Homework: Mapping

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- 제출일: 2022-04-07

Problem 1. (20pts)

1. 다음 ER Diagram에 대한 MySQL 스키마를 작성하여, mysql dbms에서 실행한다.
2. 스키마는 ER Diagram의 제약조건 중 관계형 데이터베이스 "create table"문에서 표현가능한 것은 모두 표현하여야 한다.
3. "show create table ....\G"문을 이용하여 각 테이블에 대한 다음과 같은 mysql screenshot을 첨부하시오.
4. 생성된 테이블의 개수만큼 Answer cell을 복사하여 MySQL 스크린샷을 첨부한다.

```
mysql> show create table DEPARTMENT\G
*************************** 1. row ***************************
       Table: DEPARTMENT
Create Table: CREATE TABLE `DEPARTMENT` (
  `dnumber` int NOT NULL,
  `dname` varchar(45) NOT NULL,
  `mgrssn` char(9) NOT NULL,
  PRIMARY KEY (`dnumber`),
  UNIQUE KEY `dname_UNIQUE` (`dname`),
  KEY `fk_DEPARTMENT_EMPLOYEE_idx` (`mgrssn`),
  CONSTRAINT `fk_DEPARTMENT_EMPLOYEE` FOREIGN KEY (`mgrssn`) REFERENCES `EMPLOYEE` (`ssn`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8
1 row in set (0.00 sec)
```

