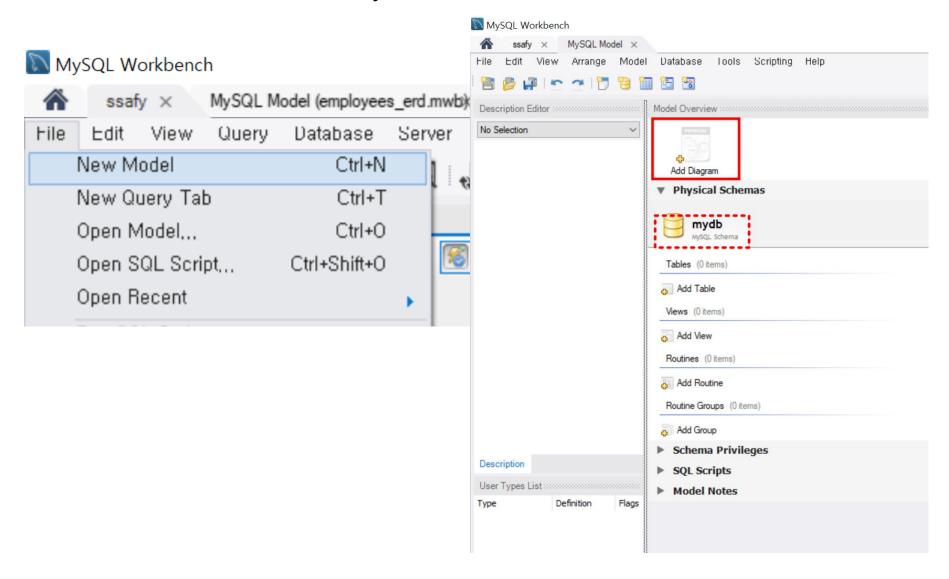
Workbench DB Modeling

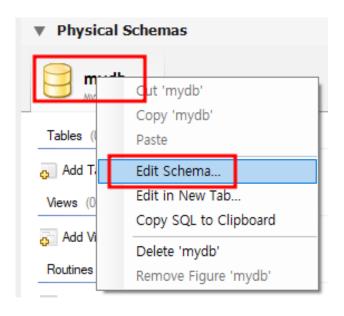
DataBase Modeling

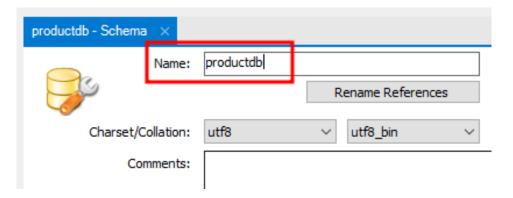
File >> New Model >> MySQL Model Tab Menu



DataBase Modeling

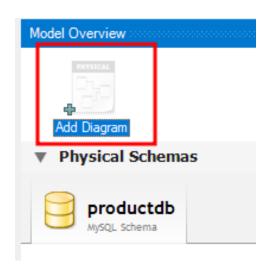
■ mydb >> 우클릭 >> Edit Schema >> Name: productdb

