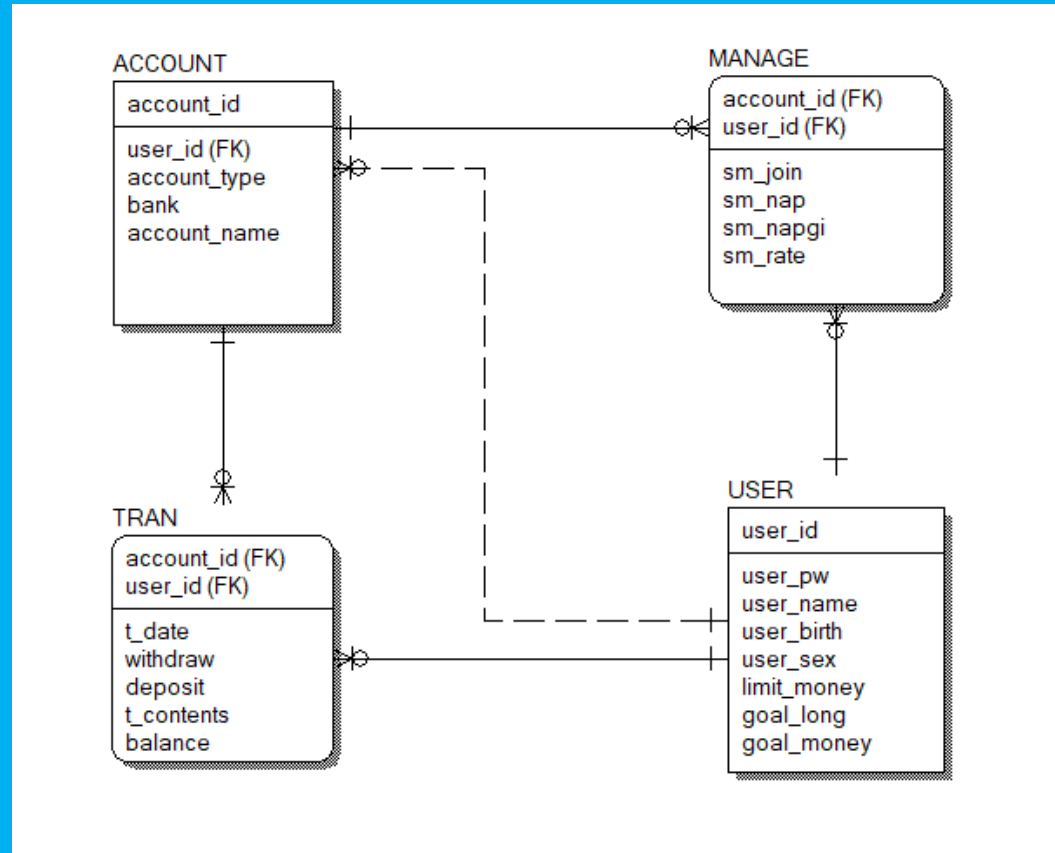연합**군**

가계부

1.
ER MODEL
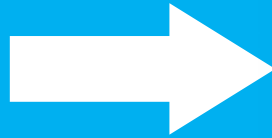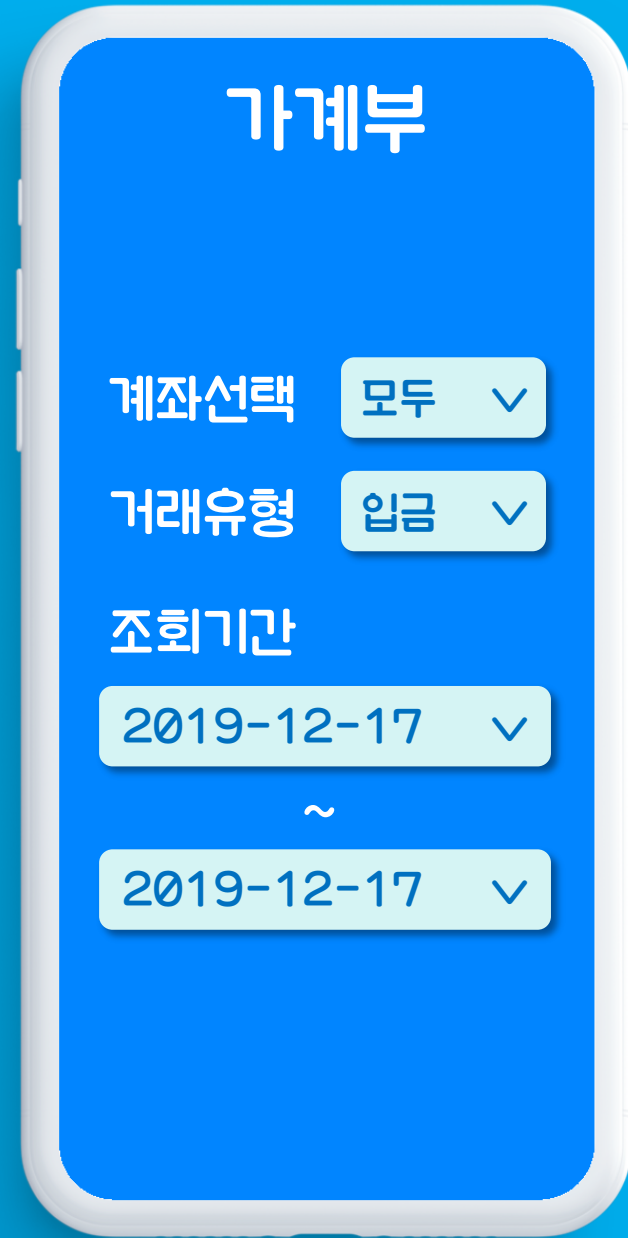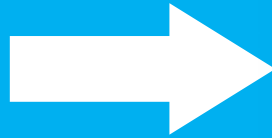
E. R MODEL

User : <u>user_id</u>, user_pw, user_name, user_birth, user_sex, limit_money, goal_long, goal_money
Account : <u>account_id</u>, user_id(FK), account_type, bank, account_name
Tran : account_id(FK), user_id(FK), t_date, withdraw, deposit, t_contents, balance
Manage : account_id(FK), user_id(FK), sm_join, sm_nap, sm_napgi, sm_rate

연합군
가계부

가계부

잔액조회

지출통계

목표관리

가계부

계좌선택 모두 ▼

거래유형 잔액 ▼

조회기간

2019-12-18 ▼

~

2019-12-18 ▼

SQL(계좌별 잔액 조회)

```sql
select ACCOUNT.account_id,ACCOUNT.user_id,balance
from tran,account
where (tran.ACCOUNT_id, t_date) in
(select account_id,max(t_date) from tran group by account_id)