ER Diagram for Movies Database

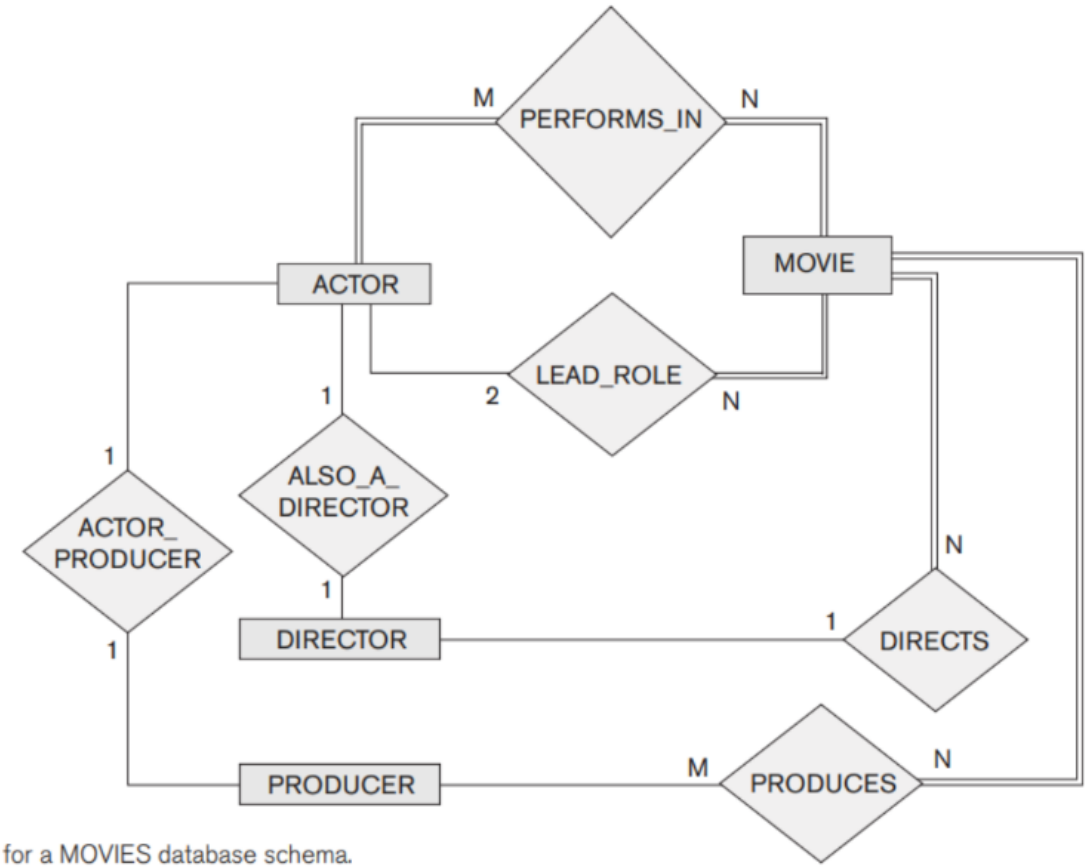
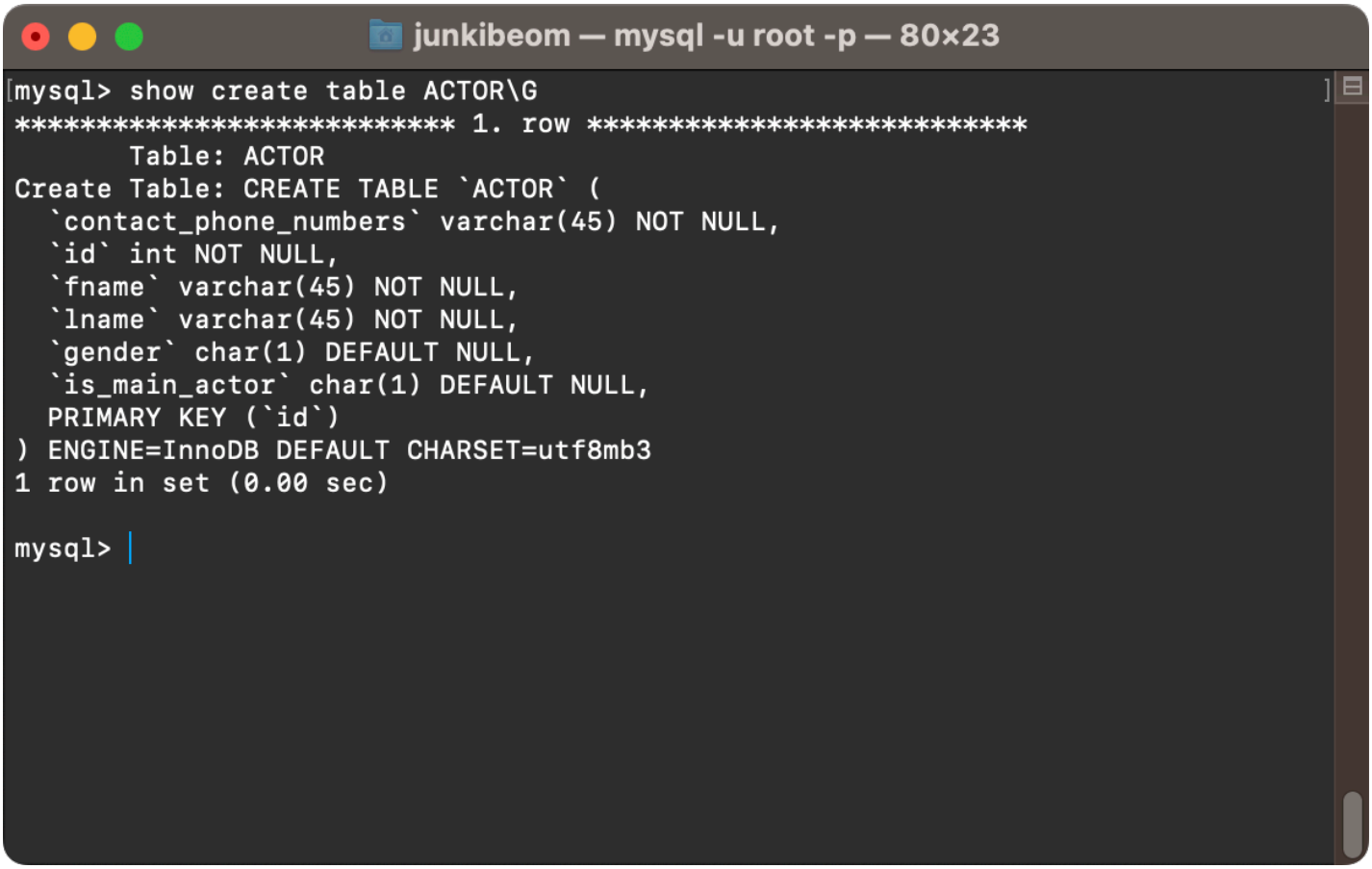


Figure 3.25
An ER diagram for a MOVIES database schema.