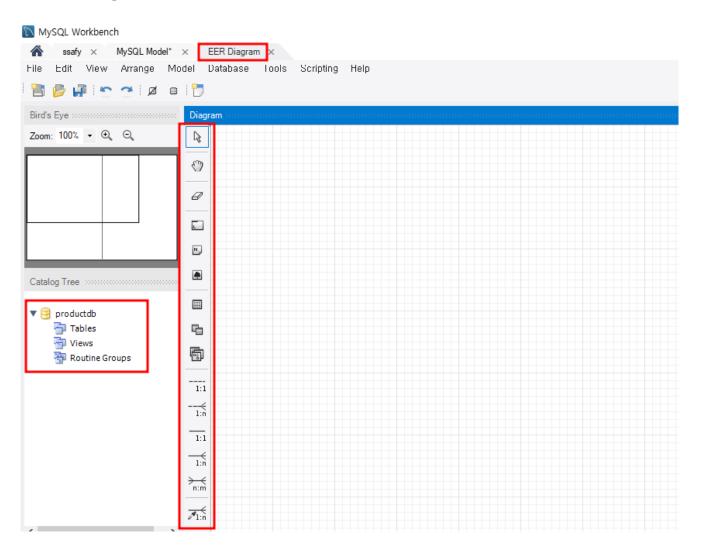




DataBase Modeling: Add Diagram

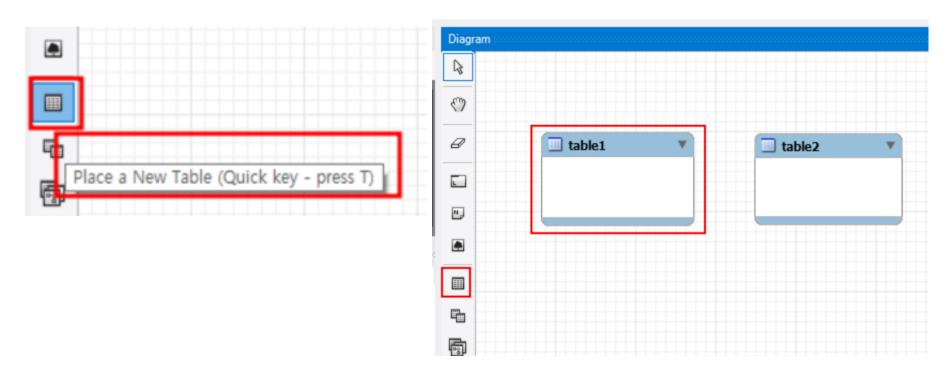
+Add Diagram >> EER Diagram Tab





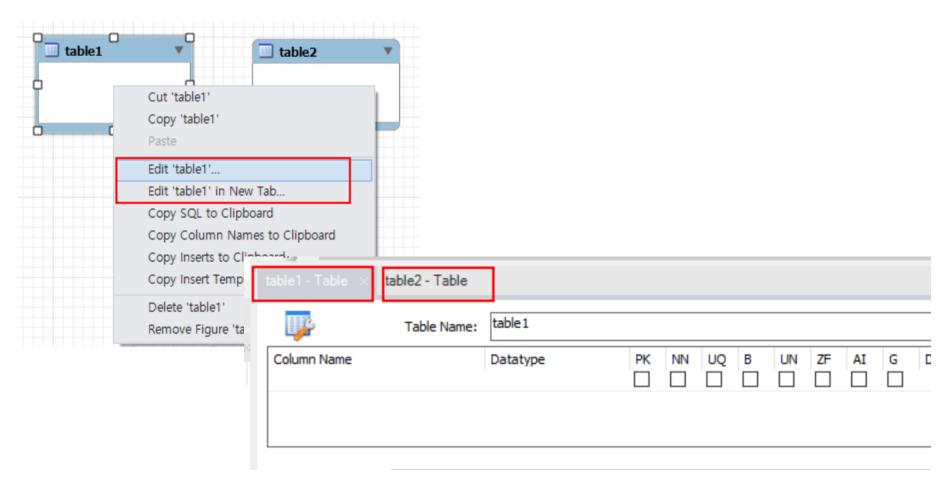
DataBase Modeling: New Table

Diagram >> Place a New Table >> table1 / table2



DataBase Modeling: Table

- Diagram >> Place a New Table >> table1 >> 우클릭
 - Edit 'table1'...
 - Edit 'table2' in New Tab...



