Assignment 5

DBMS LAB
IT552

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Fifth Semester

Information Technology (HY)

Q1. Write a trigger on salesman(sno, name, city, balance) table. The system must keep track of the records that are being deleted or modified. When a record is deleted or modified, the original record details are stored in information(sno, balance, operation) table.
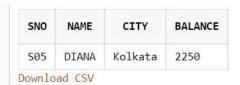
create table salesman (

sno varchar2(4) ,

name varchar2(10) ,

city varchar2(10) ,

balance number(8,2)

);

insert into salesman values ('S01' , 'STEVE' , 'Mumbai' , 5025) ;

insert into salesman values ('S02' , 'BRUCE' , 'Delhi' , 1250) ;

insert into salesman values ('S03' , 'PETER' , 'Mumbai' , 6000) ;

insert into salesman values ('S04' , 'CLARK' , 'Bengaluru' , 2300) ;

insert into salesman values ('S05' , 'DIANA' , 'Kolkata' , 4500) ;

insert into salesman values ('S06' , 'NATASHA' , 'Mumbai' , 3689) ;

SNO	NAME	CITY	BALANCE
S01	STEVE	Mumbai	5025
S02	BRUCE	Delhi	1250
S03	PETER	Mumbai	6000
S04	CLARK	Bengaluru	2300
S05	DIANA	Kolkata	4500
S06	NATASHA	Mumbai	3689

```
create table information (
sno varchar2(4) ,
balance number(8,2),
operation varchar2(10)
);
```

no data found

```
create trigger edit_trigger
after update or delete on salesman
for each row
declare oper varchar2(10);
begin
if updating then
oper:='Update';
end if;
if deleting then
oper:='Delete';
end if;
insert into information values (:old.sno, :old.balance,
oper);
end;
```

-- Trigger Created

```
update salesman set balance = balance*0.5 where city =
'Kolkata';
```

SNO	BALANCE	OPERATION
S05	4500	Update

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SNO	NAME	CITY	BALANCE
S05	DIANA	Kolkata	2250

Download CSV

Information   salesman

```
delete from salesman where city = 'Mumbai';
```

SNO	BALANCE	OPERATION
S05	4500	Update
S01	5025	Delete
S03	6000	Delete
S06	3689	Delete

SNO	NAME	CITY	BALANCE
S02	BRUCE	Delhi	1250
S04	CLARK	Bengaluru	2300
S05	DIANA	Kolkata	2250

information   salesman

Q2. Write a trigger on customer (cno, name, city balance) table. The system should keep track of the following to perform the operation on balance, if the balance is negative make it zero. But the negative balance is stored as loan amount and the loan no as cno in loan(loanno, amount) table.

```sql
create table customer (

cno varchar2(4) ,

name varchar2(10) ,

city varchar2(10) ,

balance number(8,2)

) ;
insert into customer values ( 'C01' , 'CLINT' , 'Delhi' , 325 ) ;

insert into customer values ( 'C02' , 'KATY' , 'Delhi' , 1150 ) ;

insert into customer values ( 'C03' , 'NATASHA' , 'Chennai' , 1250 ) ;

insert into customer values ( 'C04' , 'WANDA' , 'Kolkata' , 530 ) ;

insert into customer values ( 'C05' , 'SCOTT' , 'Chennai' , 985 ) ;

insert into customer values ( 'C06' , 'HOPE' , 'Mumbai' , 1000 ) ;
```

CNO	NAME	CITY	BALANCE
C01	CLINT	Delhi	325
C02	KATY	Delhi	1150
C03	NATASHA	Chennai	1250
C04	WANDA	Kolkata	530
C05	SCOTT	Chennai	985
C06	HOPE	Mumbai	1000

```sql
create table loan (loanno varchar2(4),amount number(8,2));
--Table Created
create trigger balance_negative
 before update on customer
 for each row when ( new.balance < 0 )
declare
 bal number(8,2) ;
begin
 if :new.balance < 0 then
 bal := 0 - :new.balance ;
 :new.balance := 0 ;
 insert into loan values ( :old.cno, bal ) ;
 end if ;
end ;
--Trigger created
update customer set balance = balance - 1000 where balance
< 1500;
```

CNO	NAME	CITY	BALANCE
C01	CLINT	Delhi	0
C02	KATY	Delhi	150
C03	NATASHA	Chennai	250
C04	WANDA	Kolkata	0
C05	SCOTT	Chennai	0
C06	HOPE	Mumbai	0

LOANNO	AMOUNT
C01	675
C04	470
C05	15

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customer   loan