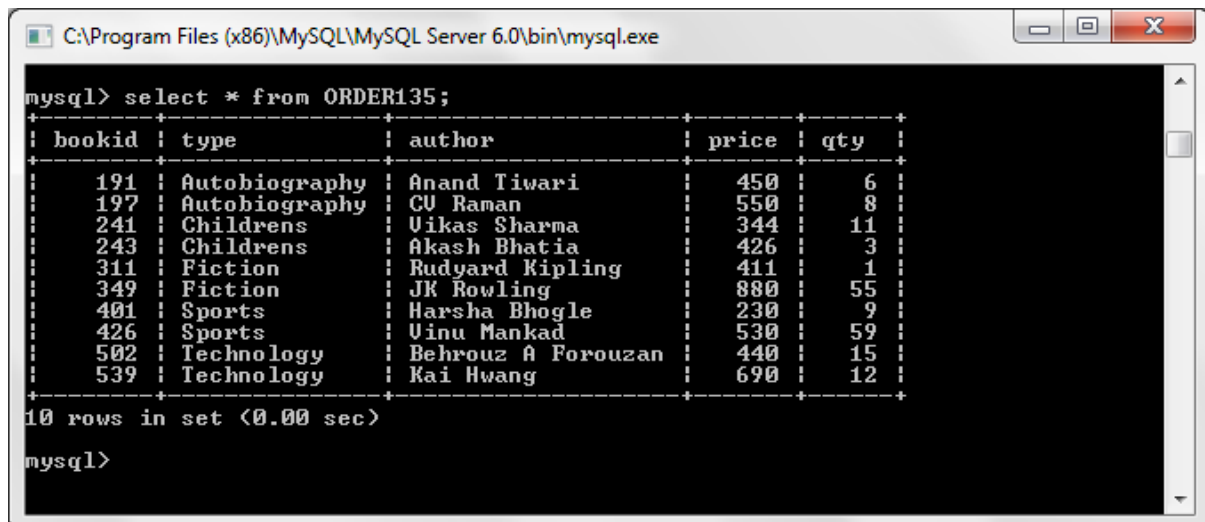
type varchar(20),

author varchar(20),

price int,

qty int

);



The screenshot shows a MySQL command prompt window with the title bar "C:\Program Files (x86)\MySQL\MySQL Server 6.0\bin\mysql.exe". The command prompt displays the following text:

```
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

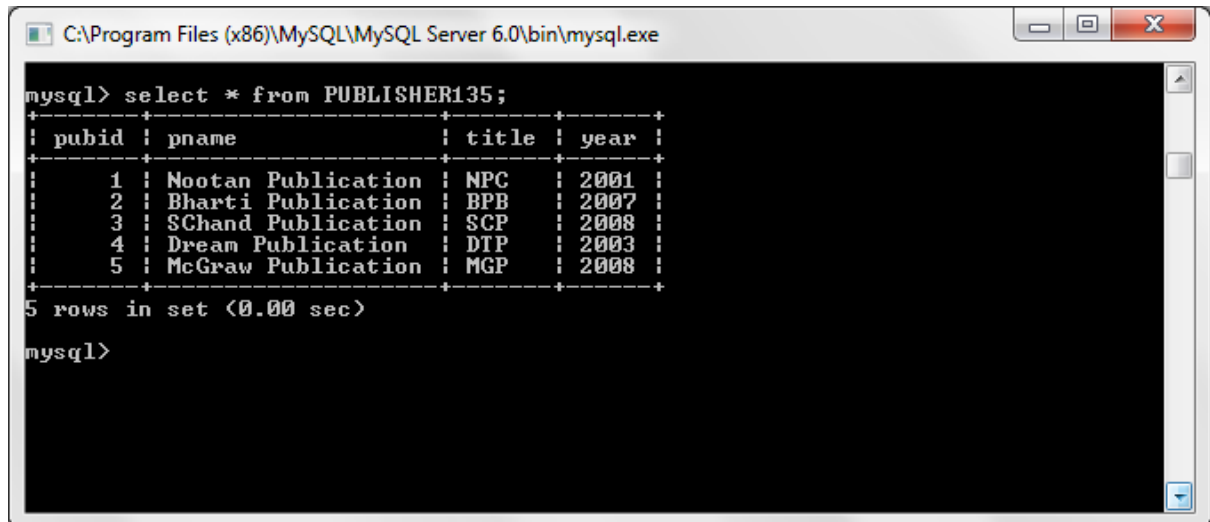
(pubid int primary key,

pname varchar(20),

title varchar(20),

year int

);



A screenshot of a MySQL command window titled "C:\Program Files (x86)\MySQL\MySQL Server 6.0\bin\mysql.exe". The window shows the output of the command "mysql> select * from PUBLISHER135;". The output is a table with four columns: pubid, pname, title, and year. There are five rows of data. Below the table, it says "5 rows in set (0.00 sec)". The prompt "mysql>" is visible at the bottom.

