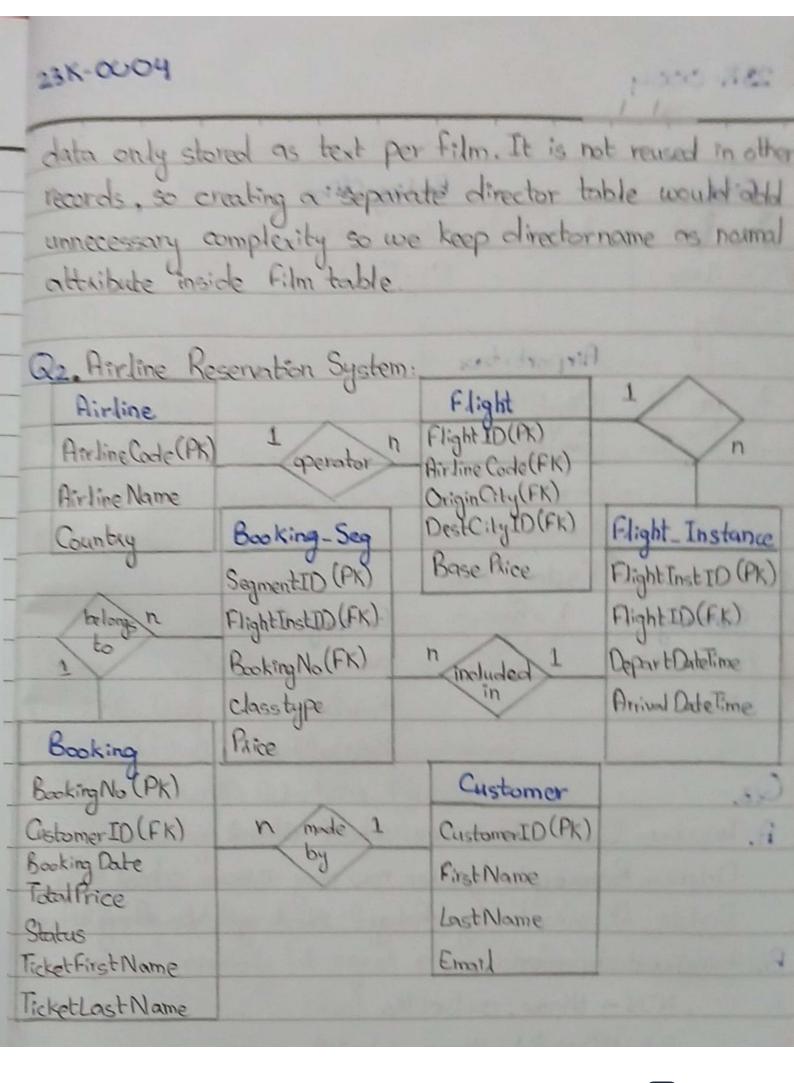
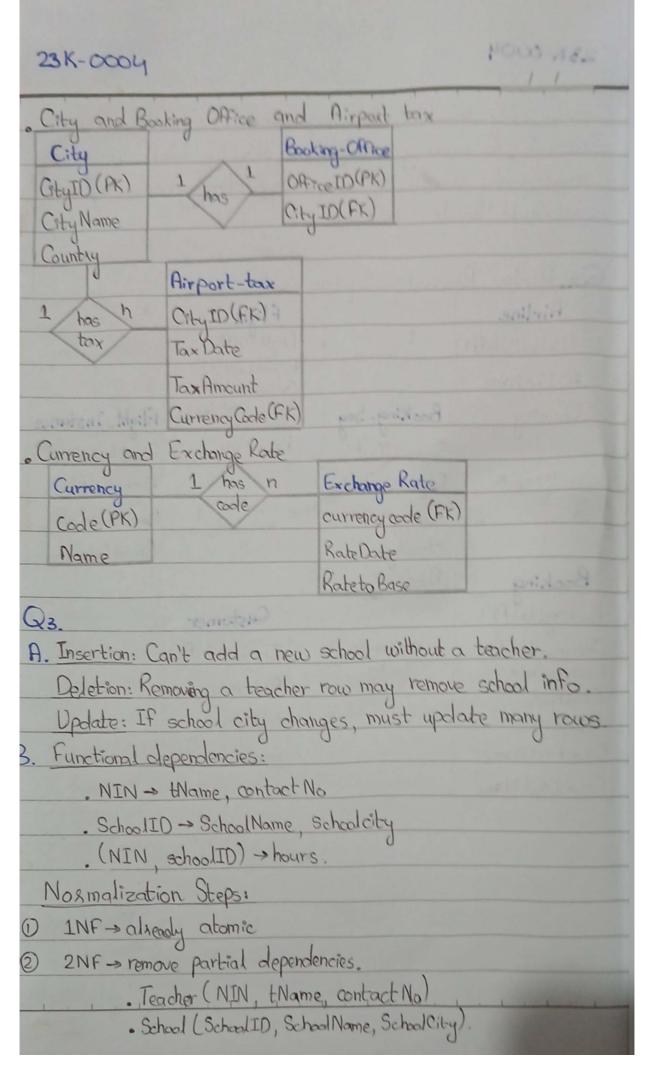
23K-0004 Syed Huzaifa Al:			
Date	abase Systems	,,	
Database Systems Assignment # 02			
	0		
Qı.		0	
A. Film:	Actor:	Company ID (PK)	
FilmID (PK)	ActorID (PK)		
Title	ActorName	Company Name	
Budget	Phone		
Release Date			
Director Name			
Casting:	Film Funding:		
FilmID (FK)	FilmID(FK)		
ActorID (FK)	CompanyID(FK)		
Character 10 me	Amount		
Charge			
R Film - Actor ->	M:N (Many to Many)		
Colon Disposter	M: N 1:1 (one to one)		
FILM - DIECCOI	1.1 (ONE TO ONE)		
0 0 10 (01 )			
C. Casting (Name)	(1) (1) (1)	l PK	
FilmID (FK-Film) Past of composite PK.			
	Actor) Part of composit	te in.	
Character Name	- Not NULL		
4			
D. We need In this case, we don't need full details about			
directors, only their names for each film, and the problem explicitly states director is not tracked separately; director			
explicitly states director is not tracked sparately director			
THE RESERVE OF THE PARTY OF THE	the first and the state of		





2314-00011 13K-0004 . Teach - Assignment (NIN, schoolID, hours) 3NF -> No transitive dependencies. A. Primary keys: (FilmID, ActionIO). B. Violates (2NF) in 1NF, all attributes have atomic values, but in this table, some non-key attributes depend only on part of the composite primary key, not the whole key. Thats a partial dependency which breaks 