DataBase Modeling: Table

table1 : Table >> Table Name: user

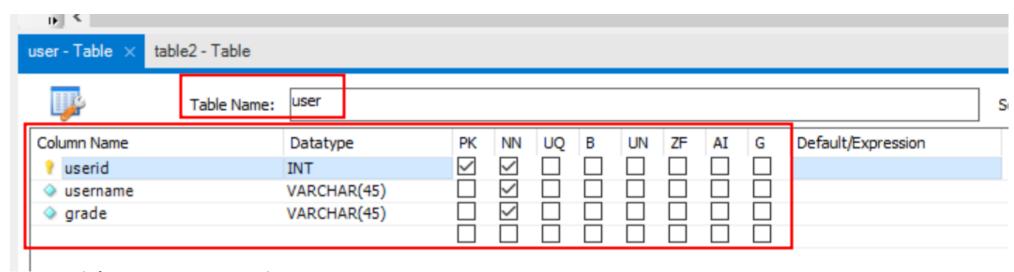


Table Name: product

user - Table product - Table ×										
Table Name:	product									
Column Name	Datatype INT VARCHAR(45) INT INT	PK		UQ	B	UN	ZF	AI	G D D	Default/Expression

DataBase Modeling: Table

Table Name: order

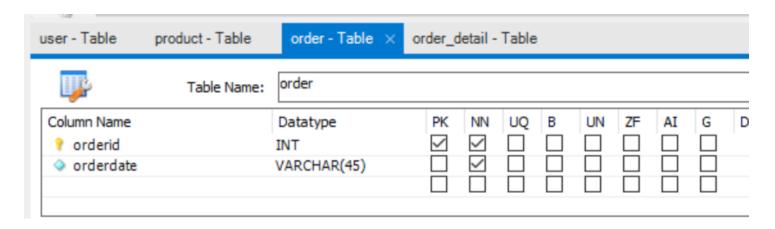
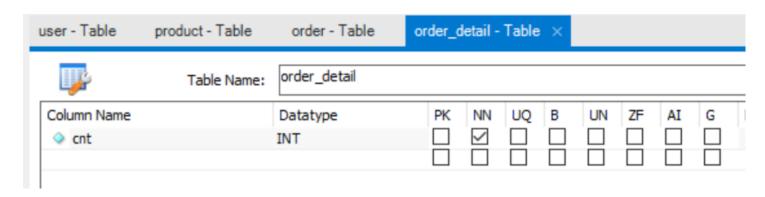
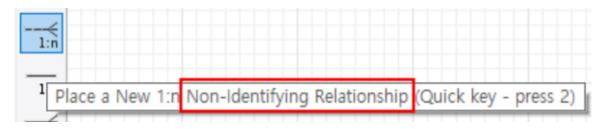