```
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

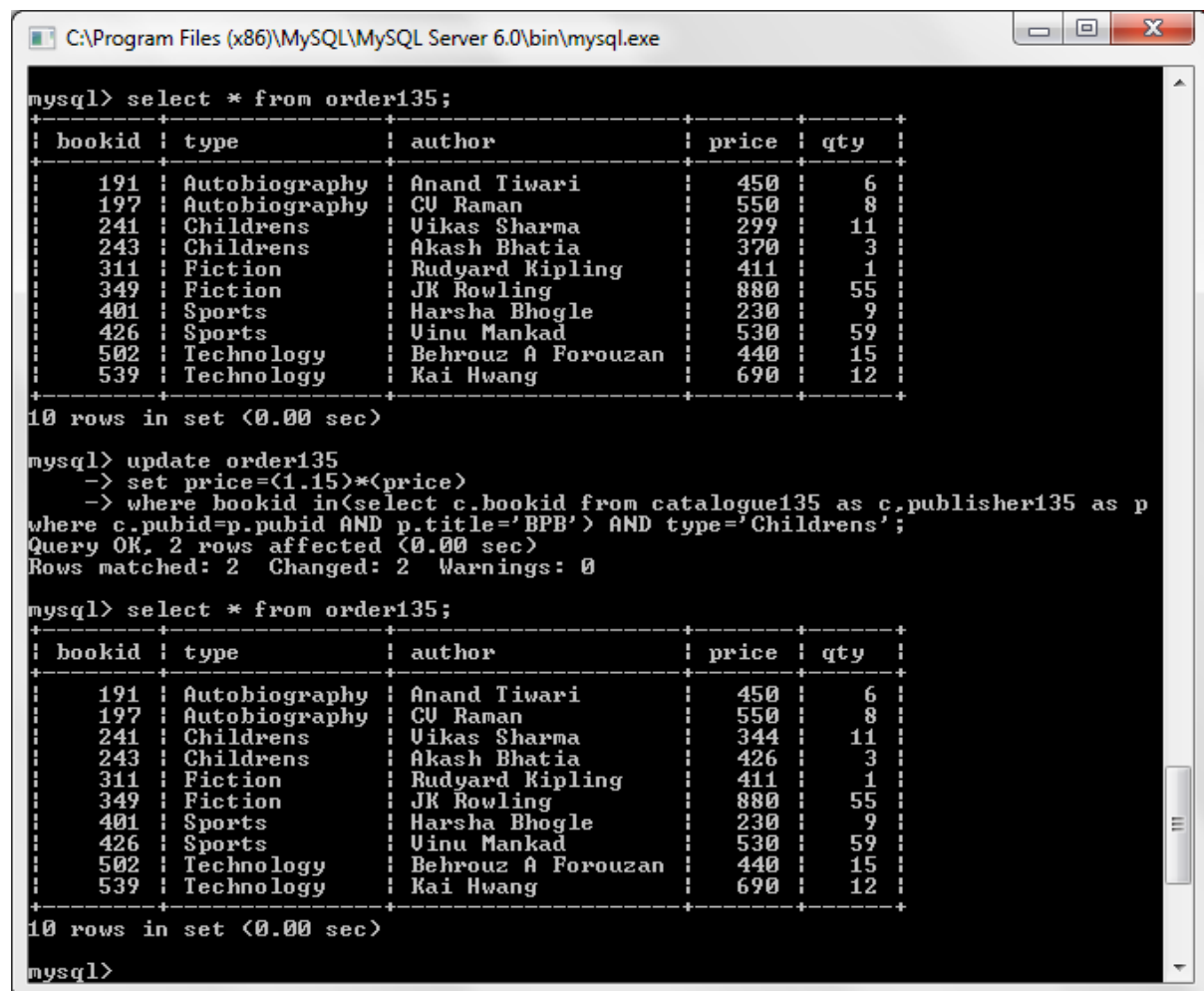
1) INCREASE THE PRICE OF ALL BOOKS OF COMPUTER TYPE BY 15% AND PUBLISHED BY BPB

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';*



```
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    | 299   | 11  |
| 243    | Childrens    | Akash Bhatia    | 370   | 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> 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';
