04. 데이터베이스 구현수행평가

SQL 테이블 생성부터 조회까지

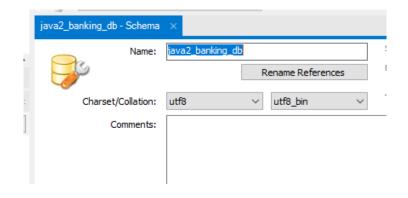
날짜: 2022/10/6

이름 : 조주영

INDEX

- 1 은행 업무 ERD 작성
- 2 테이블 생성
- 3 테이블 데이터 입력
- 4 SQL 데이터 조회

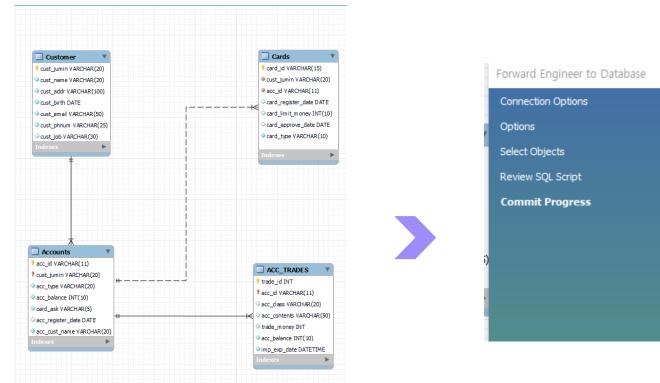
1. 은행업무 ERD 작성



데이터베이스명



2. 테이블 생성



ERD 관계설정

Connection Options
Options
Select Objects
Review SQL Script
Commit Progress

Commit Progress

Forward Engineering Progress

The following tasks will now be executed. Please monitor the execution. Press Show Logs to see the execution logs.

Connect to DBMS

Execute Forward Engineered Script

Read Back Changes Made by Server

Save Synchronization State

Forward Engineer Finished Successfully

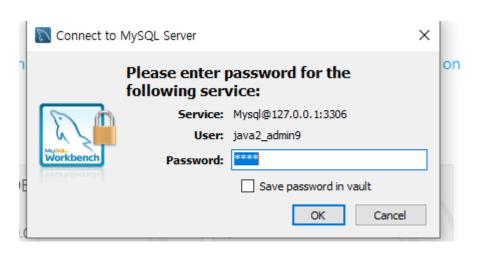
Forward Engineer... 이용하여 데이터베이스 생성

```
Query 1 × bank_account user3

1 • create user 'java2_admin9'@'%' identified by '1234';
2 • grant all privileges on `java2_banking_db`.* to 'java2_admin9'@'%';
3 • flush privileges;
```