Table Name: order_detail

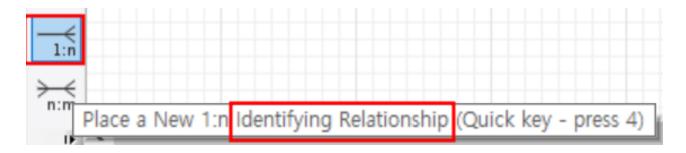


DataBase Modeling: Entity Relationship

- 비식별관계
 - FK가 참조하는 테이블에서 일반 속성 사용
 - 점선 관계선

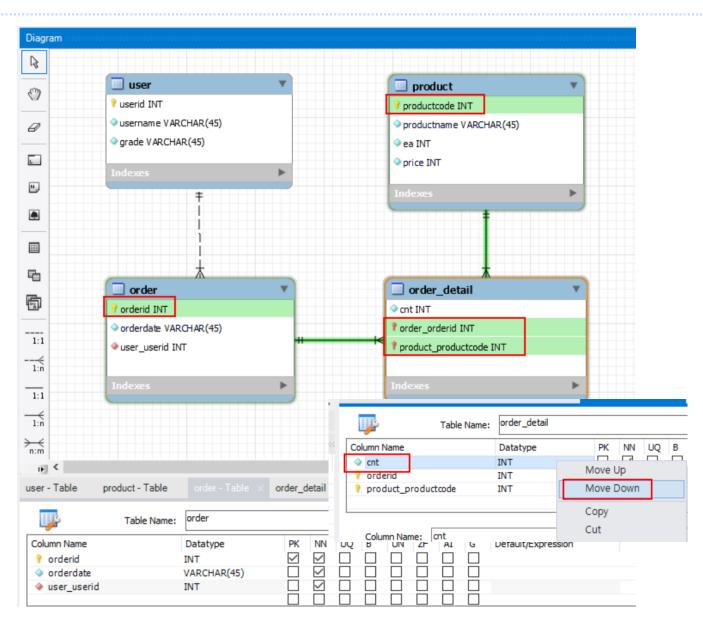


- 식별관계
 - FK가 참조하는 테이블에서 PK 속성 사용
 - 실선 관계선



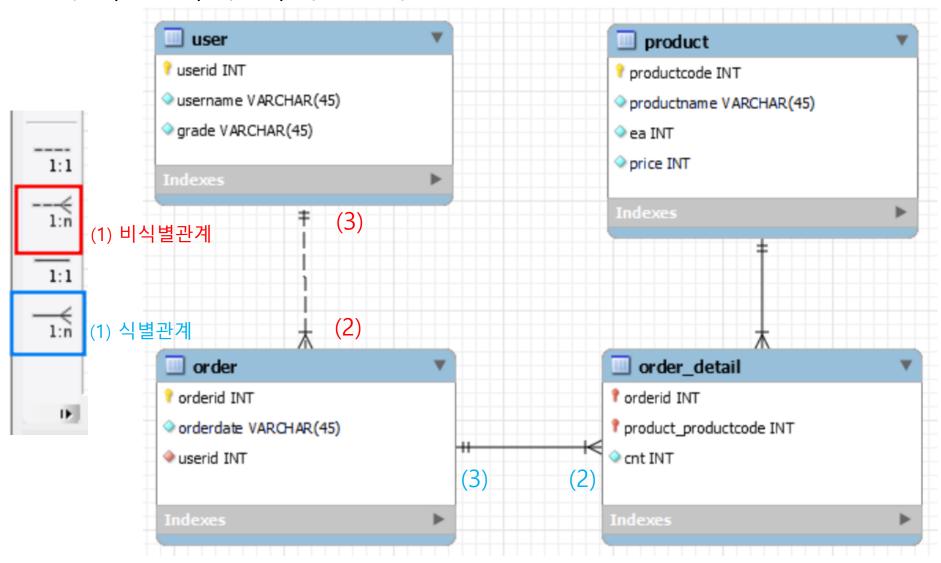
DataBase Modeling: Entity Relationship:

- 회원 → 주문
- 주문 → 주문상세
- 상품 → 주문상세



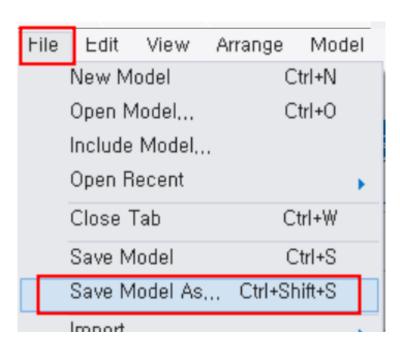
DataBase Modeling: Entity Relationship

회원 / 상품 / 주문 / 주문상세

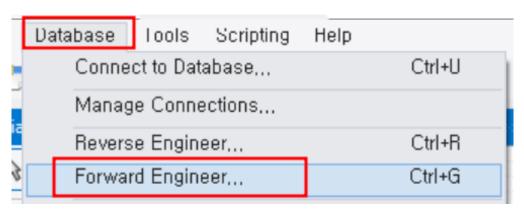


DataBase Modeling: Save Model

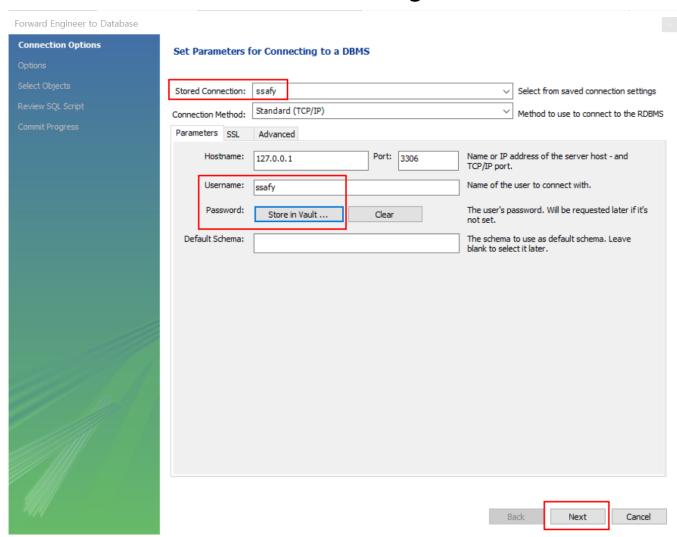
- File >> Save Model As... >>
 - C:\SSAFY\db_modeling\productdb.mwb
 - 저장폴더 영문명 사용: 한글 폴더명 오류 발생(workbench 버그)



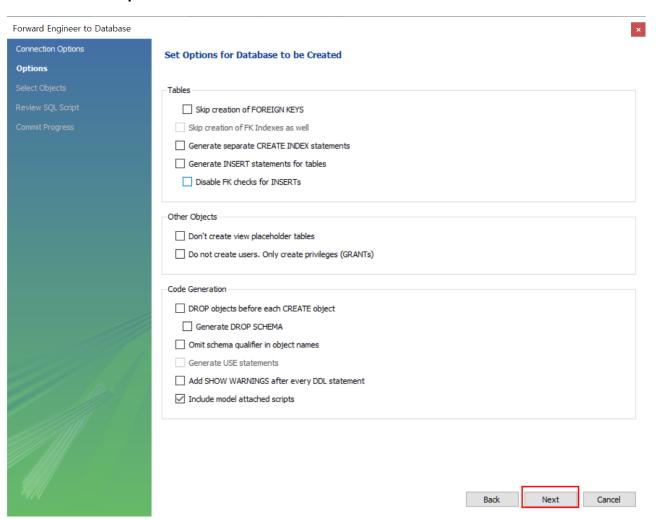
Database >> Forward Engineer...



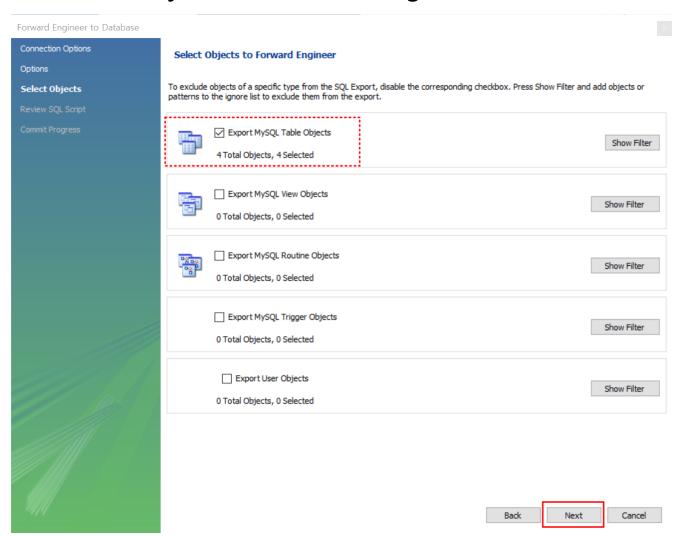
- Database >> Forward Engineer...
 - >> Set Parameters for Connecting to a DBMS



- Database >> Forward Engineer...
 - >> Set Options for Database to be Created >> Next



- Database >> Forward Engineer...
 - >> Select Objects to Forward Engineer >> Next