Query OK, 2 rows affected (0.00 sec)
Rows matched: 2 Changed: 2 Warnings: 0

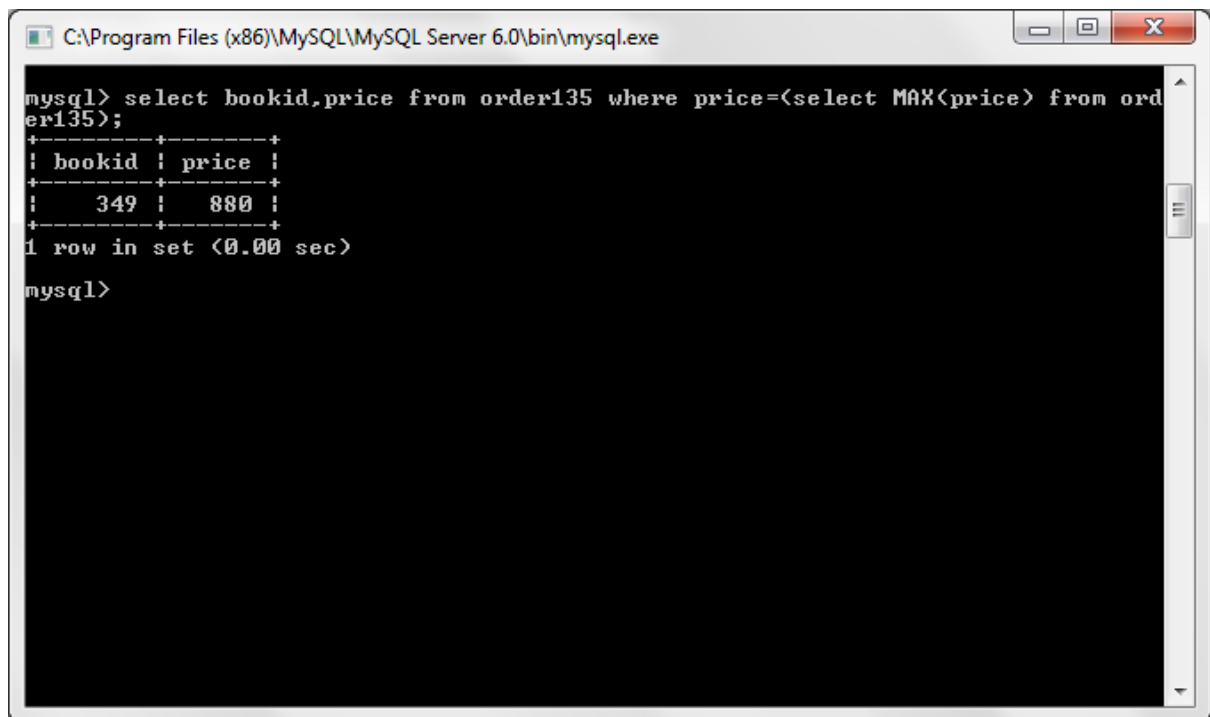
mysql> select * from order135;
+----+-----+-----+-----+-----+
| bookid | type      | author          | price | qty |
+----+-----+-----+-----+-----+
| 191    | Autobiography | Anand Tiwari    | 450   | 6   |
| 197    | Autobiography | CU Raman        | 550   | 8   |
| 241    | Childrens    | Vikas Sharma    | 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>
```

