Name: Umang Kumar

Roll Number: 7358

ASSIGNMENT NO: 7 TRIGGERS

mysql> create table library(id int(11), book varchar(30), issue\_date date, status varchar(10));

Query OK, 0 rows affected, 1 warning (0.02 sec)

mysql> insert into library values(1, 'wings of fire', '2020-09-11','I'),(2,'Escape from Pretoria','2021-09-14','I');

Query OK, 2 rows affected (0.00 sec)

Records: 2 Duplicates: 0 Warnings: 0

mysql> insert into library values(3, 'PGA Tour', '2020-09-11','I'),(4,'Escape from Alcatraz','2021-06-24','I');

Query OK, 2 rows affected (0.00 sec)

Records: 2 Duplicates: 0 Warnings: 0

mysql> select \* from library;

+------+----------------------+------------+--------+

| id | book | issue\_date | status |

+------+----------------------+------------+--------+

| 1 | wings of fire | 2020-09-11 | I |

| 2 | Escape from Pretoria | 2021-09-14 | I |

| 3 | PGA Tour | 2020-09-11 | I |

| 4 | Escape from Alcatraz | 2021-06-24 | I |

+------+----------------------+------------+--------+

4 rows in set (0.00 sec)

mysql> create table audit (id int(11), book varchar(30), current\_status varchar(30));

Query OK, 0 rows affected, 1 warning (0.02 sec)

mysql> delimiter //

mysql> create trigger upd\_lib

-> before update on library

-> for each row

-> begin

-> insert into audit values(old.id, old.book,'update');

-> end

-> //

Query OK, 0 rows affected (0.02 sec)

mysql> create trigger del\_lib

-> before delete on library

-> for each row

-> begin

-> insert into audit values(old.id, old.book, 'Delete');

-> end

-> //

Query OK, 0 rows affected (0.01 sec)

mysql> update library set status ='R' where id=2;

-> //

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from audit;

-> //

+------+----------------------+----------------+

| id | book | current\_status |

+------+----------------------+----------------+

| 2 | Escape from Pretoria | update |

+------+----------------------+----------------+

1 row in set (0.00 sec)

mysql> delete from library where status ='R';

-> //

Query OK, 1 row affected (0.00 sec)

mysql> select \* from audit;

-> //

+------+----------------------+----------------+

| id | book | current\_status |

+------+----------------------+----------------+

| 2 | Escape from Pretoria | update |

| 2 | Escape from Pretoria | Delete |

+------+----------------------+----------------+

2 rows in set (0.00 sec)