AND tran.account_id = ACCOUNT.account_id
and account.user_id = '이동주1';
```

결과_출력

	ACCOUNT_ID	USER_ID	BALANCE
1	290-040981-02-011	이동주1	3493
2	110-333-749438	이동주1	21493
3	123-123-123456	이동주1	2400000

가계부

계좌선택 [신한   ∨]
거래유형 [모두   ∨]

조회기간

[2019-09-16   ∨]

~

[2019-09-17   ∨]

SQL_(특정기간+ 특정계좌)

```
select * from tran
where t_date >= to_date('190915', 'YY-MM-DD')
and t_date <= to_date('190917', 'YY-MM-DD')
and user_id = '이동주1'
and account_id = '110-333-749438'
order by t_date;
```

결과_출력

	ACCOUNT_ID	USER_ID	T_DATE	WITHDRAW	DEPOSIT	T_CONTENTS	BALANCE
1	110-333-749438	이동주1	19/09/16	7500	0	한국맥도날드(	43103
2	110-333-749438	이동주1	19/09/16	50000	0	kakao머니	50603
3	110-333-749438	이동주1	19/09/16	0	100000	(null)	100603
4	110-333-749438	이동주1	19/09/17	1500	0	CU 화정별빛점	41603
5	110-333-749438	이동주1	19/09/17	3000	0	세븐일레븐 화	38603