2)DISPLAY THE MAX PRICE OF THE BOOK

ANS-

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



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

mysql> select bookid,price from order135 where price=(select MAX(price) from order135);
+-----+-----+
| bookid | price |
+-----+-----+
|    349 |    880 |
+-----+-----+
1 row in set (0.00 sec)

mysql>
```

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

ANS-

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



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

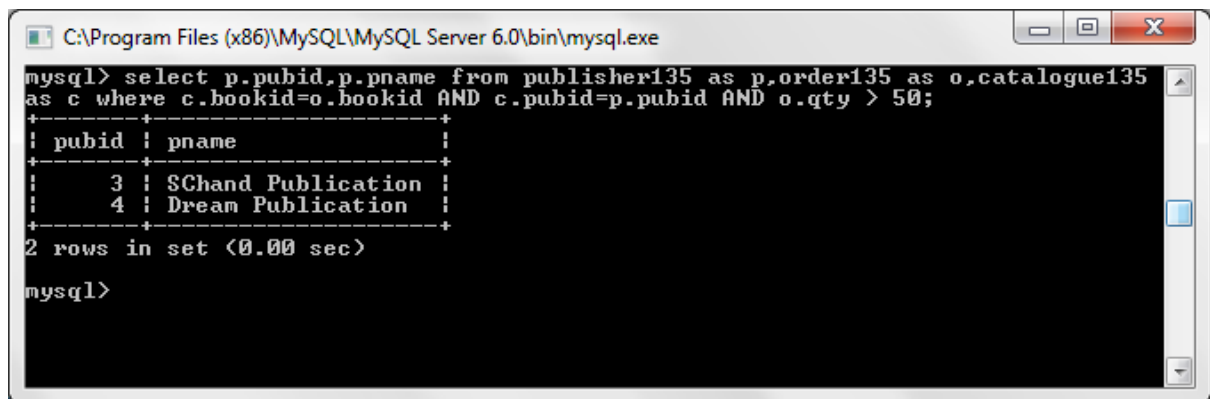
mysql> select * from order135 order by price desc limit 1,1;
+-----+-----+-----+-----+-----+
| bookid | type      | author  | price | qty |
+-----+-----+-----+-----+-----+
| 539    | Technology | Kai Hwang | 690   | 12  |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql>
```


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;



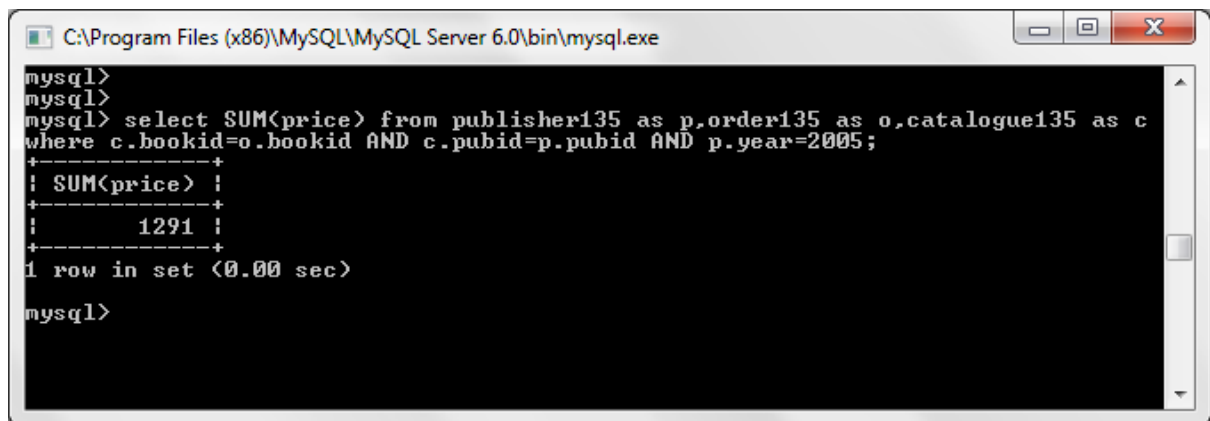
```
C:\Program Files (x86)\MySQL\MySQL Server 6.0\bin\mysql.exe
mysql> select p.pubid,p.pname from publisher135 as p,order135 as o,catalogue135
as c where c.bookid=o.bookid AND c.pubid=p.pubid AND o.qty > 50;
+-----+-----+
| pubid | pname                |
+-----+-----+
|      3 | SChand Publication   |
|      4 | Dream Publication    |
+-----+-----+
2 rows in set (0.00 sec)

mysql>
```

