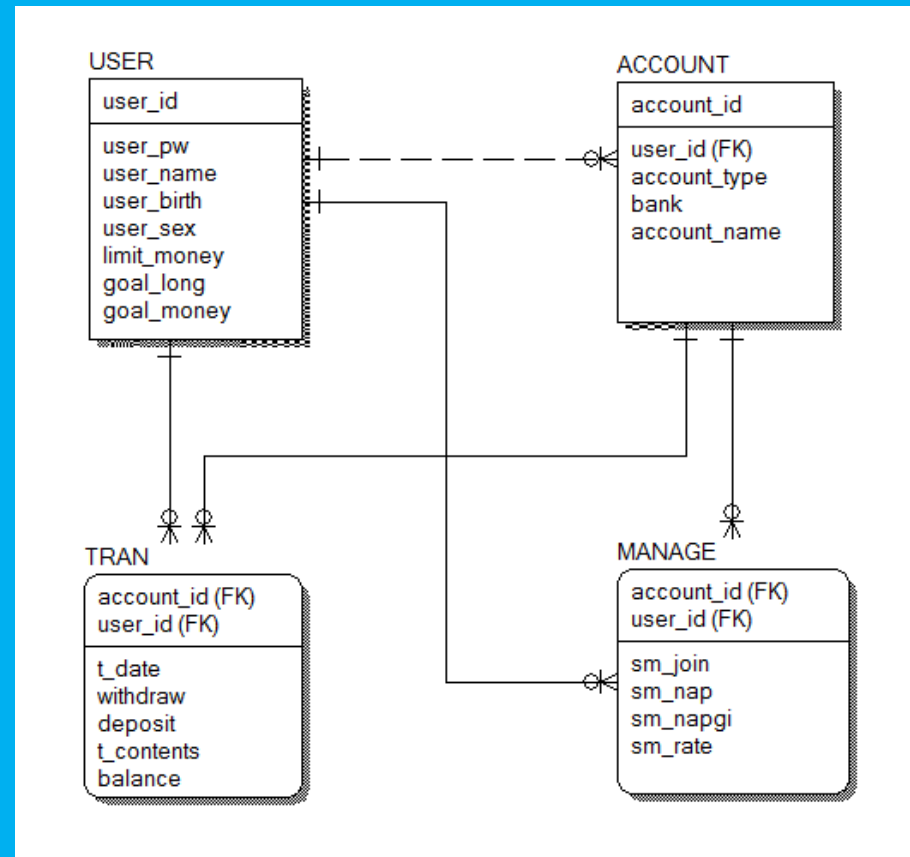


연합
군
가계부



E. R MODEL



User : user_id, user_pw, user_name, user_birth, user_sex, limit_money, goal_long, goal_money

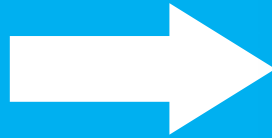
Account : account_id, user_id(FK), account_type, bank, account_name