- MOVIES DB의 Entity는 오직 하나의 attribute인 entity_name + id만을 가진다.
- 예를 들어, director는 director_id라는 하나의 attribute를 가진다.
- 예외로, actor는 actor_id와 contact_phone_numbers(연락가능 전화번호들)의 attributes를 가진다.

Answer

- To edit, double click this cell
- Paste your figure here (CTRL + V)



Answer

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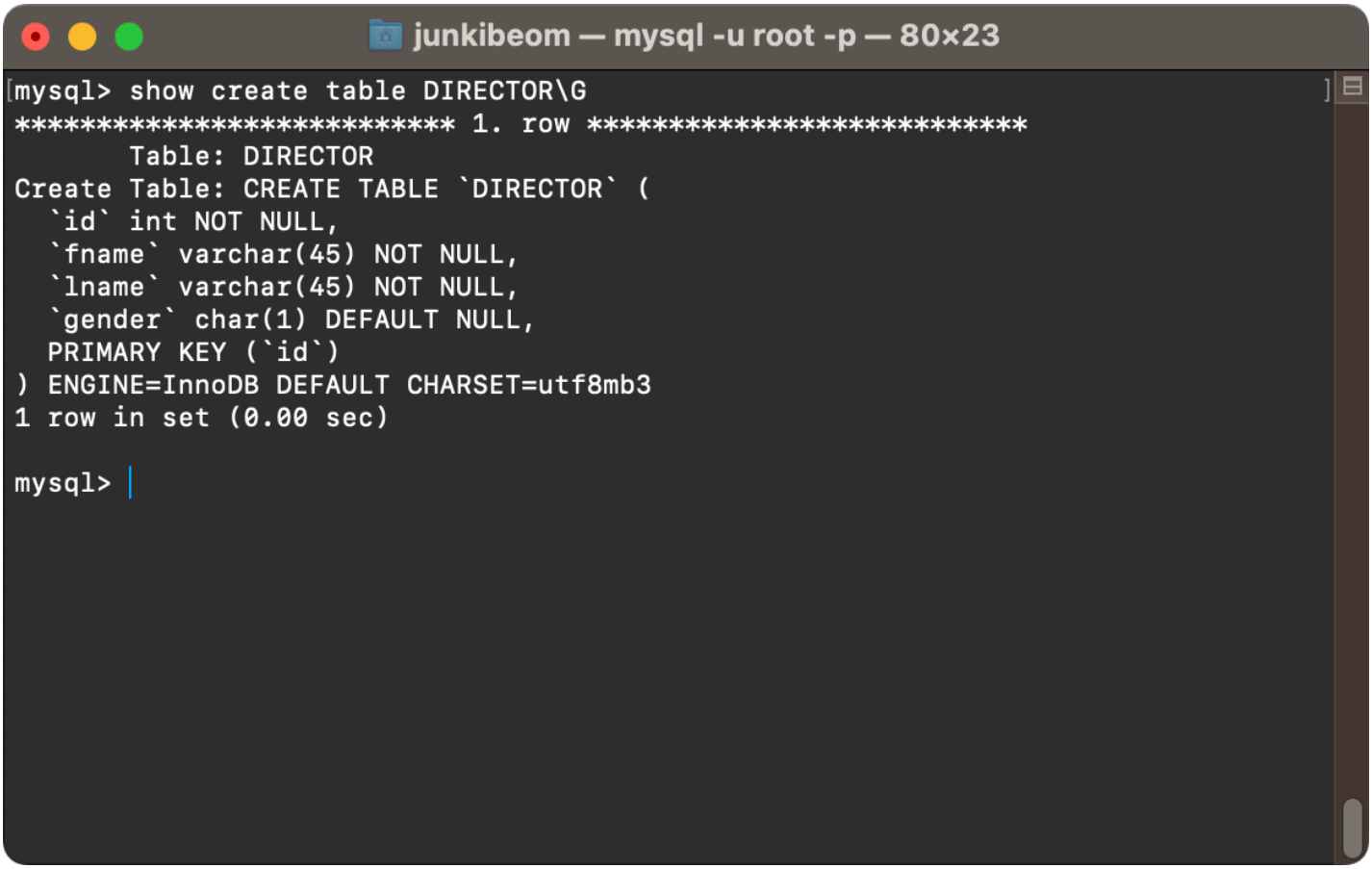

