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| **9)Create a Library database with the schema Books(AccNo,Title,Author,Publisher,Count).**  **a.Create a table Library\_Audit with same fiels as of Books.**  **b.Create a before trigger to insert records into Librry\_Audit table if there is deletion in Books table.**  **c.Create a after trigger to insert records into Librry\_Audit table if there is updation in Books table** |

unix@unix-HP-280-G1-MT:~$ mysql -u root -p

mysql> create database Lib; **//create database**

Query OK, 1 row affected (0.00 sec)

mysql> use Lib;

Database changed

mysql> create table book(Acc\_no int(20),Title varchar(20),Author varchar(20),publisher varchar(20), count varchar(20),primary key(Acc\_no));

Query OK, 0 rows affected (0.37 sec) **//create Table1**

mysql> create table Lib\_audit(Acc\_no int(20),Title varchar(20),Author varchar(20),publisher varchar(20), count varchar(20),primary key(Acc\_no));

Query OK, 0 rows affected (0.25 sec) **//create Table2**

mysql> desc book;

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

| Field | Type | Null | Key | Default | Extra |

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

| Acc\_no | int(20) | NO | PRI | NULL | |

| Title | varchar(20) | YES | | NULL | |

| Author | varchar(20) | YES | | NULL | |

| publisher | varchar(20) | YES | | NULL | |

| count | varchar(20) | YES | | NULL | |

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

5 rows in set (0.00 sec)

mysql> desc Lib\_audit;

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

| Field | Type | Null | Key | Default | Extra |

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

| Acc\_no | int(20) | NO | PRI | NULL | |

| Title | varchar(20) | YES | | NULL | |

| Author | varchar(20) | YES | | NULL | |

| publisher | varchar(20) | YES | | NULL | |

| count | varchar(20) | YES | | NULL | |

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

5 rows in set (0.00 sec)

mysql> insert into books\_75 values("b101","programming with C++","balagurusamy","mac",5);

ERROR 1146 (42S02): Table 'Lib.books\_75' doesn't exist

mysql> insert into book values("b101","programming with C++","balagurusamy","mac",5);

ERROR 1366 (HY000): Incorrect integer value: 'b101' for column 'Acc\_no' at row 1

mysql> insert into book values(101,"programming with C++","balagurusamy","mac",5);

Query OK, 1 row affected (0.03 sec)

mysql> insert into book values(102,"LMN","EFG","oxford",10);

Query OK, 1 row affected (0.06 sec)

mysql> insert into books values(103,"TOC","vivek kulkarni","oxford",15);

ERROR 1146 (42S02): Table 'Lib.books' doesn't exist

mysql> insert into book values(103,"TOC","vivek kulkarni","oxford",15);

Query OK, 1 row affected (0.04 sec)

mysql> insert into book values(104,"ADS","varsha patil","arihant",15);

Query OK, 1 row affected (0.04 sec)

mysql> select \* from book;

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

| Acc\_no | Title | Author | publisher | count |

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

| 101 | programming with C++ | balagurusamy | mac | 5 |

| 102 | LMN | EFG | oxford | 10 |

| 103 | TOC | vivek kulkarni | oxford | 15 |

| 104 | ADS | varsha patil | arihant | 15 |

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

4 rows in set (0.00 sec)

**//before trigger on delete**

mysql> DELIMITER $$

mysql> CREATE TRIGGER d\_trigger BEFORE DELETE ON book FOR EACH ROW

-> BEGIN

-> INSERT INTO Lib\_audit values(OLD.Acc\_no, OLD.Title, OLD.Author, OLD.publisher, OLD.count);

-> END $$

Query OK, 0 rows affected (0.06 sec)

mysql> delete from book where Acc\_no="101";

-> $$

Query OK, 1 row affected (0.06 sec)

mysql> select \* from Lib\_audit;

-> $$

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

| Acc\_no | Title | Author | publisher | count |

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

| 101 | programming with C++ | balagurusamy | mac | 5 |

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

1 row in set (0.00 sec)

**//after trigger on update**

mysql> DELIMITER $$

mysql> CREATE TRIGGER upd\_trigger AFTER UPDATE ON book FOR EACH ROW

-> BEGIN

-> INSERT INTO Lib\_audit values(NEW.acc\_no,NEW.title,NEW.author,NEW.publisher,NEW.count);

-> END $$

Query OK, 0 rows affected (0.07 sec)

mysql> update book set count=20 where acc\_no="105";

-> $$

Query OK, 0 rows affected (0.01 sec)

Rows matched: 0 Changed: 0 Warnings: 0

mysql> select \* from Lib\_audit;

-> $$

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

| Acc\_no | Title | Author | publisher | count |

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

| 101 | programming with C++ | balagurusamy | mac | 5 |

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

1 row in set (0.00 sec)

mysql> select \* from book;

-> $$

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

| Acc\_no | Title | Author | publisher | count |

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

| 102 | LMN | EFG | oxford | 10 |

| 103 | TOC | vivek kulkarni | oxford | 15 |

| 104 | ADS | varsha patil | arihant | 15 |

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

3 rows in set (0.00 sec)

mysql> update book set count=20 where acc\_no="103";

-> $$

Query OK, 1 row affected (0.03 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from book;

-> $$

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

| Acc\_no | Title | Author | publisher | count |

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

| 102 | LMN | EFG | oxford | 10 |

| 103 | TOC | vivek kulkarni | oxford | 20 |

| 104 | ADS | varsha patil | arihant | 15 |

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

3 rows in set (0.00 sec)

mysql> select \* from Lib\_audit;

-> $$

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

| Acc\_no | Title | Author | publisher | count |

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

| 101 | programming with C++ | balagurusamy | mac | 5 |

| 103 | TOC | vivek kulkarni | oxford | 20 |

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

2 rows in set (0.00 sec)