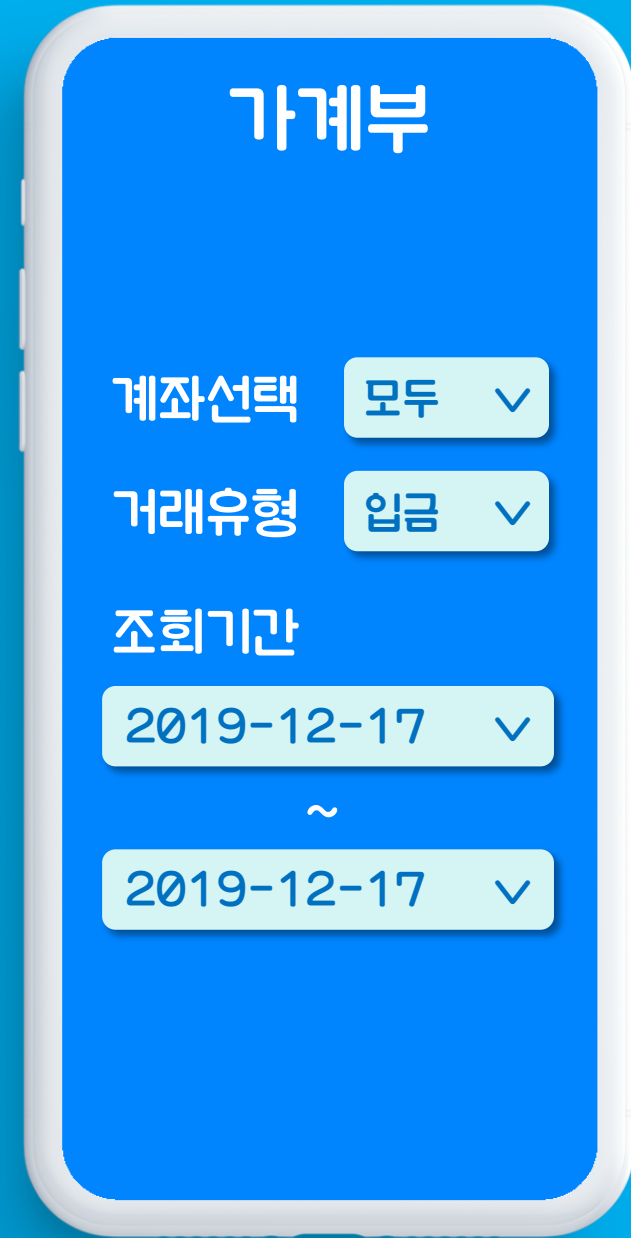
Tran : account_id(FK), user_id(FK), t_date, withdraw, deposit, t_contents, balance

Manage : account_id(FK), user_id(FK), sm_join, sm_nap, sm_napgi, sm_rate

1

계좌조회





가계부

계좌선택

모두



거래유형

잔액



조회기간

2019-12-18



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2019-12-18



SQL(계좌별 잔액 조회)

```
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



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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



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2019-09-17



SQL_(특정기간+ 모든계좌)