가계부

계좌선택 [모두 ∨]

거래유형 [모두 ∨]

조회기간

[2019-09-16 ∨]

~

[2019-09-17 ∨]

SQL_(특정기간+ 모든계좌)

```sql
select * from tran
where t_date >= to_date('190915', 'YY-MM-DD')
and t_date <= to_date('190917', 'YY-MM-DD')
and user_id = '이동주1'
order by t_date;
```

결과_출력

	ACCOUNT_ID	USER_ID	T_DATE	WITHDRAW	DEPOSIT	T_CONTENTS	BALANCE
1	290-040981-02-011	이동주1	19/09/15	0	1	2019년결산	1479
2	110-333-749438	이동주1	19/09/16	50000	0	kakao머니	50603
3	110-333-749438	이동주1	19/09/16	0	100000	(null)	100603
4	110-333-749438	이동주1	19/09/16	7500	0	한국맥도날드(	43103
5	110-333-749438	이동주1	19/09/17	3000	0	세븐일레븐 화	38603
6	110-333-749438	이동주1	19/09/17	1500	0	CU 화정별빛점	41603

가계부

계좌선택 [우리 ∨]

거래유형 [입금 ∨]

조회기간

[2018-12-21 ∨]

~

[2019-11-01 ∨]

SQL_(입금정보만 출력)

```sql
SELECT account_id, user_id, t_date, deposit,
t_contents, balance
FROM tran
where deposit != 0
and user_id = 'user01';
```

결과_출력

	ACCOUNT_ID	USER_ID	T_DATE	DEPOSIT	T_CONTENTS	BALANCE
1	1001-111-123456	user01	19/07/30	1500000	적금	4206762
2	1001-111-123456	user01	19/08/30	1500000	적금	3731742
3	1001-111-123456	user01	19/10/01	1175	체크입금	1874257
4	1001-111-123456	user01	19/10/08	3600	출금취소	1683987
5	1001-111-123456	user01	19/10/10	15200	출금취소	1661587
6	1001-111-123456	user01	19/11/01	1060	체크입금	927217
7	1001-111-123456	user01	18/12/21	2650	우정사업본부우체국	6420034
8	1001-111-123456	user01	18/12/26	1700000	적금	7964064
9	1001-111-123456	user01	19/01/28	1700000	적금	6725596
10	1001-111-123456	user01	19/02/01	843	체크입금	6570909