Answer

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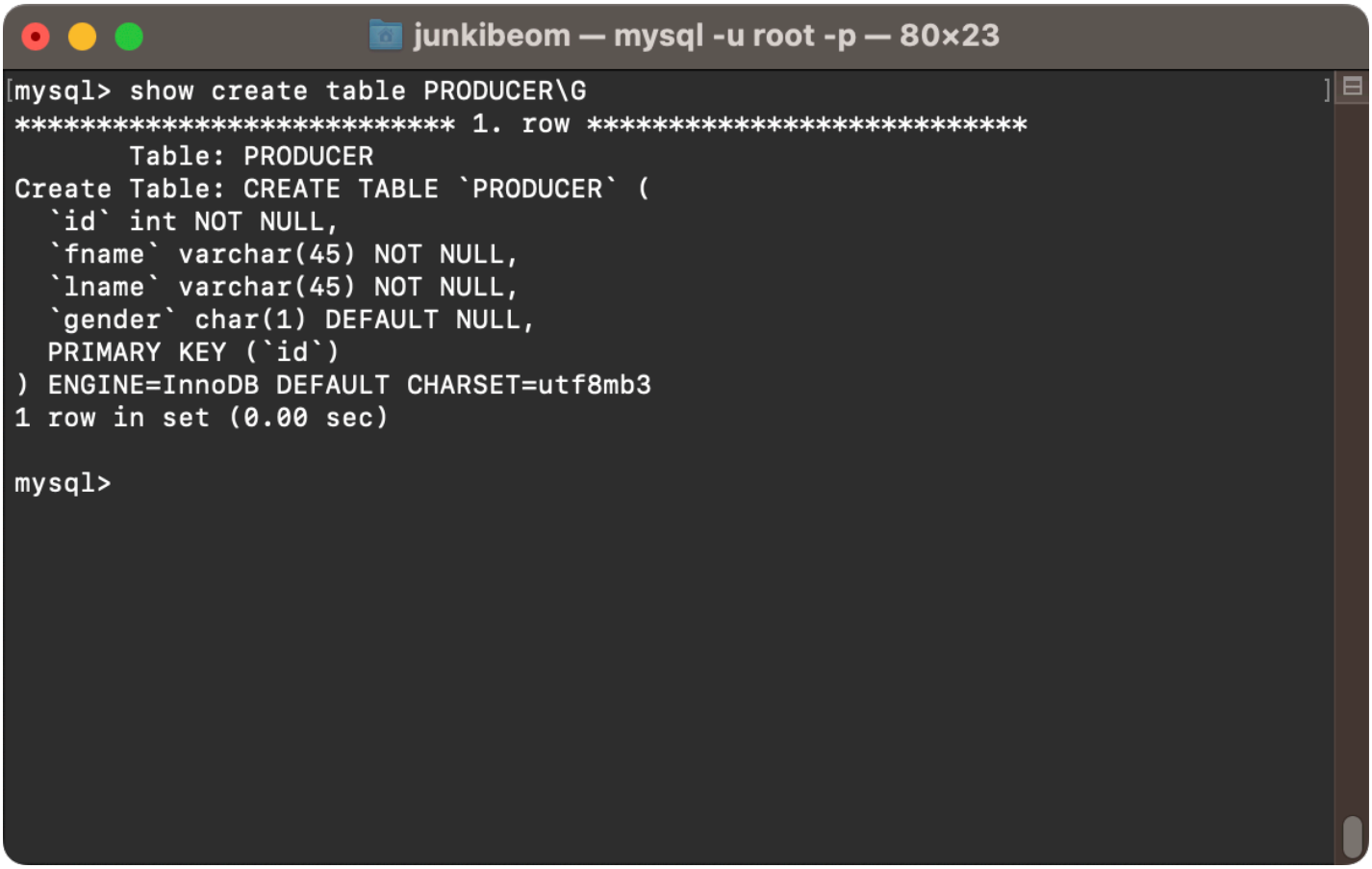