```
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



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2019-11-01



SQL_(입금정보만 출력)

```
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



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2019-07-20



SQL_(출금정보만 출력)

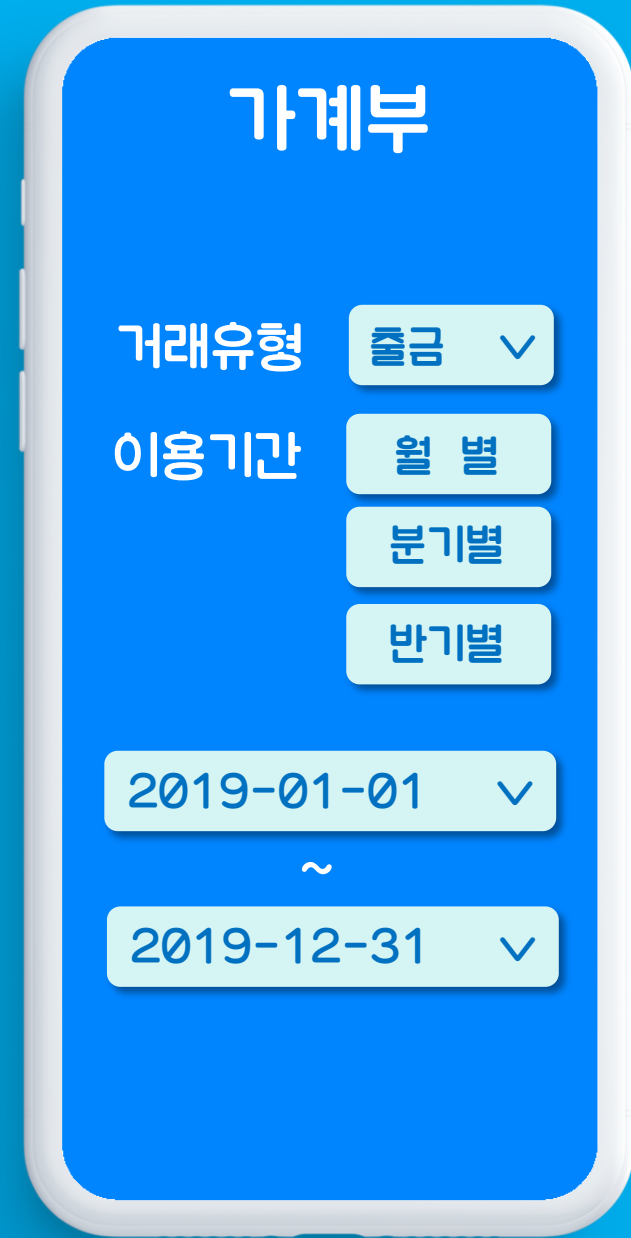
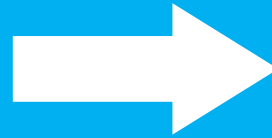
```
SELECT account_id, user_id, t_date, withdraw,  
t_contents, balance  
FROM tran  
where withdraw != 0  
and user_id = 'user01';
```

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 | 하꼬야코엑스점 | 4607162 |
| 4 | 1001-111-123456 | user01 | 19/07/18 | 800 | 동마오츠카 | 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 | 아이센스P C방 | 4590562 |
| 9 | 1001-111-123456 | user01 | 19/07/19 | 23000 | 부암동치킨 | 4567562 |
| 10 | 1001-111-123456 | user01 | 19/07/20 | 2300 | 미니스톱속대입구점 | 4565262 |

2

지출통계



가계부

거래유형

출금 ▼

이용기간

월 별

분기별

반기별

2019-01-01 ▼

~

2019-12-31 ▼

SQL_(분기별 지출총액)

```
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 ▼

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2019-12-31 ▼

SQL_(반기별 지출총액)

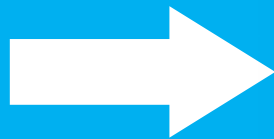
```
select ceil(to_char(t_date, 'Q')/2) as Q,  
sum(withdraw)  
from tran  
where user_id = 'user01'  
group by ceil(to_char(t_date, 'Q')/2)  
order by Q;
```

