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PANEL:-D

ROLL NO. :- PD33 (D2)

## ASSIGNMET NO. - 6

Consider the following relational schema:

BOOK (Isbn, Title, SoldCopies)

WRITING (Isbn, Name)

AUTHOR (Name, SoldCopies)

Define a set of triggers for keeping SoldCopies in AUTHOR updated with respect to:

- updates on SoldCopies in BOOK
- insertion of new tuples in the WRITING relation

```
MySQL localhost:33060+ ssl assn6 SQL > select * from author;
 authname | a_soldcopies |
                       15
 Raju
 Ram
 Raman
 Rohit
                       15
 Tuyash
                       20
5 rows in set (0.0010 sec)
MySQL localhost:33060+ ssl assn6 SQL > select * from book;
 isbn | title | soldcopies |
        DBMS
                         15
        SMD
        IOT
                         10
        MMC
                         20
 rows in set (0.2538 sec)
```

```
MySQL localhost:33060+ ssl assn6 SQL > delimiter //
MySQL localhost:33060+ ssl assn6 SQL > create trigger t1

-> after update on book
-> for each row
-> begin
-> update author
-> set a_soldcopies = a_soldcopies + new.soldcopies - old.soldcopies
-> where authname in (select authname from writing where isbn = new.isbn);
-> end //
Query OK, 0 rows affected (0.3727 sec)
```

```
MySQL localhost:33060+ ssl assn6 SQL > create trigger t2

-> after insert on writing
-> for each row
-> begin
-> update author
-> set a_soldcopies = a_soldcopies +
-> (select soldCopies
-> from book
-> where isbn = new.isbn)
-> where authname = new.authname;
-> end//

Query OK, 0 rows affected (0.7422 sec)
```

Use a cursor to calculate compound interest for each customer and insert customer id and simple interest in another table named TEMPLIST.

Customer(cust\_id, Prinicipal\_amount, Rate\_of\_interest, No. of Years)

```
MySQL localhost:33060+ ssl assn6 SQL > create procedure calculate_simpleinterest()
                                         -> begin
                                         -> declare v_interest float;
                                         -> declare v_cid int;
                                         -> declare p int;
                                         -> declare r int;
                                         -> declare y int;
                                         -> declare done int default 0;
                                         -> declare c1 cursor for select * from customer;
                                         -> declare continue handler for not found set done = 1;
                                         -> open c1;
                                         -> repeat
                                         -> fetch c1 into v_cid,p,r,y;
                                         -> set v_interest = p*r*y/100;
                                         -> if done = 0 then
-> insert into temp_list values(v_cid,v_interest);
                                         -> end if;
                                         -> until done end repeat;
                                         -> close c1;
                                         -> end$
Query OK, 0 rows affected (0.8071 sec)
```