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;*



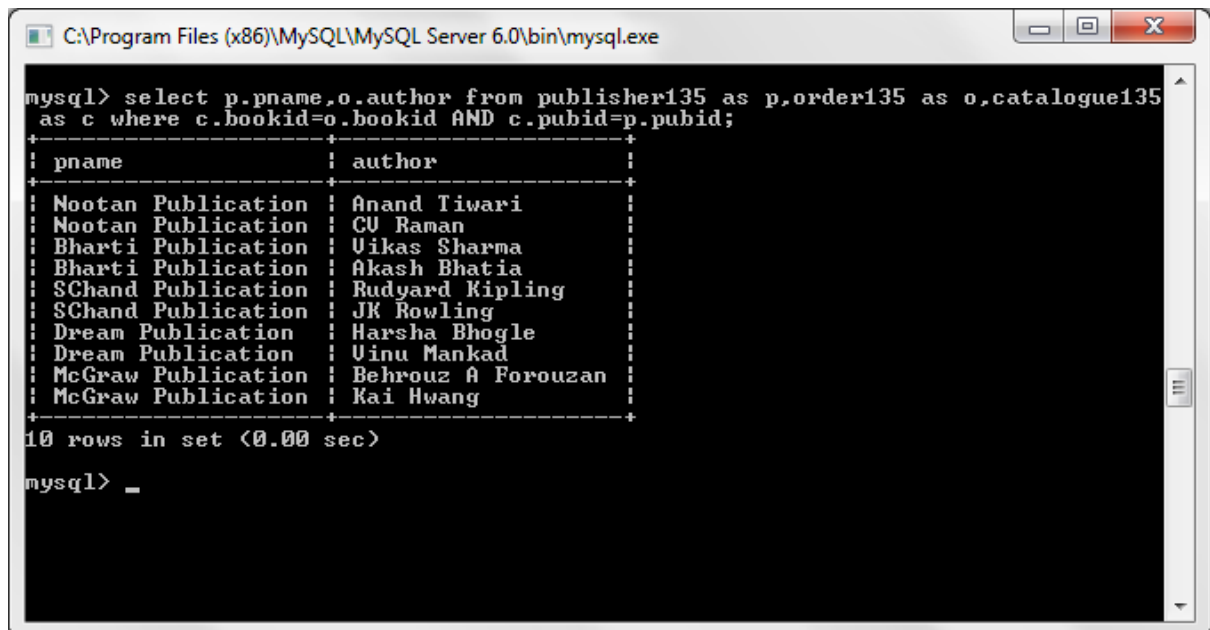
```
C:\Program Files (x86)\MySQL\MySQL Server 6.0\bin\mysql.exe
mysql>
mysql>
mysql> select SUM(price) from publisher135 as p,order135 as o,catalogue135 as c
where c.bookid=o.bookid AND c.pubid=p.pubid AND p.year=2005;
+-----+
| SUM(price) |
+-----+
|         1291 |
+-----+
1 row in set (0.00 sec)

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;



The screenshot shows a MySQL command prompt window with the following content:

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

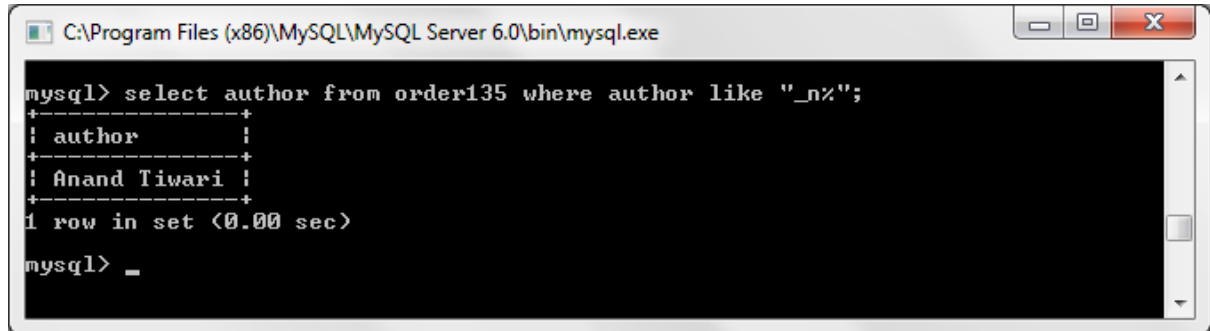
mysql> select p.pname,o.author from publisher135 as p,order135 as o,catalogue135
as c where c.bookid=o.bookid AND c.pubid=p.pubid;
+-----+-----+
| pname          | author          |
+-----+-----+
| Nootan Publication | Anand Tiwari    |
| Nootan Publication | CU Raman        |
| Bharti Publication | 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%";



The screenshot shows a Windows command prompt window titled "C:\Program Files (x86)\MySQL\MySQL Server 6.0\bin\mysql.exe". The prompt is "mysql>". The user has entered the query "select author from order135 where author like "_n%";". The output shows a single row with the author name "Anand Tiwari". The prompt then shows "mysql> _" indicating the user has pressed an underscore key.