User 생성

커넥션 생성



커넥션 입장

Customer

Re	esult Grid 🔡 🔌	Filter Rows:		Edit:	🚣 🖶 🖶 Exp	ort/Import: 📳 🎚	Wrap Cel
	cust_jumin	cust_name	cust_addr	cust_birth	cust_email	cust_phnum	cust_job
•	750611-1234567	이정재	서울	1975-06-11	leejj@gmail.com	010-1102-7506	배우
	760121-1234567	정우성	서울	1976-01-21	wsj@gmail.com	010-1101-7601	배우
	721128-1234567	유재석	부산	1972-11-28	you@gmail.com	010-6101-7211	개그맨
	920907-1234567	강호동	부산	1992-09-07	kang@gmail.com	010-7103-9209	개그맨
	660912-1234567	원빈	대전	1966-09-12	one@daum.net	010-2104-6609	배우
	790413-1234567	이나영	대전	1979-04-13	lee@naver.com	010-2101-7904	회사원
	890530-1234567	전지현	대전	1989-05-30	jjh@naver.com	010-1103-8905	자영업
	651021-1234567	김연아	대구	1965-10-21	yuna@daum.net	010-5101-6510	운동선수
	790728-1234567	장동건	대구	1979-07-28	jang@naver.com	010-3101-7907	배우
	840615-1234567	고소영	대구	1976-01-21	goso@daum.net	010-1101-7601	배우
	770314-1234567	강동원	광주	1977-03-14	dong@naver.com	010-8101-7703	배우
	891209-1234567	조인성	광주	1989-12-09	join@gmail.com	010-7104-8912	배우
	NULL	NULL	NULL	NULL	NULL	NULL	NULL

```
insert into `Customer` values ('760121-1234567', '정우성', '서울', '1976-01-21', 'wsj@gmail.com', '010-1101-7601', '배우');

insert into `Customer` values ('750611-1234567', '이정재', '서울', '1975-06-11', 'leejj@gmail.com', '010-1102-7506', '배우');

insert into `Customer` values ('890530-1234567', '전지현', '대전', '1989-05-30', 'jjh@naver.com', '010-1103-8905', '자영업');

insert into `Customer` values ('790413-1234567', '이나영', '대전', '1979-04-13', 'lee@naver.com', '010-2101-7904', '회사원');

insert into `Customer` values ('660912-1234567', '원빈', '대전', '1979-07-28', 'jang@naver.com', '010-2104-6609', '배우');

insert into `Customer` values ('790728-1234567', '장동건', '대구', '1979-07-28', 'jang@naver.com', '010-3101-7907', '배우');

insert into `Customer` values ('840615-1234567', '고소영', '대구', '1976-01-21', 'goso@daum.net', '010-1101-7601', '배우');

insert into `Customer` values ('651021-1234567', '김연아', '대구', '1965-10-21', 'yuna@daum.net', '010-5101-6510', '윤동선수');

insert into `Customer` values ('721128-1234567', '공재석', '부산', '1972-11-28', 'you@gmail.com', '010-6101-7211', '개그맨');

insert into `Customer` values ('891209-1234567', '강윤동', '부산', '1992-09-07', 'kang@gmail.com', '010-7103-9209', '개그맨');

insert into `Customer` values ('891209-1234567', '조윤영', '광주', '1989-12-09', 'join@gmail.com', '010-7104-8912', '배우');

insert into `Customer` values ('770314-1234567', '강윤영', '광주', '1977-03-14', 'dong@naver.com', '010-8101-7703', '배우');
```

Cards

Re	Result Grid 🔢 \infty Filter Rows: Edit: 🕍 🐯 🖶 Export/Import: 📳 🐻 Wrap Cell Content: 🏗							
	card_id	cust_jumin	acc_id	card_register_date	card_limit_money	card_approve_date	card_type	
•	1011-1001-1001	760121-1234567	101-11-1001	2020-01-21	1000000	2020-02-10	check	
	1011-1001-1002	890530-1234567	101-11-1002	2020-06-11	3000000	2020-06-15	check	
	1011-1001-1003	790413-1234567	101-11-1003	2020-05-30	5000000	2020-06-25	credit	
	1011-1001-1004	660912-1234567	101-11-1004	2020-04-13	1000000	2020-05-10	credit	
	1011-1001-1005	840615-1234567	101-11-1005	2020-09-12	1500000	2020-10-10	check	
	1011-1001-1006	651021-1234567	101-11-1006	2020-07-28	10000000	2020-08-15	check	
	1011-1001-1007	721128-1234567	101-11-1007	2020-06-15	2000000	2020-07-25	credit	
	1011-1001-1008	920907-1234567	101-11-1008	2020-10-21	5000000	2020-11-15	credit	
	1011-1001-1009	891209-1234567	101-11-1009	2020-11-28	1000000	2020-12-10	check	
	1011-1001-1010	770314-1234567	101-11-1010	2020-09-07	1000000	2020-10-10	credit	

```
24
       insert into `Cards` values ('1011-1001-1001', '760121-1234567', '101-11-1001', '2020-01-21', 1000000, '2020-02-10', 'check');
       insert into `Cards` values ('1011-1001-1002', '890530-1234567', '101-11-1002', '2020-06-11', 3000000, '2020-06-15', 'check');
26 •
27 •
       insert into `Cards` values ('1011-1001-1003', '790413-1234567', '101-11-1003', '2020-05-30', 5000000, '2020-06-25', 'credit');
       insert into `Cards` values ('1011-1001-1004', '660912-1234567', '101-11-1004', '2020-04-13', 1000000, '2020-05-10', 'credit');
28 •
       insert into `Cards` values ('1011-1001-1005', '840615-1234567', '101-11-1005', '2020-09-12', 1500000, '2020-10-10', 'check');
30 •
       insert into `Cards` values ('1011-1001-1006', '651021-1234567', '101-11-1006', '2020-07-28', 10000000, '2020-08-15', 'check');
       insert into `Cards` values ('1011-1001-1007', '721128-1234567', '101-11-1007', '2020-06-15', 2000000, '2020-07-25', 'credit');
31 •
32 •
       insert into `Cards` values ('1011-1001-1008', '920907-1234567', '101-11-1008', '2020-10-21', 5000000, '2020-11-15', 'credit');
33 •
       insert into `Cards` values ('1011-1001-1009', '891209-1234567', '101-11-1009', '2020-11-28', 1000000, '2020-12-10', 'check');
       insert into `Cards` values ('1011-1001-1010', '770314-1234567', '101-11-1010', '2020-09-07', 1000000, '2020-10-10', 'credit');
```