가계부

계좌선택 우리 ⌄
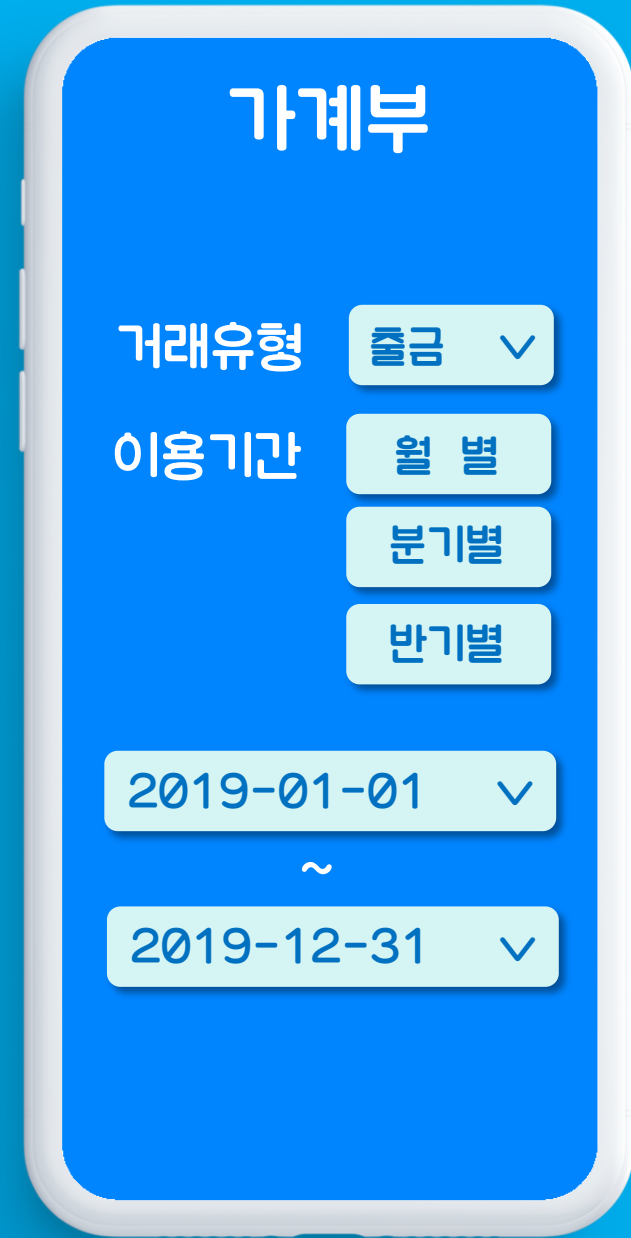
거래유형 출금 ⌄

조회기간

2019-07-16 ⌄

~

2019-07-20 ⌄

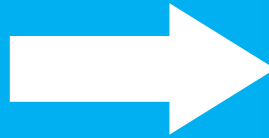## SQL_(출금정보만 출력)

```sql
SELECT account_id, user_id, t_date, withdraw,
t_contents, balance
FROM tran
where withdraw != 0
and user_id = 'user01';
```

결과_출력

	ACCOUNT_ID	USER_ID	T_DATE	WITHDRAW	T_CONTENTS	BALANCE
1	1001-111-123456	user01	19/07/16	3500	주산들푸드	4619562
2	1001-111-123456	user01	19/07/16	2900	주더드림홀딩스	4616662
3	1001-111-123456	user01	19/07/17	9500	하꼬야쿄엑스점	4607162
4	1001-111-123456	user01	19/07/18	800	동아오츠카	4606362
5	1001-111-123456	user01	19/07/18	3500	주산들푸드	4602862
6	1001-111-123456	user01	19/07/18	4500	주산들푸드	4598362
7	1001-111-123456	user01	19/07/19	2800	주산들푸드	4595562
8	1001-111-123456	user01	19/07/19	5000	아이센스ＰＣ방	4590562
9	1001-111-123456	user01	19/07/19	23000	부암동치킨	4567562
10	1001-111-123456	user01	19/07/20	2300	미니스톱숙대입구점	4565262

가계부

거래유형
출금 ∨

이용기간
월 별
분기별
반기별

2019-01-01 ∨
~
2019-12-31 ∨

SQL_(분기별 지출총액)

```sql
select to_char(t_date, 'Q') as Q,
sum(withdraw)
from tran
where user_id = 'user01'
group by to_char(t_date, 'Q')
order by Q;
```

결과_출력

	Q	SUM(WITHDRAW)
1	1	38715005
2	2	33446949
3	3	6441410
4	4	3078408

가계부

거래유형 `출금 ∨`
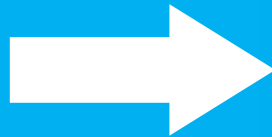
이용기간 `월 별`
`분기별`
`반기별`

`2019-01-01 ∨`
`~`
`2019-12-31 ∨`

SQL_(반기별 지출총액)

```sql
select ceil(to_char(t_date, 'Q')/2) as Q,
sum(withdraw)
from tran
where user_id = 'user01'
group by ceil(to_char(t_date, 'Q')/2)
order by Q;
```

