**End service:**

endService(accountNo in number, endDate in date)

*Algorithm:* Check if the account exists.

This functionality helps customer to end the service to the account by specifying the account no.

**End date** is to be updated in the ‘account’ table.

**Disconnection fee** will be added to the balance in account table.

The record corresponding to input account number will be updated with **status as ‘inactive’**.

**Message table will be updated** with the record stating the service to the account is discontinued and the request is recieved.

*Input:*1) accountNo

2) endDate

*Output:* Message will be displayed stating account is discontinued.

Create Or Replace Procedure endService (accountNo IN number, endDate IN date)

IS

v\_disconnection\_fee rate.disconnection\_fee%type;

v\_status account.status%type;

v\_end\_date account.end\_date%type;

BEGIN

IF endDate < sysdate THEN

dbms\_output.put\_line('Kindly input a valid date greater than current date.');

GOTO end\_of\_procedure;

END IF;

select UPPER(status),end\_date into v\_status, v\_end\_date from account where aid = accountNo;

/\*End execution if the service is already ended.\*/

IF (v\_status = 'INACTIVE') AND (v\_end\_date IS NOT NULL) THEN

dbms\_output.put\_line('Account '|| accountNo||' is inactive');

GOTO end\_of\_procedure;

END IF;

/\*End date is to be updated in the ‘account’ table. \*/

UPDATE account SET end\_date = endDate WHERE aid = accountNo;

/\*Disconnection fee will be added to the balance in account table.\*/

SELECT disconnection\_fee

INTO v\_disconnection\_fee

FROM rate

WHERE EXTRACT(MONTH FROM rate\_date) = EXTRACT(MONTH FROM endDate) AND

EXTRACT(YEAR FROM rate\_date) = EXTRACT(YEAR FROM endDate) ;

UPDATE account SET account\_balance = account\_balance + v\_disconnection\_fee WHERE aid = accountNo;

dbms\_output.put\_line('Service to account '||accountNo||' has been discontinued and disconnection fees of $'||v\_disconnection\_fee||' has been added to account balance.');

/\*Message table will be updated with the record stating the service to the account is discontinued.\*/

INSERT INTO message VALUES (message\_id\_seq.nextVal,accountNo,'End service request is recieved',systimestamp);

<<end\_of\_procedure>>

dbms\_output.put\_line('');

EXCEPTION

when no\_data\_found then dbms\_output.put\_line('Data for the speficied account doesnot exists');

when too\_many\_rows then dbms\_output.put\_line('Too many rows');

when others then dbms\_output.put\_line('Error in data.');

END;