10

2.4

Accounts

Re	esult Grid	N Filter Rows:		Edit: 🔏	₽	Export/Import:	Wrap Cell Co
	acc_id	cust_jumin	acc_type	acc_balance	card_ask	acc_register_date	acc_cust_name
•	101-11-1001	760121-1234567	자유입출금	4160000	Υ	2020-01-21	정우성
	101-11-1002	890530-1234567	자유입출금	376000	Υ	2020-06-11	전지현
	101-11-1003	790413-1234567	자유입출금	1200000	Υ	2020-05-30	이나영
	101-11-1004	660912-1234567	자유입출금	1000000	Υ	2020-04-13	원빈
	101-11-1005	840615-1234567	자유입출금	820000	Υ	2020-09-12	고소영
	101-11-1006	651021-1234567	자유입출금	3520000	Υ	2020-07-28	김연아
	101-11-1007	721128-1234567	자유입출금	7620500	Υ	2020-06-15	유재석
	101-11-1008	920907-1234567	자유입출금	3400000	Υ	2020-10-21	강호동
	101-11-1009	891209-1234567	자유입출금	1763000	Υ	2020-11-28	조인성
	101-11-1010	770314-1234567	자유입출금	1080000	Υ	2020-09-07	강동원
	NULL	NULL	NULL	NULL	NULL	NULL	NULL

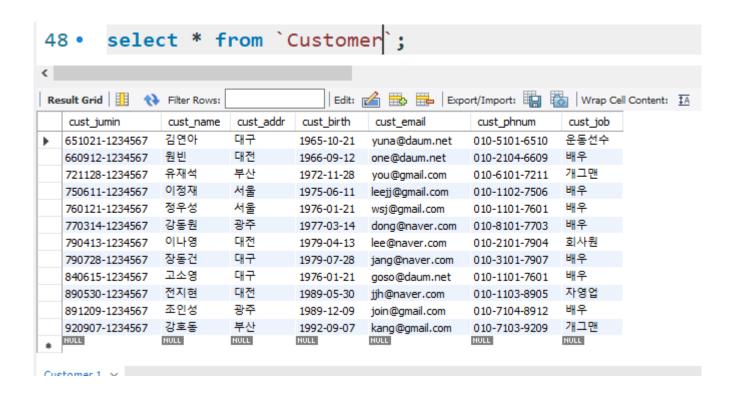
```
insert into `Accounts` values ('101-11-1001', '760121-1234567', '자유입출금', 4160000, 'Y', '2020-01-21', '정우성');
       insert into `Accounts` values ('101-11-1002', '890530-1234567', '자유입출금', 376000, 'Y', '2020-06-11', '전지현');
15 •
       insert into `Accounts` values ('101-11-1003', '790413-1234567', '자유입출금', 1200000, 'Y', '2020-05-30', '이나영');
16 •
      insert into `Accounts` values ('101-11-1004', '660912-1234567', '자유입출금', 1000000, 'Y', '2020-04-13', '원빈');
17 •
       insert into `Accounts` values ('101-11-1005', '840615-1234567', '자유입출금', 820000, 'Y', '2020-09-12', '고소영');
18 •
19 •
       insert into `Accounts` values ('101-11-1006', '651021-1234567', '자유입출금', 3520000, 'Y', '2020-07-28', '김연아');
       insert into `Accounts` values ('101-11-1007', '721128-1234567', '자유입출금', 7620500, 'Y', '2020-06-15', '유재석');
20 •
       insert into `Accounts` values ('101-11-1008', '920907-1234567', '자유입출금', 3400000, 'Y', '2020-10-21', '강호동');
21 •
       insert into `Accounts` values ('101-11-1009', '891209-1234567', '자유입출금', 1763000, 'Y', '2020-11-28', '조인성');
22 •
       insert into `Accounts` values ('101-11-1010', '770314-1234567', '자유입출금', 1080000, 'Y', '2020-09-07', '강동원');
23 •
```

