

HOMEWORK

1. Run the following script:

```
CREATE TABLE tbl_accounts (accid NUMBER(6), balance NUMBER (10,2),  
                           check (balance>=0));  
  
INSERT INTO tbl_accounts VALUES (1169, 7350.00);  
  
INSERT INTO tbl_accounts VALUES (1170, 8900.46);  
  
COMMIT;
```

Open two independence session (Ctrl + Shift + N), run these statements.

Time	Session1	Output1	Session2	Output2
t0	SET TRANSACTION NAME 'HW1';			
t1	Update tbl_accounts set balance=balance+79 where accid=1169;			
t2	Select * from tbl_accounts;		Select * from tbl_accounts;	
t3	Commit;			
t4	Select * from tbl_accounts;		Select * from tbl_accounts;	

Why the result is difference at time t2?

Is the data at time t4 still difference? Why?

2. Run the following script:

```
Drop table tbl_accounts;  
  
CREATE TABLE tbl_accounts (accid NUMBER(6), balance NUMBER (10,2),  
                           check (balance>=0));  
  
INSERT INTO tbl_accounts VALUES (1169, 7350.00);  
  
INSERT INTO tbl_accounts VALUES (1170, 8900.46);  
  
INSERT INTO tbl_accounts VALUES (1175, 679.50);
```

```

INSERT INTO tbl_accounts VALUES (1177, 400000);

COMMIT;

/
Create or replace procedure decAccount
As
Begin
    For acc in (select * from tbl_accounts order by accid asc )
    Loop
        Update tbl_accounts set balance=balance-1000 where accid=acc.accid;
    End loop;
End;

```

Time	Session1	Output1
t0	select * from tbl_accounts;	
t1	begin decAccount; end;	
t2	select * from tbl_accounts;	

Compare data at time t0 and t2. Why is the data not different?

3. Run the following script:

```

Drop table tbl_accounts;

CREATE TABLE tbl_accounts (accid NUMBER(6), balance NUMBER (10,2),
                           check (balance>=0));

INSERT INTO tbl_accounts VALUES (1169, 7350.00);
INSERT INTO tbl_accounts VALUES (1170, 8900.46);
INSERT INTO tbl_accounts VALUES (1175, 679.50);
INSERT INTO tbl_accounts VALUES (1177, 400000);

COMMIT;

```

```

Create or replace procedure decAccount
As
Begin
    For acc in (select * from tbl_accounts order by accid asc)
    Loop
        Update tbl_accounts set balance=balance-1000 where accid=acc.accid;
    Commit;
    End loop;
End;

```

Time	Session1	Output1
t0	select * from tbl_accounts;	
t1	begin decAccount; end;	
t2	select * from tbl_accounts;	

Why is the data at time t0 and t2 different?