

## DBMS Assignment A8

```
mysql> create table library(bno integer,bname varchar(40),author varchar(30),issue_for integer);
```

Query OK, 0 rows affected (1.95 sec)

```
mysql> insert into library values(1,"Harry Potter","J.K. Rowling",15);
```

Query OK, 1 row affected (0.10 sec)

```
mysql> insert into library values(2,"Diary of a Wimpy Kid","Jeff Kenney",20);
```

Query OK, 1 row affected (0.07 sec)

```
mysql> insert into library values(3,"The Time Machine","H.G. Wells",8);
```

Query OK, 1 row affected (0.06 sec)

```
mysql> insert into library values(4,"Invisible Man","Ralph Ellison",25);
```

Query OK, 1 row affected (0.21 sec)

```
mysql> insert into library values(5,"The War of the Worlds","H.G. Wells",10);
```

Query OK, 1 row affected (0.06 sec)

```
mysql> insert into library values(6,"The Diary of a Young Girl","Anne Frank",8);
```

Query OK, 1 row affected (0.07 sec)

```
mysql> select * from library;
```

bno	bname	author	issue_for
1	Harry Potter	J.K.Rowling	15
2	Diary of a Wimpy Kid	Jeff Kenney	20
3	The Time Machine	H.G.Wells	8
4	Invisible Man	Ralph Ellison	25
5	The War of the Worlds	H.G.Wells	10
6	The Diary of a Young Girl	Anne Frank	8

```
mysql> create table library_audit(bno integer,prev_issue_days integer,upd_issue_days integer);
```

Query OK, 0 rows affected (0.79 sec)

```
mysql> desc library_audit;
```

Field	Type	Null	Key	Default	Extra
bno	int	YES		NULL	
prev_issue_day	int	YES		NULL	
upd_issue_days	int	YES		NULL	

3 rows in set (0.01 sec)

```
mysql> delimiter &&
mysql> create trigger t1 before update on library for each row
-> begin
-> insert into library_audit values(old.bno,old.issue_for,new.issue_for);
-> end
-> &&
Query OK, 0 rows affected (0.67 sec)
```

```
mysql> select * from library_audit;
Empty set (0.08 sec)
```

```
mysql> update library set issue_for=16 where bno=3;
Query OK, 1 row affected (0.11 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> select * from library_audit;&&
+-----+-----+-----+
| bno  | prev_issue_days | upd_issue_days |
+-----+-----+-----+
| 3    | 8               | 16              |
+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> update library set issue_for=25 where bno=2;
Query OK, 1 row affected (0.28 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> select * from library_audit;&&
+-----+-----+-----+
| bno  | prev_issue_days | upd_issue_days |
+-----+-----+-----+
| 3    | 8               | 16              |
| 2    | 20              | 25              |
+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> create trigger t2 before delete on library for each row
-> begin
-> insert into library_audit values(old.bno,old.issue_for,old.issue_for);
-> end&& Query OK,
0 rows affected (0.43 sec)
```

```
mysql> delete from library where bno=6;
Query OK, 1 row affected (0.23 sec)
mysql> select * from library;
```

+	-----+	-----+	-----+	-----+
bno	bname	author	issue_for	
+	-----+	-----+	-----+	-----+
1	Harry Potter	J.K.Rowling	15	
2	Diary of a Wimpy Kid	Jeff Kenney	25	
3	The Time Machine	H.G.Wells	16	
4	Invisible Man	Ralph Ellison	25	
5	The War of the Worlds	H.G.Wells	10	
+	-----+	-----+	-----+	-----+

mysql> select \* from library\_audit;

+	-----+	-----+	-----+
bno	prev_issue_day	upd_issue_days	
+	-----+	-----+	-----+
3	8	16	
2	20	25	
6	8	8	
+	-----+	-----+	-----+

3 rows in set (0.03 sec)