```
mysql> select author from order135 where author like "_n%";
+-----+
| author |
+-----+
| Anand Tiwari |
+-----+
1 row in set (0.00 sec)

mysql> _
```

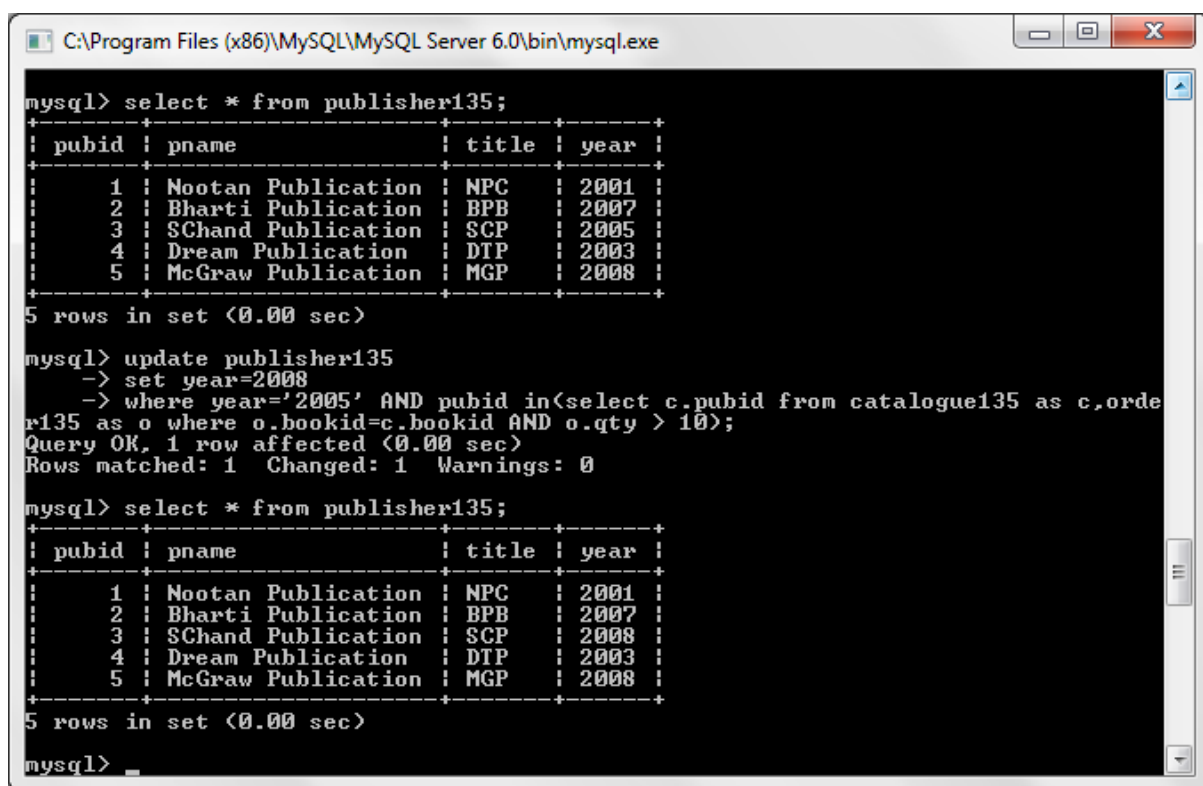
8)CHANGE THE YEAR OF PUBLISHING ALL THE BOOKS FROM 2005 TO 2008 WHEN QUANTITY IS MORE THAN 2;

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);



```
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   | 2005 |
| 4     | Dream Publication  | DTP   | 2003 |
| 5     | McGraw Publication | MGP   | 2008 |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> 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);
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

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> _
```