Re	Result Grid 🔢 🚷 Filter Rows: Edit: 🕍 🖶 Export/Import: 🖫 🐻 Wrap Ce								
	trade_id	acc_id	acc_class	acc_contents	trade_money	acc_balance	imp_exp_date		
•	1	101-11-1001	입금	2월 정기급여	3500000	4160000	2020-02-10 12:36:12		
	2	101-11-1003	출금	ATM 출금	300000	1200000	2020-02-10 12:37:21		
	3	101-11-1008	입금	2월 급여	2800000	3200000	2020-02-10 12:38:21		
	4	101-11-1006	출금	2월 공과금	116200	3120000	2020-02-10 12:39:21		
	5	101-11-1005	출금	ATM 출금	50000	820000	2020-02-10 12:40:21		
	6	101-11-1006	입금	홍길동 이체	400000	3520000	2020-02-10 12:41:21		
	7	101-11-1007	출금	2월 관리비	145000	7620500	2020-02-10 12:42:21		
	8	101-11-1008	입금	홍길동 입금	200000	3400000	2020-02-10 12:43:21		
	9	101-11-1009	입금	연말정산 환급	112000	1763000	2020-02-10 12:44:21		
	10	101-11-1010	출금	ATM 출금	30000	1080000	2020-02-10 12:45:21		
	NULL	NIIII	NULL	NULL	NULL	NULL	NULL		

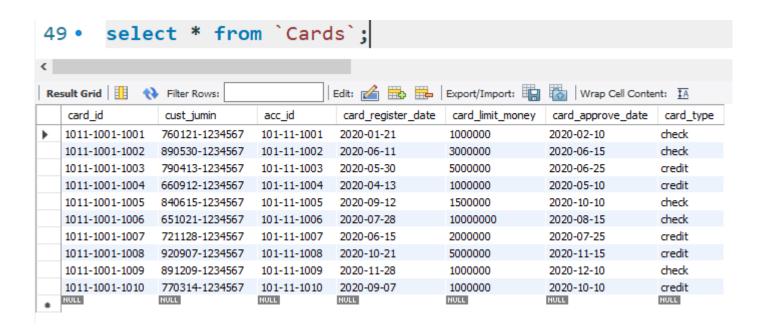
Acc_Trades

```
insert into `acc trades` (`acc id`, `acc class`, `acc contents`, `trade money`, `acc balance`, `imp exp date`)
       values ('101-11-1001', '입금', '2월 정기급여', 3500000, 4160000, "2020-02-10 12:36:12");
       insert into `acc_trades` (`acc_id`, `acc_class`, `acc_contents`, `trade_money`, `acc_balance`, `imp_exp_date`)
       values ('101-11-1003', '출금', 'ATM 출금', 300000, 1200000, "2020-02-10 12:37:21");
       insert into `acc_trades` (`acc_id`, `acc_class`, `acc_contents`, `trade_money`, `acc_balance`, `imp_exp_date`)
       values ('101-11-1008', '입금', '2월 급여', 2800000, 3200000, "2020-02-10 12:38:21");
       insert into `acc_trades` (`acc_id`, `acc_class`, `acc_contents`, `trade_money`, `acc_balance`, `imp_exp_date`)
       values ('101-11-1006', '출금', '2월 공과금', 116200, 3120000, "2020-02-10 12:39:21");
       insert into `acc_trades` (`acc_id`, `acc_class`, `acc_contents`, `trade_money`, `acc_balance`, `imp_exp_date`)
       values ('101-11-1005', '출금', 'ATM 출금', 50000, 820000, "2020-02-10 12:40:21");
       insert into 'acc_trades' ('acc_id', 'acc_class', 'acc_contents', 'trade_money', 'acc_balance', 'imp_exp_date')
       values ('101-11-1006', '입금', '홍길동 이제', 400000, 3520000, "2020-02-10 12:41:21");
       insert into `acc_trades` (`acc_id`, `acc_class`, `acc_contents`, `trade_money`, `acc_balance`, `imp_exp_date`)
       values ('101-11-1007', '출금', '2월 관리비', 145000, 7620500, "2020-02-10 12:42:21");
       insert into `acc trades` (`acc id`, `acc class`, `acc contents`, `trade money`, `acc balance`, `imp exp date`)
       values ('101-11-1008', '입금', '홍길통 입금', 200000, 3400000, "2020-02-10 12:43:21");
       insert into `acc_trades` (`acc_id`, `acc_class`, `acc_contents`, `trade_money`, `acc_balance`, `imp_exp_date`)
       values ('101-11-1009', '입금', '연말정산 환급', 112000, 1763000, "2020-02-10 12:44:21");
       insert into `acc_trades` (`acc_id`, `acc_class`, `acc_contents`, `trade_money`, `acc_balance`, `imp_exp_date`)
55
       values ('101-11-1010', '출금', 'ATM 출금', 30000, 1080000, "2020-02-10 12:45:21");
56
```