결과_출력

	Q	SUM(WITHD...
1	1	72161954
2	2	9519818

가계부

저축상품 관리

지출한도

저축목표

➡️

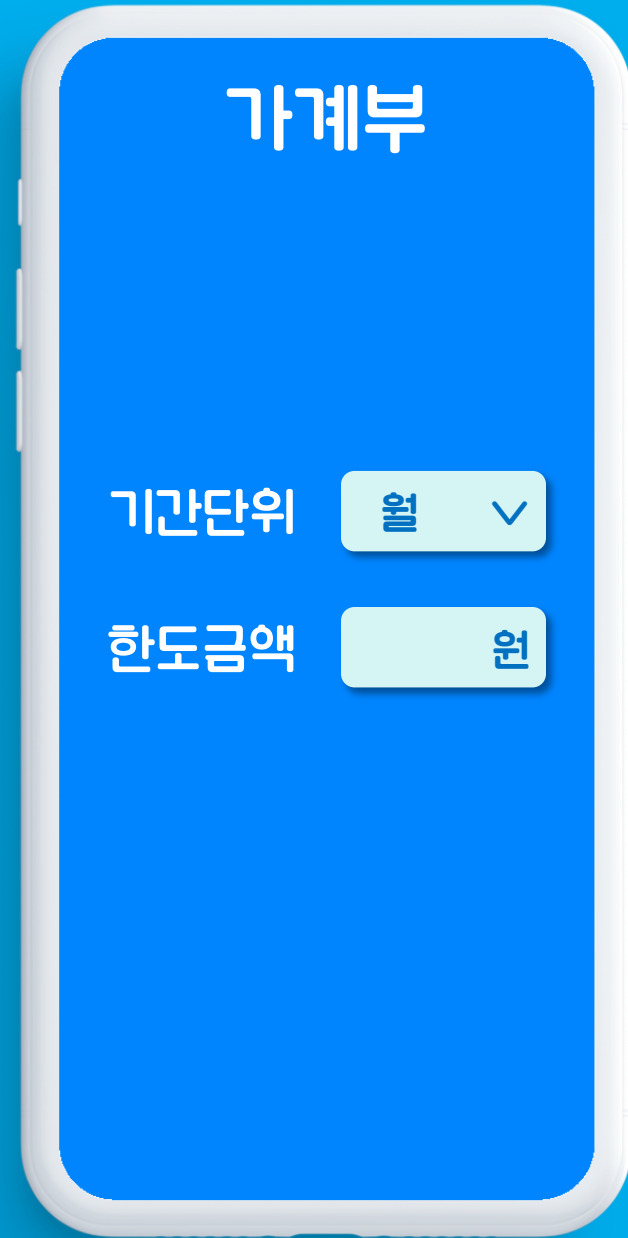# 가계부

계좌선택　신한　∨

납입금액　　　원

납입기간　　개월

이자율　　　　%

가계부

SQL

```sql
SELECT
account_id,
user_id,
sm_nap*sm_napgi+(sm_nap*sm_rate*sm_napgi*(sm_napgi+1)/24) AS 만기상환금,
sm_nap*(SELECT TRUNC(MONTHS_BETWEEN(SYSDATE, sm_join)+1)
FROM MANAGE
WHERE user_id LIKE '이동주1') AS 현재까지_납입원금,
(sm_nap*sm_rate*(SELECT TRUNC(MONTHS_BETWEEN(SYSDATE, sm_join))
FROM MANAGE
WHERE user_id LIKE '이동주1')*((SELECT TRUNC(MONTHS_BETWEEN(SYSDATE, sm_join))
FROM MANAGE
WHERE user_id LIKE '이동주1')+1)/24) AS 현재까지_누적이자
FROM MANAGE;
where user_id = '이동주1';
```
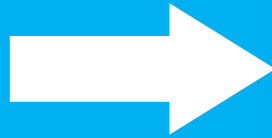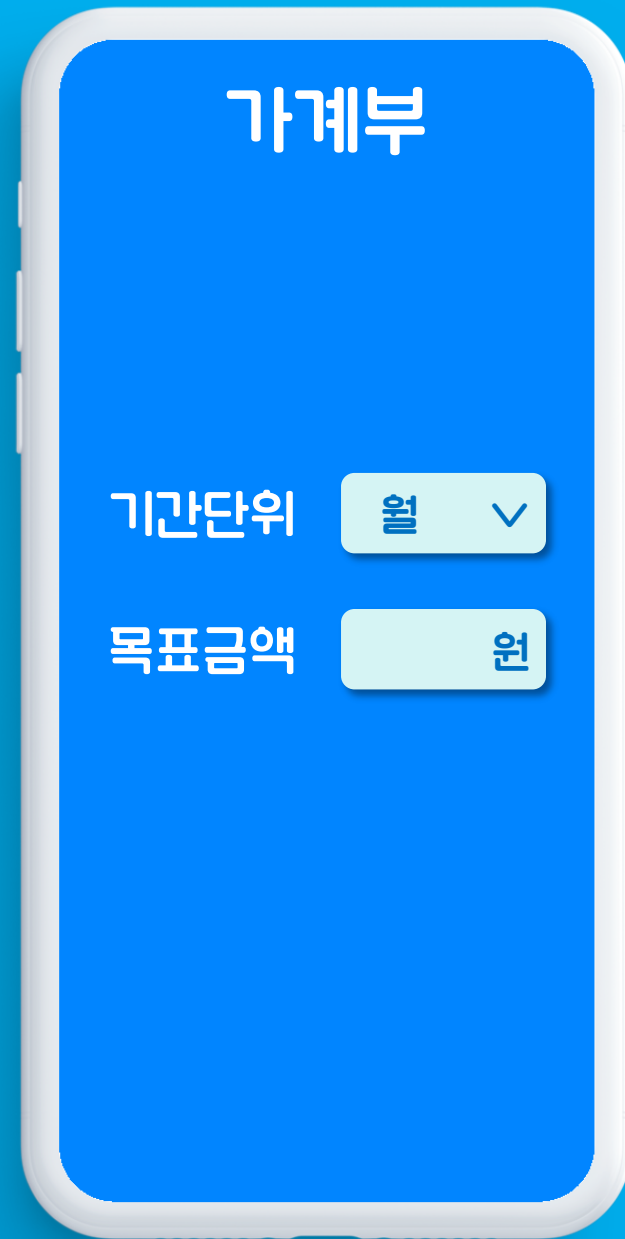
결과_출력

	ACCOUNT_ID	USER_ID	만기상환금	현재까지_납입원금	현재까지_누적이자