Answer

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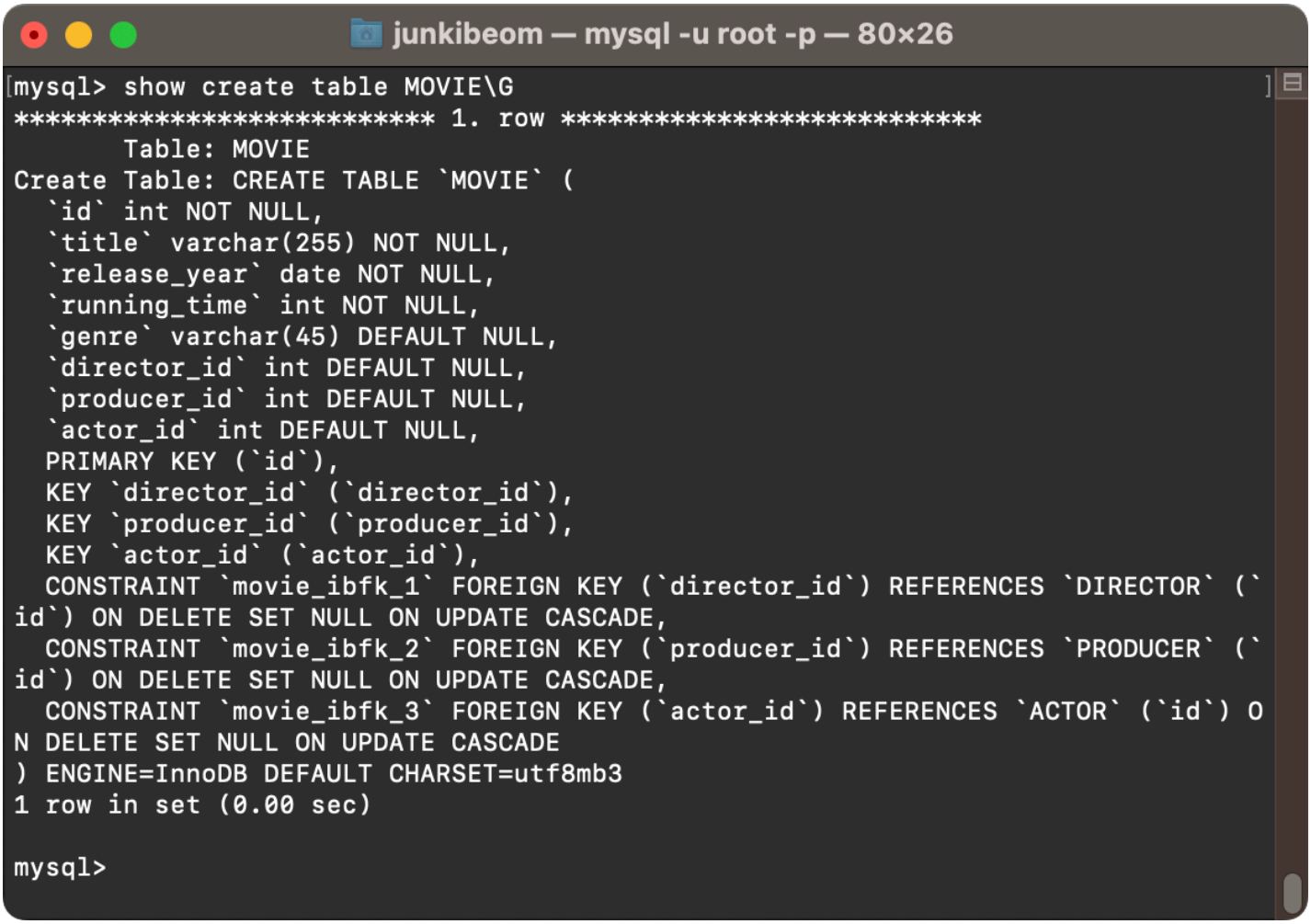