2NF rules. & Examples: If the tables primary key is (Flight No, Date) then an attribute like Airline Name or Origin City depends on FlightNo, not on Date. C. 2NF. Tables: Film (Film ID, Film Title, Director Name) Actor (Actor ID, Actor Name, AgentID) Film\_costing (FilmID, ActorID) D. 3NF: Add Agent (Agent ID, Agent Phone) E. Update anomaly (if agent phone changes, must edit all

2314-00014	PC00-23-
	17
Q5.	Action 1
1. Assumptions:	Mary Control
Student has unique ID.	
Course has unique couse ID	. 4.5
Student can entall in many courses and a course	can have .
many students.	3
Functional Dependencies:	
Student IO -> First Name, Last Name, Address	
Course ID -> Course Name, credits, Instructor	
(Student ID, Course ID) -> Enrollment Date	)
2. Already in INF.	
1NF→2NF:	
Student (Student ID, First Name, Last Name, Addr	PSS).
Course (Course ID, Course Name, Credits, Instructo	or Name).
Enrollment (StudentID, Course ID, Enrollment Date	1
2NF >3NF: Check for transitive dependencies.	19/10/19
All tables resulting from the 2NF process are a	beauty in 3NF.
Student (Student ID, FirstName, LastName, Addr	ess)
Course (Course ID, Course Name, Credits, Institu	ctorName)
Enrollment (Student ID, Course ID, Enrollment Da	to).
3. Primary Keys:	
Student -> StudentID	
Course > Course ID	
No Alternate Keys.	
Foreign Keys:	
StudentID (FK to Students)	
Course ID (FK to Course)	