create or replace TYPE MY\_WISH IS OBJECT( ISBN varchar2(20),BOOK\_NAME varchar2(100),AUTHOR\_NAME varchar2(60),PRICE\_E number);

create or replace TYPE MY\_WISH\_TAB IS TABLE OF MY\_WISH;

create or replace FUNCTION SHOW\_WISHES(MY\_ID IN VARCHAR2)

RETURN MY\_WISH\_TAB

IS

TEMP\_TAB MY\_WISH\_TAB := MY\_WISH\_TAB();

NN INTEGER := 0;

BEGIN

FOR RR IN (SELECT ISBN,BOOK\_NAME,AUTHOR\_NAME,PRICE\_E FROM D\_WISHLIST JOIN BOOK\_CATALOG USING(ISBN) JOIN AUTHOR\_BOOK USING (ISBN) JOIN AUTHOR USING(AUTHOR\_ID) WHERE USER\_ID=MY\_ID)

LOOP

TEMP\_TAB.EXTEND;

NN := NN+1;

TEMP\_TAB(NN) := MY\_WISH(RR.ISBN, RR.BOOK\_NAME, RR.AUTHOR\_NAME, RR.PRICE\_E);

END LOOP;

RETURN TEMP\_TAB;

END;

---------------------------------------------------------------------------------

create or replace TYPE MY\_DONATED IS OBJECT( BOOK\_ID varchar2(20),BOOK\_NAME varchar2(100));

create or replace TYPE MY\_DONATED\_TAB IS TABLE OF MY\_DONATED;

create or replace FUNCTION SHOW\_MY\_DONATED(MY\_ID IN VARCHAR2)

RETURN MY\_DONATED\_TAB

IS

TEMP\_TAB MY\_DONATED\_TAB := MY\_DONATED\_TAB();

NN INTEGER := 0;

BEGIN

FOR RR IN (SELECT BOOK\_ID,BOOK\_NAME FROM BOOK\_ENTRY JOIN BOOK\_CATALOG USING(ISBN) WHERE DONOR\_ID=MY\_ID)

LOOP

TEMP\_TAB.EXTEND;

NN := NN+1;

TEMP\_TAB(NN) := MY\_DONATED(RR.BOOK\_ID, RR.BOOK\_NAME);

END LOOP;

RETURN TEMP\_TAB;

END;

------------------------------------------------------

create or replace TYPE MY\_RECEIVED IS OBJECT( BOOK\_ID varchar2(20),BOOK\_NAME varchar2(100), RECEIVE\_DATE DATE);

create or replace TYPE MY\_RECEIVED\_TAB IS TABLE OF MY\_RECEIVED;

create or replace FUNCTION SHOW\_MY\_RECEIVED(MY\_ID IN VARCHAR2)

RETURN MY\_RECEIVED\_TAB

IS

TEMP\_TAB MY\_RECEIVED\_TAB := MY\_RECEIVED\_TAB();

NN INTEGER := 0;

BEGIN

FOR RR IN (SELECT BOOK\_ID,BOOK\_NAME,DELIVERY\_DATE FROM D\_HISTORY JOIN BOOK\_ENTRY USING(BOOK\_ID) JOIN BOOK\_CATALOG USING(ISBN) WHERE RECIPIENT\_ID=MY\_ID)

LOOP

TEMP\_TAB.EXTEND;

NN := NN+1;

TEMP\_TAB(NN) := MY\_RECEIVED(RR.BOOK\_ID, RR.BOOK\_NAME,RR.DELIVERY\_DATE);

END LOOP;

RETURN TEMP\_TAB;

END;

------------------------------------------------------

create or replace TYPE MY\_NOTI IS OBJECT( BOOK\_ID varchar2(20),BOOK\_NAME varchar2(100),AUTHOR\_NAME varchar2(60),PRICE\_E number);

create or replace TYPE MY\_NOTI\_TAB IS TABLE OF MY\_NOTI;

create or replace FUNCTION SHOW\_NOTI(MY\_ID IN VARCHAR2)

RETURN MY\_NOTI\_TAB

IS

TEMP\_TAB MY\_NOTI\_TAB := MY\_NOTI\_TAB();

NN INTEGER := 0;

BEGIN

FOR RR IN (SELECT BOOK\_ID,BOOK\_NAME,AUTHOR\_NAME,PRICE\_E FROM "NOTIFICATION" JOIN BOOK\_ENTRY USING(BOOK\_ID) JOIN BOOK\_CATALOG USING(ISBN) JOIN AUTHOR\_BOOK USING (ISBN) JOIN AUTHOR USING(AUTHOR\_ID) WHERE RECEIVER\_ID=MY\_ID)

LOOP

TEMP\_TAB.EXTEND;

NN := NN+1;

TEMP\_TAB(NN) := MY\_NOTI(RR.BOOK\_ID, RR.BOOK\_NAME, RR.AUTHOR\_NAME, RR.PRICE\_E);

END LOOP;

RETURN TEMP\_TAB;

END;