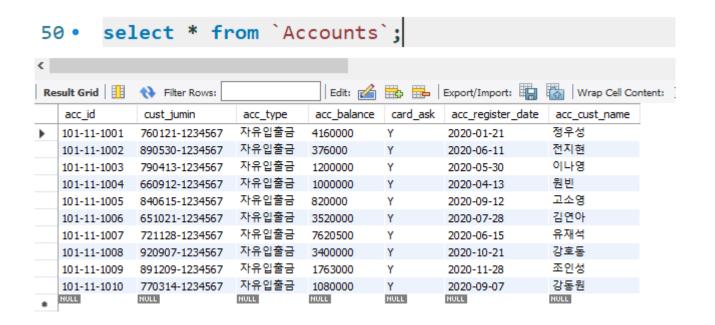
1 고객 테이블을 조회하시오.



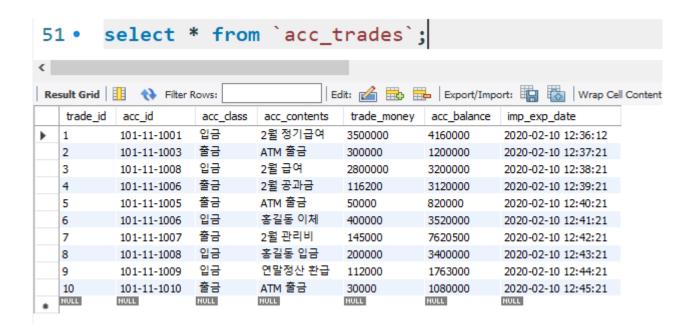
2 카드 테이블을 조회하시오.



3 예금계좌 테이블을 조회하시오.

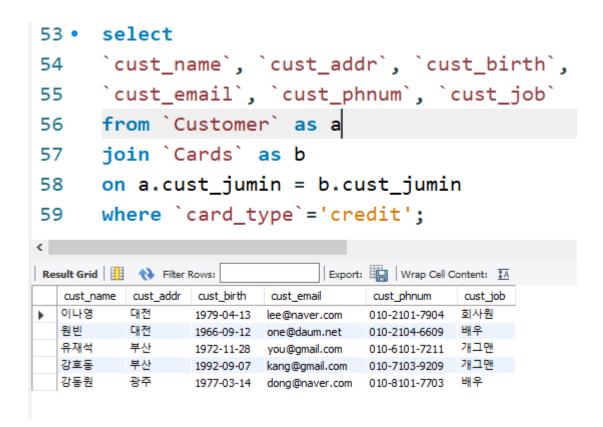


4 예금계좌거래내역 테이블을 조회하시오.



5 카드 종류가 신용카드인 고객에 대한 모든 정보를 조회하시오.

*모든 정보: 고객 명, 고객 주소, 고객 생년월일, 고객 이메일, 고객 전화번호, 고객 직업



6 예금 잔고가 4,000,000원 이상 고객에 대한 고객 명, 주민번호, 전화번호, 주소를 조회하시오.

```
select
61 ·
       `cust_name`, a.`cust_jumin`, `cust_phnum`, `cust_addr\`
62
      from `Customer` as a
63
      join `Accounts` as b
64
      on a.cust_jumin = b.cust_jumin
65
      where `acc_balance`>=4000000;
66
67
                               Export: Wrap Cell Content: IA
Result Grid
          Filter Rows:
  cust_name
                    cust_phnum
                              cust_addr
         cust jumin
 정우성
                              서울
         760121-1234567
                    010-1101-7601
  유재석
         721128-1234567
                    010-6101-7211
```