Answer

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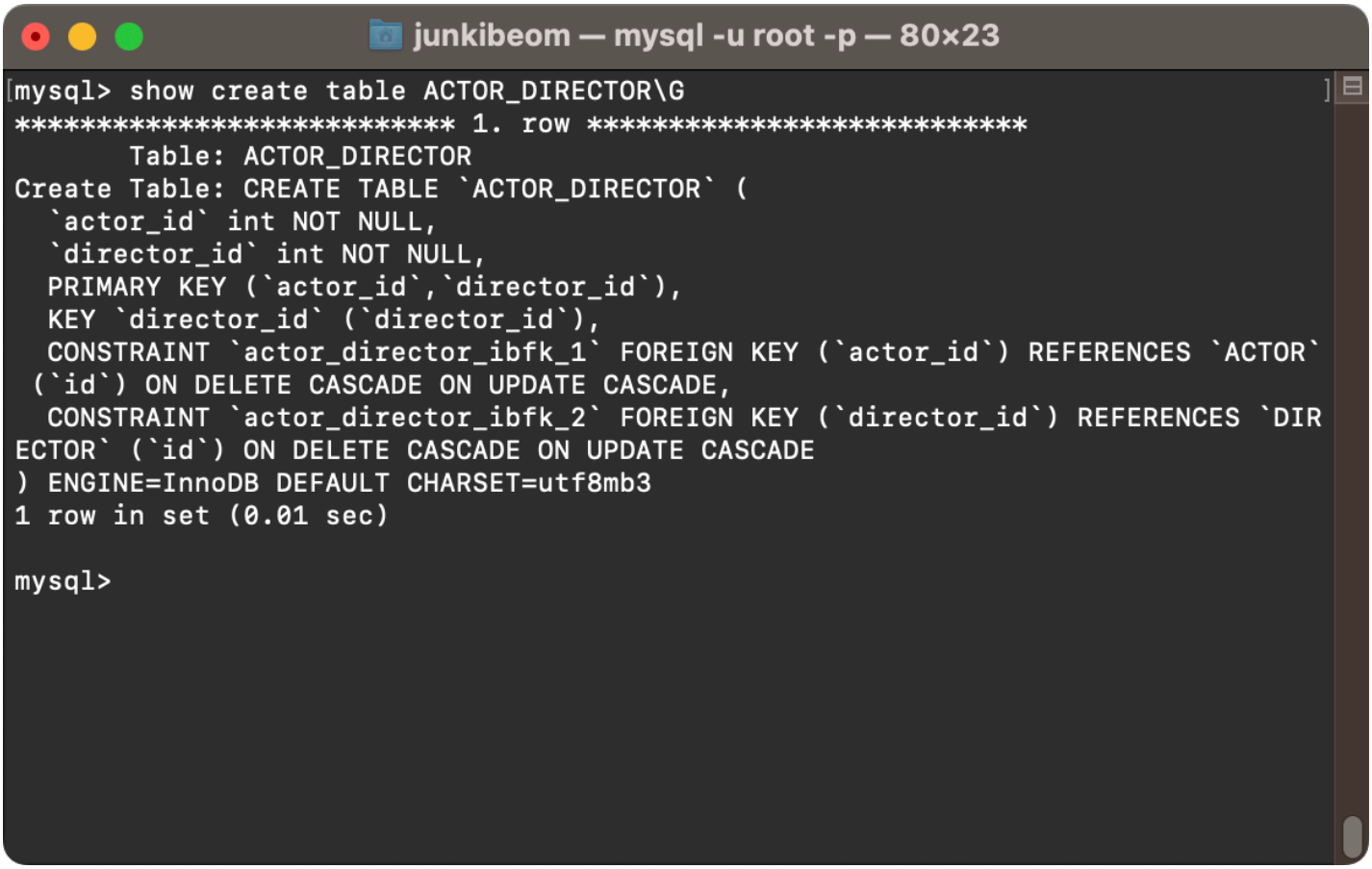

