



# 데이터베이스 & SQL

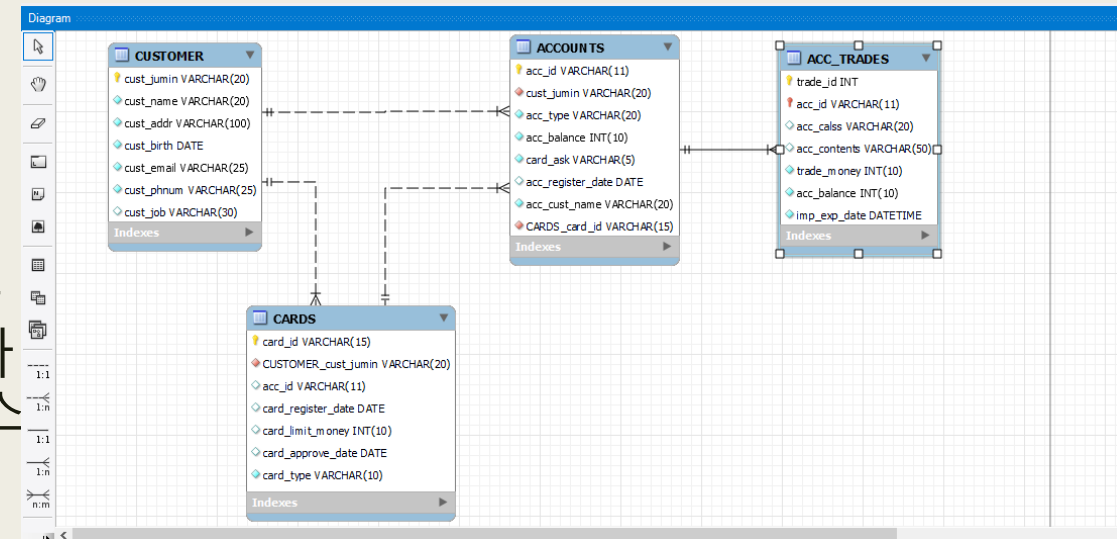
2022.10.06

라성준

# 문제1. 다음요구사항을 읽고 개체, 속성, 관계를 식별한 후 <은행 업무 관리> ERD를 작성하시오.

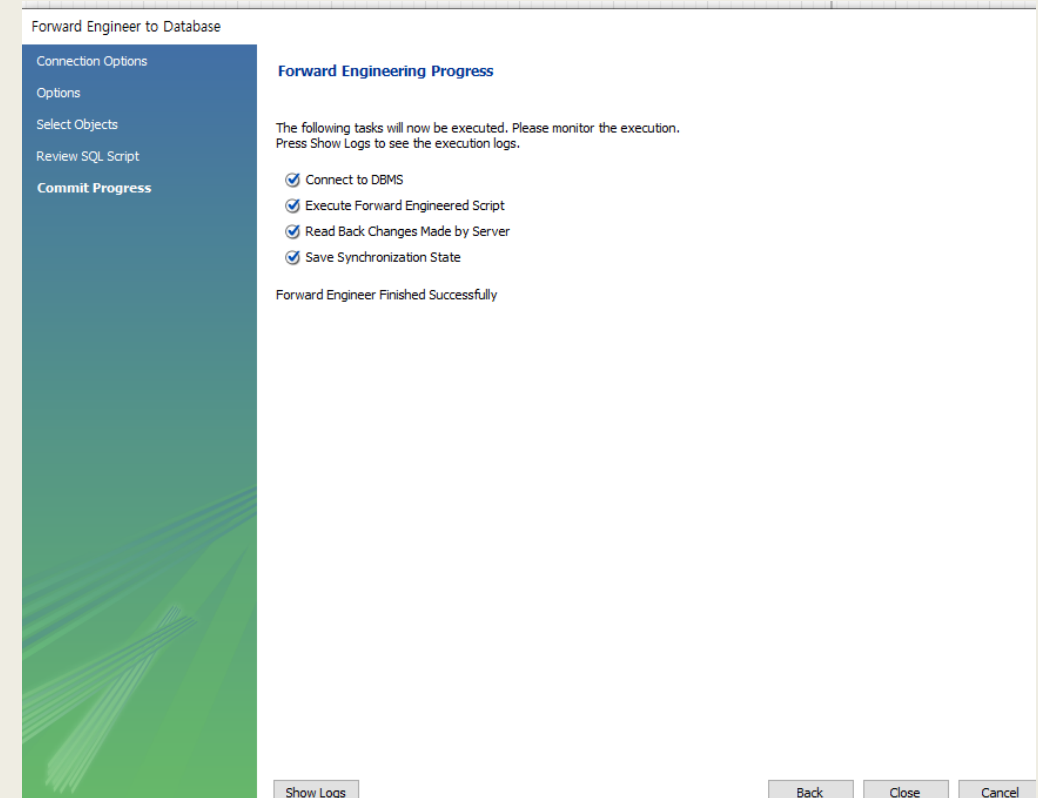
## ■ -프로젝트 소개

- OO은행은 지점별로 기본적인 은행 업무를 수행한다. 고객은 통장을 가지고 입출금이나 카드 서비스 등을 이용하고, 직원은 고객 업무를 도와 은행 업무를 수행한다. OO은행은 고객과 내부 직원의 원활한 업무를 위해 데이터베이스를 구축한다.



