1)

CREATE OR REPLACE FUNCTION hw6(

numb INT

)

RETURNS VARCHAR(20)

AS

BEGIN

numb = Replicate('M', numb/1000)

+ REPLACE(REPLACE(REPLACE(

Replicate('C', numb%1000/100),

Replicate('C', 9), 'CM'),

Replicate('C', 5), 'D'),

Replicate('C', 4), 'CD')

+ REPLACE(REPLACE(REPLACE(

Replicate('X', numb%100 / 10),

Replicate('X', 9),'XC'),

Replicate('X', 5), 'L'),

Replicate('X', 4), 'XL')

+ REPLACE(REPLACE(REPLACE(

Replicate('I', numb%10),

Replicate('I', 9),'IX'),

Replicate('I', 5), 'V'),

Replicate('I', 4),'IV');

RETURN numb;

END;

SELECT hw6(11) FROM DUAL

2)

CREATE TABLE hw6\_1\_table(

MEMBER\_ID INT,

CALENDAR\_YEAR\_MONTH INT,

MEMBER\_LIFECYCLE\_STATUS VARCHAR(20),

LAPSED\_MONTH INT

);

CREATE OR REPLACE PROCEDURE hw6\_1(pNAME IN VARCHAR)

CURSOR it IS

SELECT table2.\*,

CASE

WHEN table2.MEMBER\_LIFECYCLE\_STATUS='Lapsed' THEN ROW\_NUMBER() OVER(PARTITION BY

table2.MEMBER\_LIFECYCLE\_STATUS ORDER BY table2.member\_id)

ELSE 0

END LAPSED\_MONTH

FROM

(

SELECT

table1.\*,

CASE

WHEN rev.activity\_year\_month IS NULL THEN 'Lapsed'

ELSE 'Active'

END AS MEMBER\_LIFECYCLE\_STATUS

FROM

(

SELECT DISTINCT

coalesce(rev.member\_id, 1001) AS member\_id,

cal.calendar\_year\_month

FROM calendar cal

LEFT JOIN revenue\_analysis rev ON cal.calendar\_year\_month=rev.activity\_year\_month

WHERE rev.member\_id=1001 OR rev.member\_id IS NULL

UNION

SELECT DISTINCT

coalesce(rev.member\_id, 1002) member\_id,

cal.calendar\_year\_month

FROM calendar cal

LEFT JOIN revenue\_analysis rev ON cal.calendar\_year\_month=rev.activity\_year\_month

WHERE rev.member\_id=1002 OR rev.member\_id IS NULL

UNION

SELECT DISTINCT

coalesce(rev.member\_id, 1003) member\_id,

cal.calendar\_year\_month

FROM calendar cal

LEFT JOIN revenue\_analysis rev ON cal.calendar\_year\_month=rev.activity\_year\_month

WHERE rev.member\_id=1003 OR rev.member\_id IS NULL

ORDER BY member\_id, calendar\_year\_month

) table1

LEFT JOIN revenue\_analysis rev ON table1.calendar\_year\_month=rev.activity\_year\_month AND

table1.member\_id=rev.member\_id

) table2

ORDER BY member\_id, calendar\_year\_month

new\_table hw6\_1\_table%rowtype

IS

BEGIN

OPEN it;

LOOP

FETCH it INTO new\_table;

EXIT WHEN it%NOTFOUND;

INSERT INTO hw6\_1\_table VALUES (new\_table.MEMBER\_ID,

new\_table.CALENDAR\_YEAR\_MONTH,

new\_table.MEMBER\_LIFECYCLE\_STATUS,

SELECT hw6(new\_table.LAPSED\_MONTH) FROM DUAL);

END LOOP;

CLOSE it;

END;