Answer

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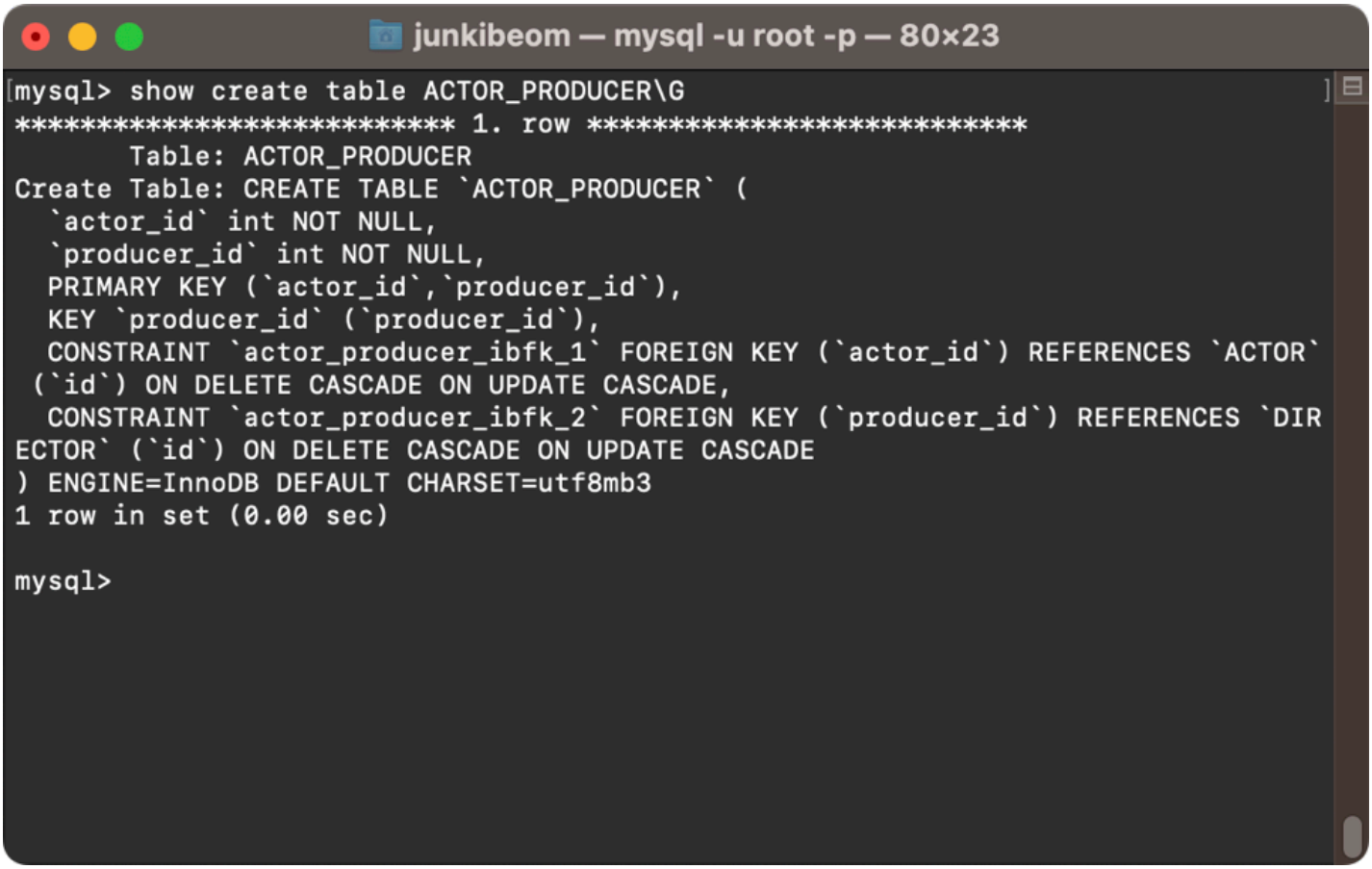

Problem 2 (30pts)

1. 다음 ER Diagram에 대한 MySQL 스키마를 작성하여, mysql dbms에서 실행한다.
2. 스키마는 ER Diagram의 제약조건 중 관계형 데이터베이스 "create table"문에서 표현가능한 것은 모두 표현하여야 한다.
3. "show create table ....\G"문을 이용하여 각 테이블에 대한 mysql screenshot을 첨부하시오.
4. superclass/subclass mapping은 '선택 8A'를 이용하고, subclass에 대해서는 적절한 view를 제공하여야 한다. (UNION Type은 제외) "show create view ....\G"문을이용하여, 각 view에 대한 mysql screenshot을 첨부하시오.
5. 생성된 테이블의 개수만큼 Answer cell을 복사하여 MySQL 스크린샷을 첨부한다.