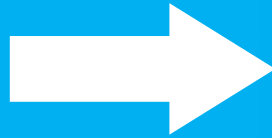
결과_출력

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

3

목표관리





가계부

계좌선택

신한



납입금액

원

납입기간

개월

이자율

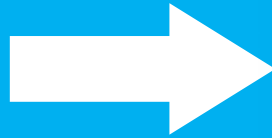
%

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 |



가계부

기간단위

월



한도금액

400만원

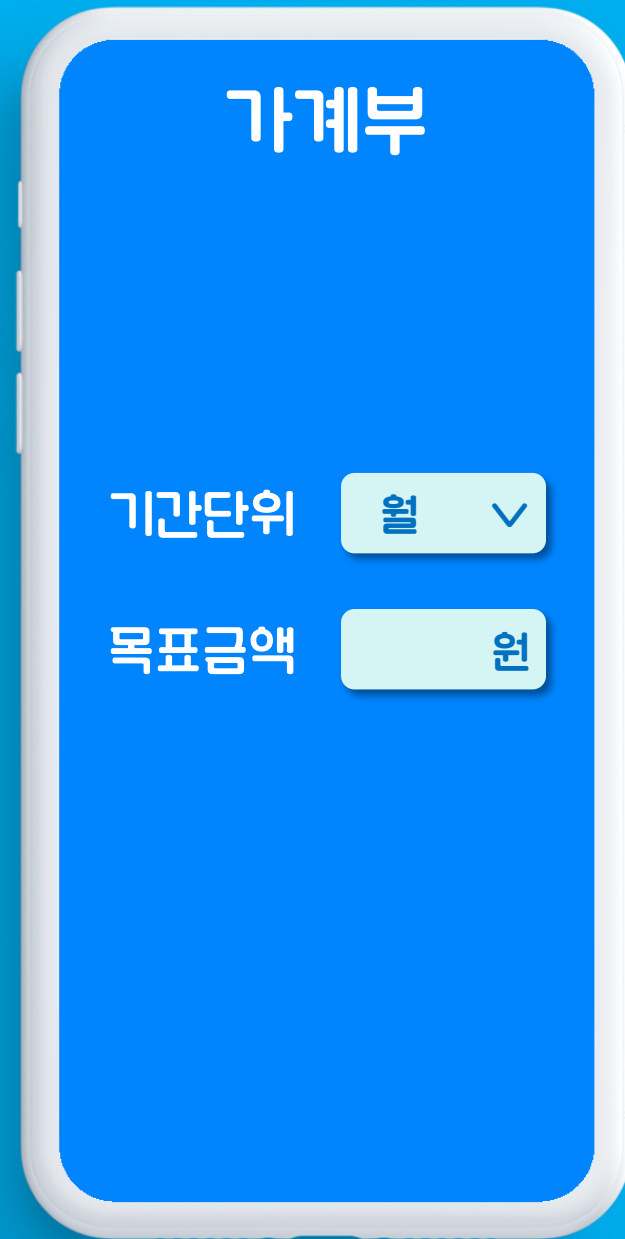
SQL

```
CREATE OR REPLACE VIEW view1 AS
SELECT limit_money, user_name, account_id, t_date, withdraw, deposit, t_contents, balance
FROM tran, user1
WHERE user1.user_id = tran.user_id;
```

```
SELECT user_name AS 이름, TO_CHAR(t_date, 'YYYY-MM') AS 년월, SUM(withdraw) AS 지출금액, limit_money AS 지출한도 , limit_money-SUM(withdraw) AS 남은한도
FROM view1
GROUP BY user_name, TO_CHAR(t_date, 'YYYY-MM'), limit_money
ORDER BY user_name, TO_CHAR(t_date, 'YYYY-MM');
```

결과_출력

| | 이름 | 년월 | 지출금액 | 지출한도 | 남은한도 |
|----|-----|---------|----------|---------|-----------|
| 35 | 이용자 | 2018-10 | 0 | 4000000 | 4000000 |
| 36 | 이용자 | 2018-11 | 0 | 4000000 | 4000000 |
| 37 | 이용자 | 2018-12 | 658960 | 4000000 | 3341040 |
| 38 | 이용자 | 2019-01 | 2660198 | 4000000 | 1339802 |
| 39 | 이용자 | 2019-02 | 2860537 | 4000000 | 1139463 |
| 40 | 이용자 | 2019-03 | 33194270 | 4000000 | -29194270 |
| 41 | 이용자 | 2019-04 | 14269921 | 4000000 | -10269921 |
| 42 | 이용자 | 2019-05 | 17060470 | 4000000 | -13060470 |
| 43 | 이용자 | 2019-06 | 2116558 | 4000000 | 1883442 |
| 44 | 이용자 | 2019-07 | 2619630 | 4000000 | 1380370 |
| 45 | 이용자 | 2019-08 | 1985620 | 4000000 | 2014380 |
| 46 | 이용자 | 2019-09 | 1836160 | 4000000 | 2163840 |
| 47 | 이용자 | 2019-10 | 966900 | 4000000 | 3033100 |
| 48 | 이용자 | 2019-11 | 1110380 | 4000000 | 2889620 |
| 49 | 이용자 | 2019-12 | 342168 | 4000000 | 3657832 |



가계부

기간단위

년



목표금액

년

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% |