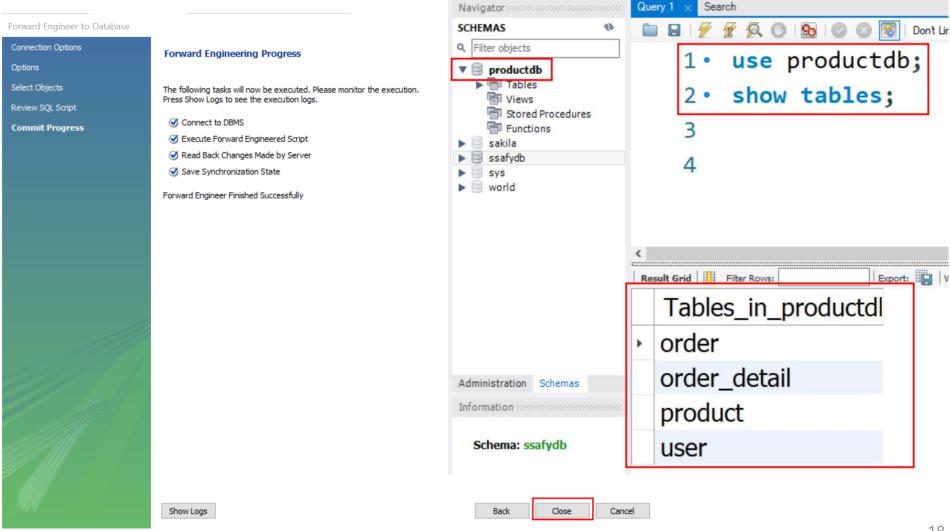


- Database >> Forward Engineer...
 - >> Review the SQL Script to be Executed >> Save to File... >> Next



Database >> Forward Engineer...

>> Forward Engineering Progress

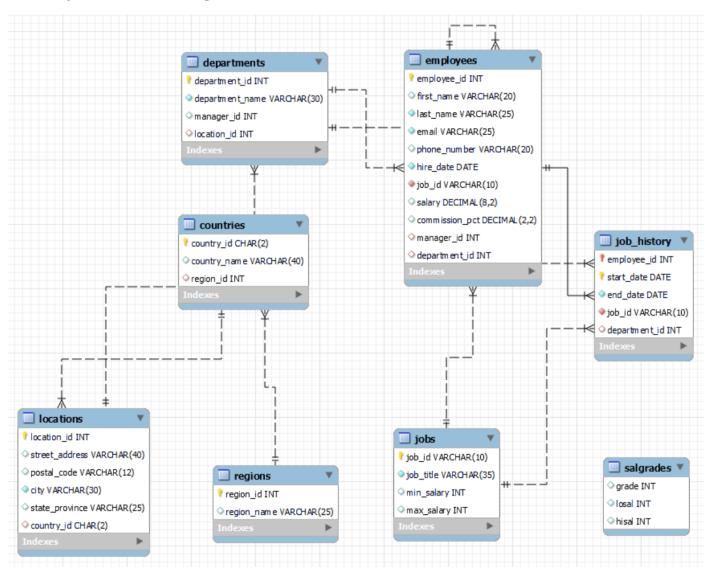


DataBase → **Modeling:** Reverse Engineering

- DataBase >> Reverse Engineer
- Set Parameters for Connecting to a DBMS >> Next
- Connect to DBMS and Fetch Information >> 모두 체킹 확인 >> Next
- Select the schemas you want to include >> "ssafydb" 선택 >> Next
- Retrive and Reverse Engineer Schema Object >> 모두 체킹 확인 >> Next
- 기본으로 모두 선택된 상태 >> Execute
 - Show Filter >> 필요한 내용만 선택 가능
- Reverse Engineering Progress >> 모두 체킹 확인 >> Next >> Finish
- 변환 완료된 Database Modeling Diagram 확인
- File >> Save Model as... >> C:\SSAFY\db_modeling\ssafydb.mwb

DataBase → **Modeling:** Reverse Engineering

ssafydb ER Diagram



DB Modeling Tools

- ERWin
- Microsoft Visio
- SQL Power Architect
- MySQL Workbench
- exERD