EER Diagram: University

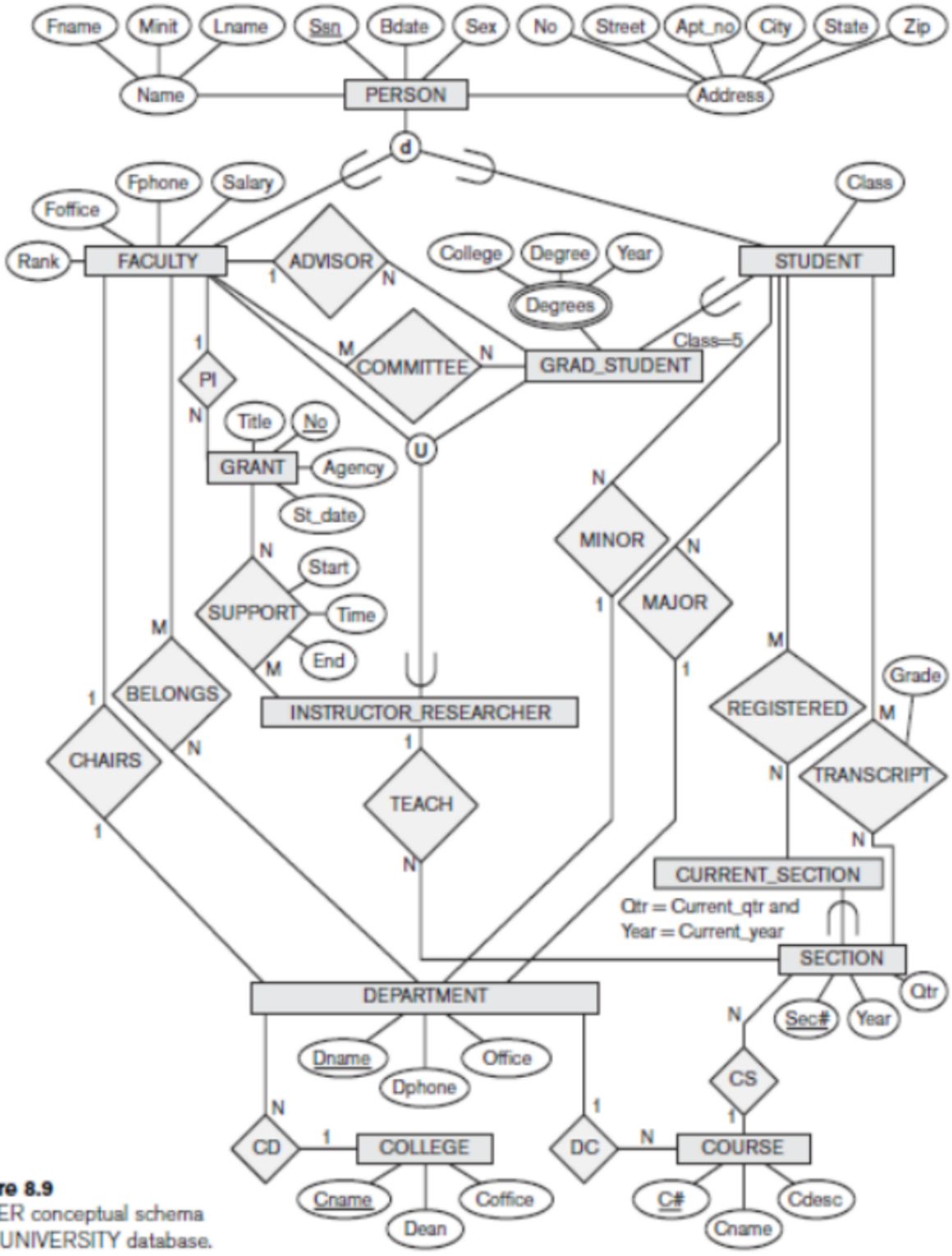

Figure 8.9
An EER conceptual schema for a UNIVERSITY database.

Answer

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Ethics:

If you cheat, you will get negative of the total points. If the homework total is 20 and you cheat, you get -20.

What to submit

- Goto "File -> Print Preview"
- Print the page as pdf
- Submit the pdf file in google classroom
- Pdf file name must be in a form of: homework_2_홍길동_202300001.pdf
- No late homeworks will be accepted