# 문제2 ERD를 이용하여 테이블을 생성하시오

- Database > Forward Engineer 클릭한다



# 문제3 테이블 명세서를 참고하여 데이터 입력하시오

```
7 #ACCOUNTS 테이블 삽입
8 • INSERT INTO `ACCOUNTS` VALUES('1011-1001-1001','760121-1234567','자유입출금','4160000','Y','2020-01-21','정우성');
9 • INSERT INTO `ACCOUNTS` VALUES('1011-1001-1002','890530-1234567','자유입출금','376000','Y','2020-06-11','전지현');
10 • INSERT INTO `ACCOUNTS` VALUES('1011-1001-1003','790413-1234567','자유입출금','1200000','Y','2020-05-30','이나영');
11 • INSERT INTO `ACCOUNTS` VALUES('1011-1001-1004','660912-1234567','자유입출금','1000000','Y','2020-04-13','원빈');
12 • INSERT INTO `ACCOUNTS` VALUES('1011-1001-1005','840615-1234567','자유입출금','820000','Y','2020-09-12','고소영');
13 • INSERT INTO `ACCOUNTS` VALUES('1011-1001-1006','651021-1234567','자유입출금','3520000','Y','2020-07-28','김연아');
14 • INSERT INTO `ACCOUNTS` VALUES('1011-1001-1007','721128-1234567','자유입출금','7620500','Y','2020-06-15','유재석');
15 • INSERT INTO `ACCOUNTS` VALUES('1011-1001-1008','920907-1234567','자유입출금','3400000','Y','2020-10-21','강호동');
16 • INSERT INTO `ACCOUNTS` VALUES('1011-1001-1009','891209-1234567','자유입출금','1763000','Y','2020-11-28','조인성');
17 • INSERT INTO `ACCOUNTS` VALUES('1011-1001-1010','770314-1234567','자유입출금','1080000','Y','2020-09-07','강동원');

15 #CARDS 테이블 삽입
16 • INSERT INTO `CARDS` VALUES('1011-1001-1001','760121-1234567','101-11-1001','2020-01-21','1000000','2020-02-10','check');
17 • INSERT INTO `CARDS` VALUES('1011-1001-1002','890530-1234567','101-11-1002','2020-06-11','3000000','2020-06-15','check');
18 • INSERT INTO `CARDS` VALUES('1011-1001-1003','790413-1234567','101-11-1003','2020-05-30','5000000','2020-06-25','credit');
19 • INSERT INTO `CARDS` VALUES('1011-1001-1004','660912-1234567','101-11-1004','2020-04-13','1000000','2020-05-10','credit');
20 • INSERT INTO `CARDS` VALUES('1011-1001-1005','840615-1234567','101-11-1005','2020-09-12','1500000','2020-10-10','check');
21 • INSERT INTO `CARDS` VALUES('1011-1001-1006','651021-1234567','101-11-1006','2020-07-28','10000000','2020-08-15','check');
22 • INSERT INTO `CARDS` VALUES('1011-1001-1007','721128-1234567','101-11-1007','2020-06-15','2000000','2020-07-25','credit');
23 • INSERT INTO `CARDS` VALUES('1011-1001-1008','920907-1234567','101-11-1008','2020-10-21','5000000','2020-11-15','credit');
24 • INSERT INTO `CARDS` VALUES('1011-1001-1009','891209-1234567','101-11-1009','2020-11-28','1000000','2020-12-10','check');
25 • INSERT INTO `CARDS` VALUES('1011-1001-1010','770314-1234567','101-11-1010','2020-09-07','1000000','2020-10-10','credit');
```

```

1  #CUSTOMER 테이블 삽입
2  • INSERT INTO `CUSTOMER` VALUES ('760121-1234567','정우성','서울','1976-01-21','ABC','010-1101-7601','배우');
3  • INSERT INTO `CUSTOMER` VALUES ('750611-1234567','이정재','서울','1975-06-11','ACD','010-1102-7506','배우');
4  • INSERT INTO `CUSTOMER` VALUES ('890530-1234567','전지현','대전','1989-05-30','jjh@naver.com','010-1103-8905','자영업');
5  • INSERT INTO `CUSTOMER` VALUES ('790413-1234567','이나영','대전','1979-04-13','lee@naver.com','010-2101-7904','회사원');
6  • INSERT INTO `CUSTOMER` VALUES ('660912-1234567','원빈','대전','1966-09-12','one@daum.net','010-2104-6609','배우');
7  • INSERT INTO `CUSTOMER` VALUES ('790728-1234567','장동건','대구','1979-07-28','jang@naver.com','010-3101-7907','배우');
8  • INSERT INTO `CUSTOMER` VALUES ('840615-1234567','고소영','대구','1984-06-15','goso@daum.net','010-4101-8406','회사원');
9  • INSERT INTO `CUSTOMER` VALUES ('651021-1234567','김연아','대구','1965-10-21','yuna@daum.net','010-5101-6510','운동선수');
10 • INSERT INTO `CUSTOMER` VALUES ('721128-1234567','유재석','부산','1972-11-28','AAA','010-6101-7211','개그맨');
11 • INSERT INTO `CUSTOMER` VALUES ('920907-1234567','강호동','부산','1992-09-07','BBB','010-7103-9209','개그맨');
12 • INSERT INTO `CUSTOMER` VALUES ('891209-1234567','조인성','광주','1989-12-09','join@gmail.com','010-7104-8912','배우');
13 • INSERT INTO `CUSTOMER` VALUES ('770314-1234567','강동원','광주','1977-03-14','dong@naver.com','010-8101-7703','배우');

