

DELHI TECHNOLOGICAL UNIVERSITY

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Roll Number: 2K19/MC/122

Subject: Database Management System Laboratory

Faculty: Prof. Aditya Kaushik

PRACTICAL - 8

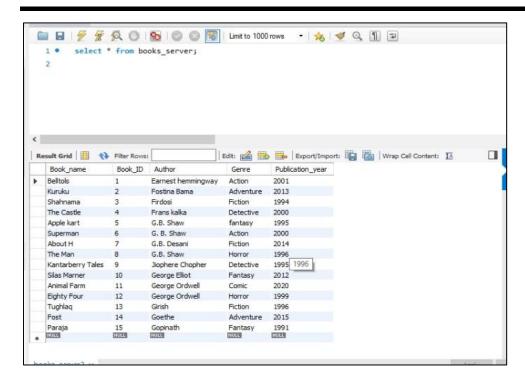
AIM:

Write the transactions in SQL highlighting the use of following three transaction statements:

- 1. COMMIT
- 2. ROLLBACK
- 3. SAVEPOINT

CODE AND OUTPUT:

Database Used:



Commit:

```
For server side help, type 'help contents'

mysql> use college_library

Database changed

mysql> start transaction;

Query OK, 0 rows affected (0.00 sec)

mysql> delete from books_server where Publication_year=2000;

Query OK, 2 rows affected (0.30 sec)

mysql> commit;

Query OK, 0 rows affected (0.13 sec)

mysql> _
```

Book_name	Book_ID	Author	Genre	Publication_year
Belltols	1	Earnest hemmingway	Action	2001
Kuruku	2	Fostina Bama	Adventure	2013
Shahnama	3	Firdosi	Fiction	1994
Apple kart	5	G.B. Shaw	fantasy	1995
About H	7	G.B. Desani	Fiction	2014
The Man	8	G.B. Shaw	Horror	1996
Kantarberry Tales	9	Jiophere Chopher	Detective	1995
Silas Marner	10	George Elliot	Fantasy	2012
Animal Farm	11 12 13	George Ordwell	Comic	2020
Eighty Four	12	George Ordwell	Horror	1999
Tughlaq	13	Girish	Fiction	1996
Fost	14	Goethe	Adventure	2015
Paraja	15	Gopinath	Fantasy	1991

Rollback:

```
mysql> start transaction;
Query OK, O rows affected (0.00 sec)
mysql> delete from books_server where Publication_year = 1994;
Query OK, 1 row affected (0.03 sec)
mysql> rollback;
Query OK, O rows affected (0.19 sec)
 mysql> select * from books_server;
                                                                                                                                             Publication_year
                                            | Book_ID | Author
                                                                                                                    Genre
   Book name
                                                                    Earnest hemmingway
Fostina Bama
Firdosi
G.B. Shaw
G.B. Desani
G.B. Shaw
Jiophere Chopher
George Elliot
George Ordwell
George Ordwell
Girish
Goethe
Gopinath
   Belltols
Kuruku
Shahnama
Apple kart
About H
                                                                                                                    Action
Adventure
Fiction
fantasy
Fiction
                                                                                                                                                                         2001
2013
1994
1995
2014
1996
1995
2012
2020
    ADOUT H
The Man
Kantarberry Tales
Silas Marner
Animal Farm
Eighty Four
Tughlaq
Fost
                                                                                                                    Horror
Detective
                                                           10 |
11 |
12 |
13 |
14 |
15 |
                                                                                                                    Fantasy
Comic
                                                                                                                    Horror
Fiction
Adventure
                                                                                                                                                                          1996
                                                                                                                                                                          2015
1991
    Paraja
                                                                     Gopinath
                                                                                                                     Fantasy
 13 rows in set (0.02 sec)
```

Savepoint:

```
mysql> start transaction;
Query OK, 0 rows affected (0.00 sec)

mysql> savepoint v1;
Query OK, 0 rows affected (0.00 sec)

mysql> delete from books_server where Publication_year = 2020;
Query OK, 1 row affected (0.04 sec)

mysql> savepoint v2;
Query OK, 0 rows affected (0.02 sec)

mysql> delete from books_server where Publication_year = 2015;
Query OK, 1 row affected (0.00 sec)

mysql> savepoint v3;
Query OK, 0 rows affected (0.00 sec)

mysql> delete from books_server where Publication_year = 2012;
Query OK, 1 row affected (0.00 sec)
```

mysql> select * from books_server; | Publication_year | Book_ID | Author Book_name Genre Earnest hemmingway Fostina Bama Firdosi G.B. Shaw G.B. Desani G.B. Shaw Jiophere Chopher George Ordwell Girish 2001 2013 1994 Belltols 1235789 Action Kuruku Shahnama Apple kart About H Adventure Fiction fantasy 1995 2014 Fiction The Man Kantarberry Tales Eighty Four Tughlaq 1996 1995 Horror Detective Horror 13 15 Fiction Gopinath Fantasy Paraja 1991 10 rows in set (0.00 sec) mysql>

	books_serv	 	+	
Book_name	Book_ID	Author	Genre	Publication_year
Belltols Kuruku Shahnama Apple kart About H The Man Kantarberry Tales Silas Marner Eighty Four	1 2 3 5 7 8 9 10	Earnest hemmingway Fostina Bama Firdosi G.B. Shaw G.B. Desani G.B. Shaw Jiophere Chopher George Elliot George Ordwell	Action Adventure Fiction fantasy Fiction Horror Detective Fantasy Horror	2001 2013 1994 1995 2014 1996 1995 2012
Eighty Four Tughlaq Paraja	12 13 15	George Ordwell Girish Gopinath	Horror Fiction Fantasy	1999 1996 1991

Belltols	1	Earnest hemmingway	Action	2001
Kuruku	2	Fostina Bama	Adventure	2013
Shahnama	3	Firdosi	Fiction	1994
Apple kart	5	G.B. Shaw	fantasy	1995
About H	7	G.B. Desani	Fiction	2014
The Man	8	G.B. Shaw	Horror	1996
Kantarberry Tales	9	Jiophere Chopher	Detective	1995
Silas Marner	10	George Elliot	Fantasy	2012
Eighty Four	12	George Ordwell	Horror	1999
Tughlag	13	Girish	Fiction	1996
Paraja	15	Gopinath	Fantasy	1991

11 rows in set (0.00 sec)

mysql> rollback to v2; Query OK, O rows affected (0.00 sec)

mysql> select * from books_server;

Book_name	Book_ID	Author	Genre	Publication_year
Belltols	1	Earnest hemmingway	Action	2001
Kuruku Shahnama	3	Fostina Bama Firdosi	Adventure Fiction	2013 1994
Apple kart	5	G.B. Shaw	fantasy	1995
About H	7	G.B. Desani	Fiction	2014
The Man Kantarberry Tales	8 9	G.B. Shaw Jiophere Chopher	Horror Detective	1996 1995
Silas Marner	10	George Elliot	Fantasy	2012
Eighty Four	12	George Ordwell	Horror	1999
Tughlaq Fost	13	Girish Goethe	Fiction Adventure	1996 2015
Paraja	15	Gopinath	Fantasy	1991

12 rows in set (0.00 sec)

mysql>