▶ 1	123-123-123456	이동주1	3877500	2400000	115000
2	111-111-100001	user01	10384000	4800000	184000

계좌선택 신한 ∨

납입금액 원

납입기간 개월

이자율 %

가계부

기간단위   월   ⌄

한도금액   원

SQL

결과_출력

가계부

기간단위 월 ∨

목표금액 원

SQL

```sql
CREATE VIEW gigan AS
SELECT user1.user_id,goal_money AS 목표금액,balance AS 잔액,(balance/goal_money)*100 AS 진행률
FROM balance,user1
WHERE balance.user_id = user1.user_id AND goal_money IS NOT NULL;

CREATE VIEW nama as
SELECT user_id,TRUNC(MONTHS_BETWEEN( goal_long, SYSDATE))"잔여개월",TRUNC(MONTHS_BETWEEN( goal_long, SYSDATE)*30.5)"잔여일"
FROM user1;

SELECT nama.user_id,목표금액,잔액,잔여개월,ROUND(진행률,2)||'%' AS 진행률
FROM gigan,nama
WHERE nama.user_id = gigan.user_id
```

결과_출력

	USER_ID	목표금액	잔액	잔여개월	진행률
▶ 1	user01	30000000	425857	12	1.42%
2	dummy001	100000000	20000000	6	20%
3	user01	30000000	5000000	12	16.67%