```

```

39  #ACC-TRADES 테이블 삽입
40 • INSERT INTO `ACC_TRADES` VALUES ('1','1011-1001-1001','입금','2월 정기급여','3500000','4160000',NOW());
41 • INSERT INTO `ACC_TRADES` VALUES ('2','1011-1001-1003','출금','ARM 출금','300000','1200000',NOW());
42 • INSERT INTO `ACC_TRADES` VALUES ('3','1011-1001-1008','입금','2월 급여','2800000','3200000',NOW());
43 • INSERT INTO `ACC_TRADES` VALUES ('4','1011-1001-1006','출금','2월 공과금','116200','3120000',NOW());
44 • INSERT INTO `ACC_TRADES` VALUES ('5','1011-1001-1005','출금','ATM 출금','50000','820000',NOW());
45 • INSERT INTO `ACC_TRADES` VALUES ('6','1011-1001-1006','입금','홍길동 이체','400000','3520000',NOW());
46 • INSERT INTO `ACC_TRADES` VALUES ('7','1011-1001-1007','출금','2월 관리비','145000','7620500',NOW());
47 • INSERT INTO `ACC_TRADES` VALUES ('8','1011-1001-1008','입금','홍길동 입금','200000','3400000',NOW());
48 • INSERT INTO `ACC_TRADES` VALUES ('9','1011-1001-1009','입금','연말정산 환급','112000','1763000',NOW());
49 • INSERT INTO `ACC_TRADES` VALUES ('10','1011-1001-1010','출금','ATM출금','30000','1080000',NOW());

```











카드종류가 신용카드인 고객에 대한 모든 정보(고객명, 고객주소, 생년월일, 이메일, 전화번호, 직업)조회하시오

- ```
select `cust_name`, `cust_addr`, `cust_birth`, `cust_email`, `cust_phnum`, `cust_job`  
from `customer` AS a JOIN `ACCOUNTS` AS b ON a.cust_jumin = b.cust_jumin  
join `cards` AS c ON b.acc_id = c.acc_id where `card_type` = 'credit';
```
- ```
select `cust_name`, a-cust_jumin, `cust_phnum`, `cust_addr`  
from `customer` As a JOIN `accounts` as b on a.cust_jumin = b.cust_jumin  
where `acc_balance` >= 4000000;
```

	cust_name	cust_addr	cust_birth	cust_email	cust_phnum	cust_job
▶	이나영	대전	1979-04-13	lee@naver.com	010-2101-7904	회사원
	원빈	대전	1966-09-12	one@daum.net	010-2104-6609	배우
	유재석	부산	1972-11-28	locust@gmail.com	010-6101-7211	개그맨
	강호동	부산	1992-09-07	sugeuna@gmail.com	010-7103-9209	개그맨
	강동원	광주	1977-03-14	dong@naver.com	010-8101-7703	배우

	cust_name	cust_jumin	cust_phnum	cust_addr
▶	정우성	760121-1234567	010-1101-7601	서울
	유재석	721128-1234567	010-6101-7211	부산

감사합니다.