1. 아래 Script를 수행한 후 year,hakgi,jumin\_no,hakbun,name,iphak\_ymd,address 값 총 3건을 구하시요. 장학기준으로 학번 구함

create table janghak  
(   
 jumin\_no   char(13) not null,  
 year          char(4) not null,  
 hakgi        char(1) not null,  
 amt          number)  
);

insert into janghak values ('9901011580411','2018','1',10000);  
insert into janghak values ('9901011580411','2016','1',20000);

insert into janghak values ('9801012580411','2017','2',20000);  
commit;

create table student  
(  
 hakbun    varchar2(10) not null,  
 name       varchar2(10) not null,  
 jumin\_no  char(13) not null,  
 iphak\_ymd char(8) not null,  
 address    varchar2(30)   
);

insert into student values ('1','이효복','9901011580411','20150302','SEOUL'); //못 받음  
insert into student values ('2','이효복','9901011580411','20160302','PUSAN'); //2016년도 1학기  
insert into student values ('3','이효복','9901011580411','20170902','DAEJUN'); //2018년도 1학기

insert into student values ('4','김병준','9801012580411','20170302','KIMPO'); //2017년도 2학기  
commit;

**SQL :**

SELECT AA.YEAR, AA.JUMIN\_NO, BB.HAKBUN, BB.NAME, BB.IPHAK\_YMD, BB.ADDRESS

FROM

(SELECT A.\*, YEAR||DECODE(HAKGI,1,'0302',2,'0902') AS MON FROM JANGHAK A) AA,

(SELECT B.\*, NVL(LEAD(IPHAK\_YMD) OVER(PARTITION BY JUMIN\_NO ORDER BY HAKBUN)-1, '99991212') AS NEXT FROM STUDENT B) BB

WHERE AA.JUMIN\_NO = BB.JUMIN\_NO

AND AA.MON BETWEEN BB.IPHAK\_YMD AND BB.NEXT

ORDER BY YEAR;

2. 로또 당첨 번호가 생성되는 Function을 구하시요!!!

예를 들어 해당 Function을 수행하면 5, 10, 11, 28, 41, 43 + 7 이런식으로 매번 다른 값이 나오도록 하는 Function을 작성하시요, (45 숫자로만 데이터 나오게 // 뽑은 숫자는 또 안나 옴// 앞 6자리 오름차순)

**SQL :**

CREATE OR REPLACE FUNCTION FUNC\_LOTTO\_NUMBER

RETURN VARCHAR2

IS

L\_LANDOM\_NUM NUMBER;

L\_RESULT VARCHAR2(100) := NULL;

L\_TEMP NUMBER :=0;

L\_TEMP\_RES NUMBER ;

L\_CNT NUMBER :=1;

TYPE NUMBER\_LIST IS VARRAY(7) OF INTEGER;

L\_NUMBER\_LIST NUMBER\_LIST;

BEGIN

L\_NUMBER\_LIST := NUMBER\_LIST(0,0,0,0,0,0,0);

LOOP

EXIT WHEN L\_CNT = 8;

SELECT TRUNC(DBMS\_RANDOM.VALUE(1,45),0) INTO L\_LANDOM\_NUM FROM DUAL;

L\_TEMP :=0;

FOR I IN 1..7

LOOP

IF L\_NUMBER\_LIST(I) = L\_LANDOM\_NUM THEN

L\_TEMP := 1;

END IF;

END LOOP;

IF L\_TEMP != 1 THEN

L\_NUMBER\_LIST(L\_CNT) := L\_LANDOM\_NUM;

L\_CNT := L\_CNT+1;

END IF;

END LOOP;

FOR I IN 1..7

LOOP

FOR J IN 2..6

LOOP

IF L\_NUMBER\_LIST(J-1) > L\_NUMBER\_LIST(J) THEN

L\_TEMP\_RES := L\_NUMBER\_LIST(J-1);

L\_NUMBER\_LIST(J-1) := L\_NUMBER\_LIST(J);

L\_NUMBER\_LIST(J) := L\_TEMP\_RES;

END IF;

END LOOP;

END LOOP;

FOR I IN 1..7

LOOP

IF I = 7 THEN

L\_RESULT := L\_RESULT || ' + ' || L\_NUMBER\_LIST(I);

ELSIF I = 1 THEN

L\_RESULT := L\_NUMBER\_LIST(I);

ELSE

L\_RESULT := L\_RESULT || ', ' || L\_NUMBER\_LIST(I);

END IF;

END LOOP;

RETURN L\_RESULT;

END FUNC\_LOTTO\_NUMBER;