

## Lab 04 DBMS - Mustafa Farhan mq09644

### 1NF:

Publications(Pub\_ID (FK), ResearchPaperTitle, Pub\_Date, Journal, Category, No\_Of\_Pages)  
SubjectInfo(SubjectArea, Pub\_ID)  
FacultyInfo(Faculty\_ID, FacultyName, Pub\_ID)  
SupervisorInfo(Sup\_ID, SupervisorName, Pub\_ID)

- Functional Dependency:

{Pub\_ID}  $\rightarrow$  {Pub\_Date, ResearchPaperTitle, Journal, Category, No\_Of\_Pages}  
{Faculty\_ID}  $\rightarrow$  {FacultyName}  
{Sup\_ID}  $\rightarrow$  {SupervisorName}  
{Pub\_ID, SubjectArea}  $\rightarrow$  {}

### 2NF:

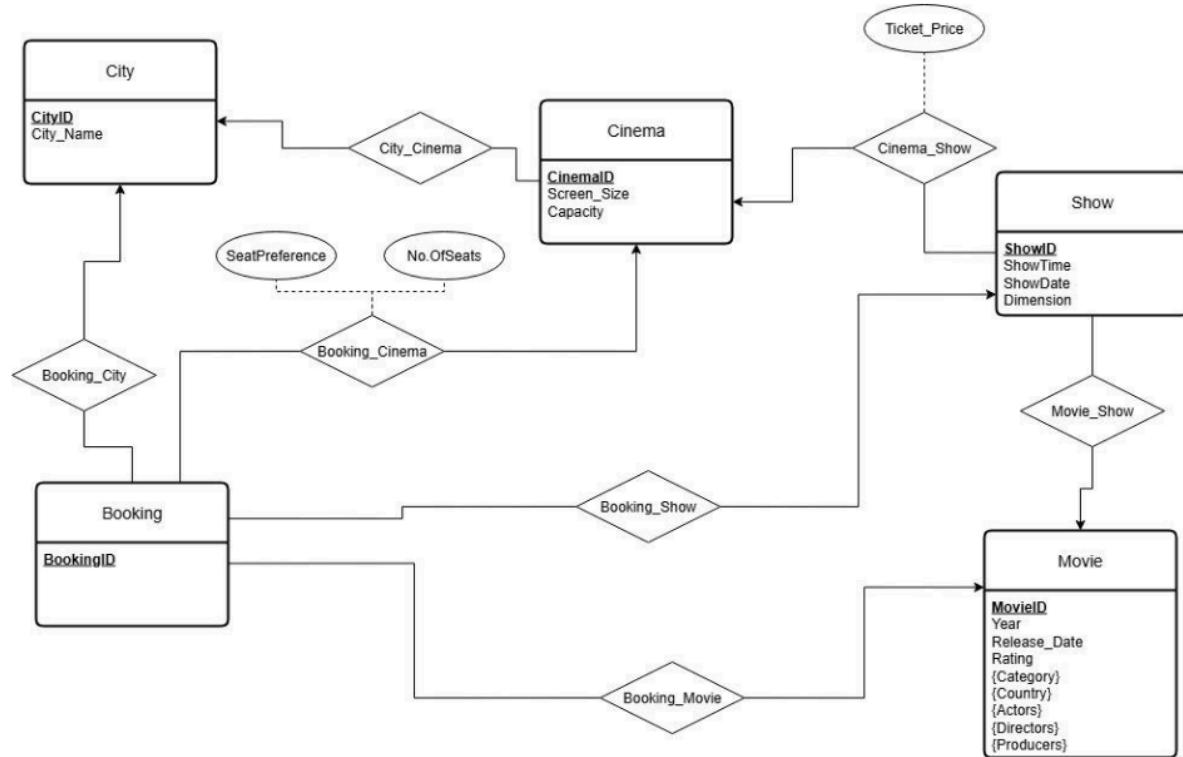
Publications(Pub\_ID (FK), ResearchPaperTitle, Pub\_Date, Journal, Category, No\_Of\_Pages)  
SubjectInfo(SubjectArea, Pub\_ID)  
FacultyInfo(Faculty\_ID, FacultyName, Pub\_ID)  
SupervisorInfo(Sup\_ID, SupervisorName, Pub\_ID)

### 3NF:

Publications(Pub\_ID (FK), ResearchPaperTitle, Pub\_Date, No\_Of\_Pages)  
Journals(Journal, Category, Pub\_ID)  
SubjectInfo(SubjectArea, Pub\_ID)  
FacultyInfo(Faculty\_ID, FacultyName, Pub\_ID)  
SupervisorInfo(Sup\_ID, SupervisorName, Pub\_ID)

### Q2:

ERD



- Assumed that release date will be enough to determine a future movie release