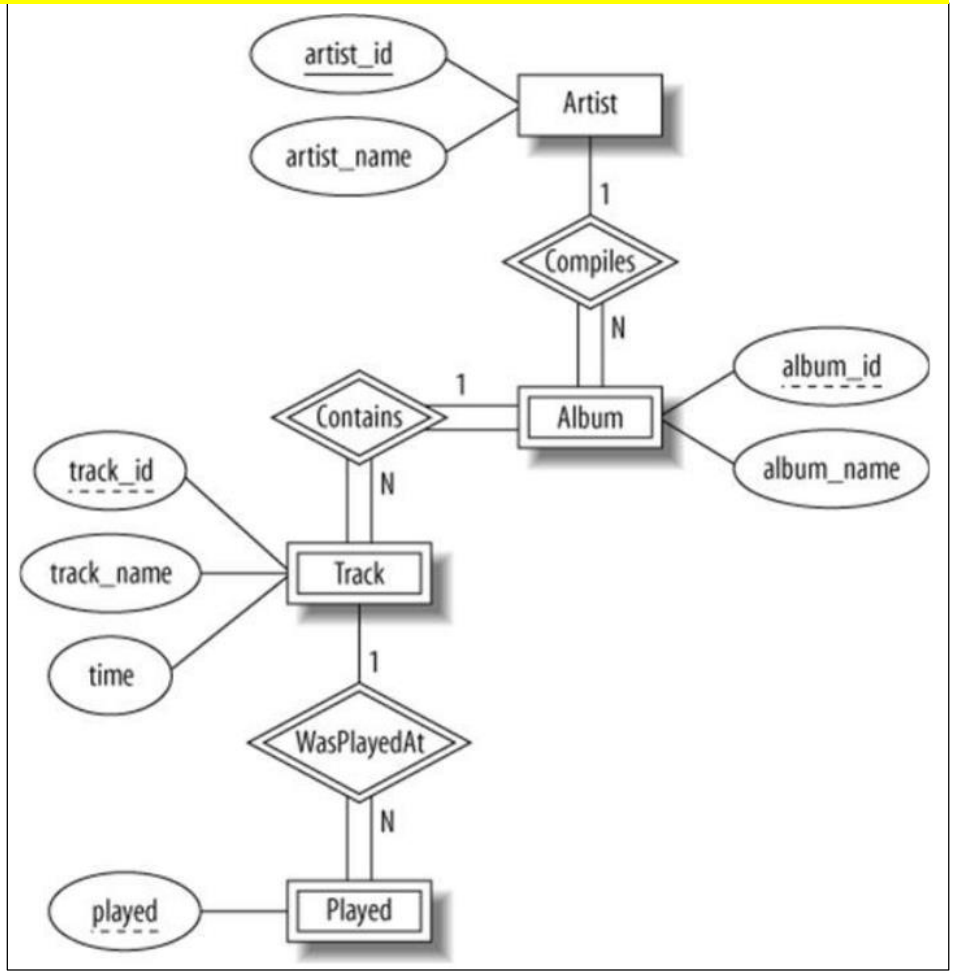
Database Systems II 2.1

(CCS 2218)

Experiment 1

The ER diagram below represents an artist's albums system. Understand it carefully, and then perform the steps below:



1. Map the above database schema into a relational schema. Specify all primary keys and foreign keys.
2. Using Oracle DBMS create the tables you get from the previous ER Diagram.
3. Fill each table with demo data, up to 2 rows in each table.

Important Notes:

- ❖ Write your answer in an SQL script file named with your University-ID
- ❖ Upload the file to moodle

Assignment ONE …..to be submitted on or before 18th October 2022

Experiment 2

Consider following databases and draw ER diagram and convert entities and relationships to relation table for a given scenario.

1. **COLLEGE DATABASE**:

STUDENT (*USN, SName, Address, Phone, Gender*)
SEMSEC (*SSID, Sem, Sec*)
CLASS (*USN, SSID*)
SUBJECT (*Subcode, Title, Sem, Credits*)
IAMARKS *(USN, Subcode, SSID, Test1, Test2, Test3, FinalIA*)

2. **COMPANY DATABASE**:

EMPLOYEE (*SSN, Name, Address, Sex, Salary, SuperSSN, DNo*)
DEPARTMENT (*DNo, DName, MgrSSN, MgrStartDate*)
DLOCATION (*DNo,DLoc*)
PROJECT (*PNo, PName, PLocation, DNo*)
WORKS_ON (*SSN, PNo, Hours*)