

## Assignment #3.

(UNIST)

1

KIM MIN JOON

20196004

4-44

a)

RENTER

Renter ID	First Name	Middle Initial	Address	Phone *	Email
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RENTAL AGREEMENT

Agreement ID	Renter ID	Property ID	Begin Date	End Date	Rental Amount
--------------	-----------	-------------	------------	----------	---------------

PROPERTY

Property ID	Street Address	City State	Zip	Nbr Rooms	Base Rate	Property Type
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BEACH PROPERTY

B Property ID	Blocks to Beach
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MOUNTAIN PROPERTY

M Property ID
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PROPERTY ACTIVITIES

M Property ID	Activity ID
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ACTIVITIES

Activity ID	Activity
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b)

(3NF)

RENTER

Renter ID	First Name	Middle Initial	Address	Phone #	Email
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(3NF)

RENTAL AGREEMENT

Agreement ID	Renter ID	Property ID	Begin Date	End Date	Rental Amount
--------------	-----------	-------------	------------	----------	---------------

PROPERTY (3NF)

Property ID	Street Address	City State	Zip	Nbr Rooms	Base Rate	Property Type
-------------	----------------	------------	-----	-----------	-----------	---------------

BEACH PROPERTY (3NF)

B Property ID	Blocks to Beach
---------------	-----------------

MOUNTAIN PROPERTY (3NF)

M Property ID
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PROPERTY ACTIVITY (3NF)

M Property ID	Activity ID
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ACTIVITY (3NF)

Activity ID	Activity
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c) All Relations are Third Normal Form (3NF)

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TEAM

Team ID	Team Name	Team Manager
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(3NF)

DRIVER

Driver ID	Driver Age	Driver Name	Team ID
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(3NF)

PARTCIPATION

Participation ID	Point Earned	Team ID	Driver ID	Race ID
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(3NF)

RACE

Race ID	Race Title	Race Location	Race Date
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(3NF)

RACE COMPONENT

RC ID	RC Type	Race ID
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(3NF)

FINISH

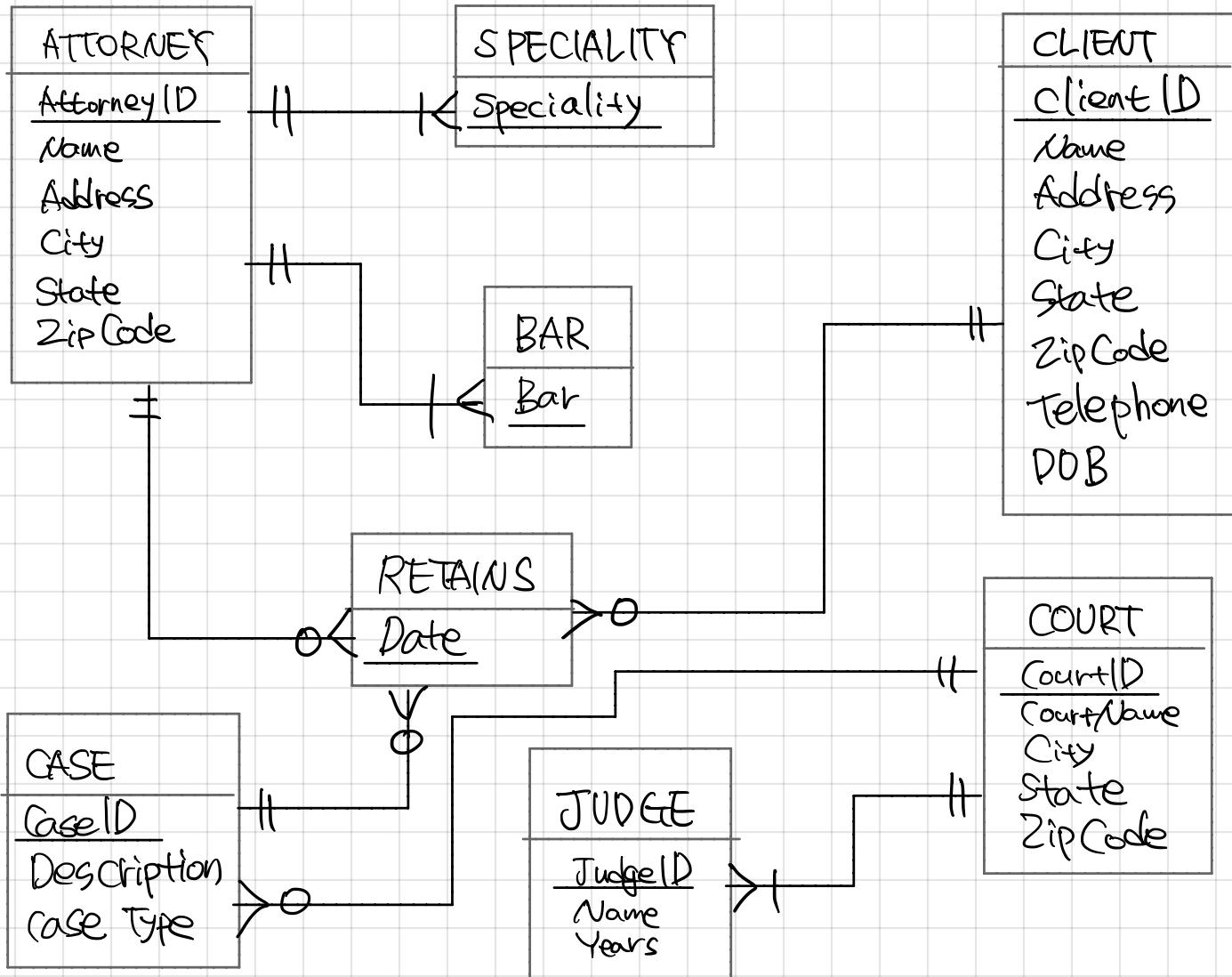
Finish ID	Position	Result	RC ID	Driver ID
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(3NF)

(4)

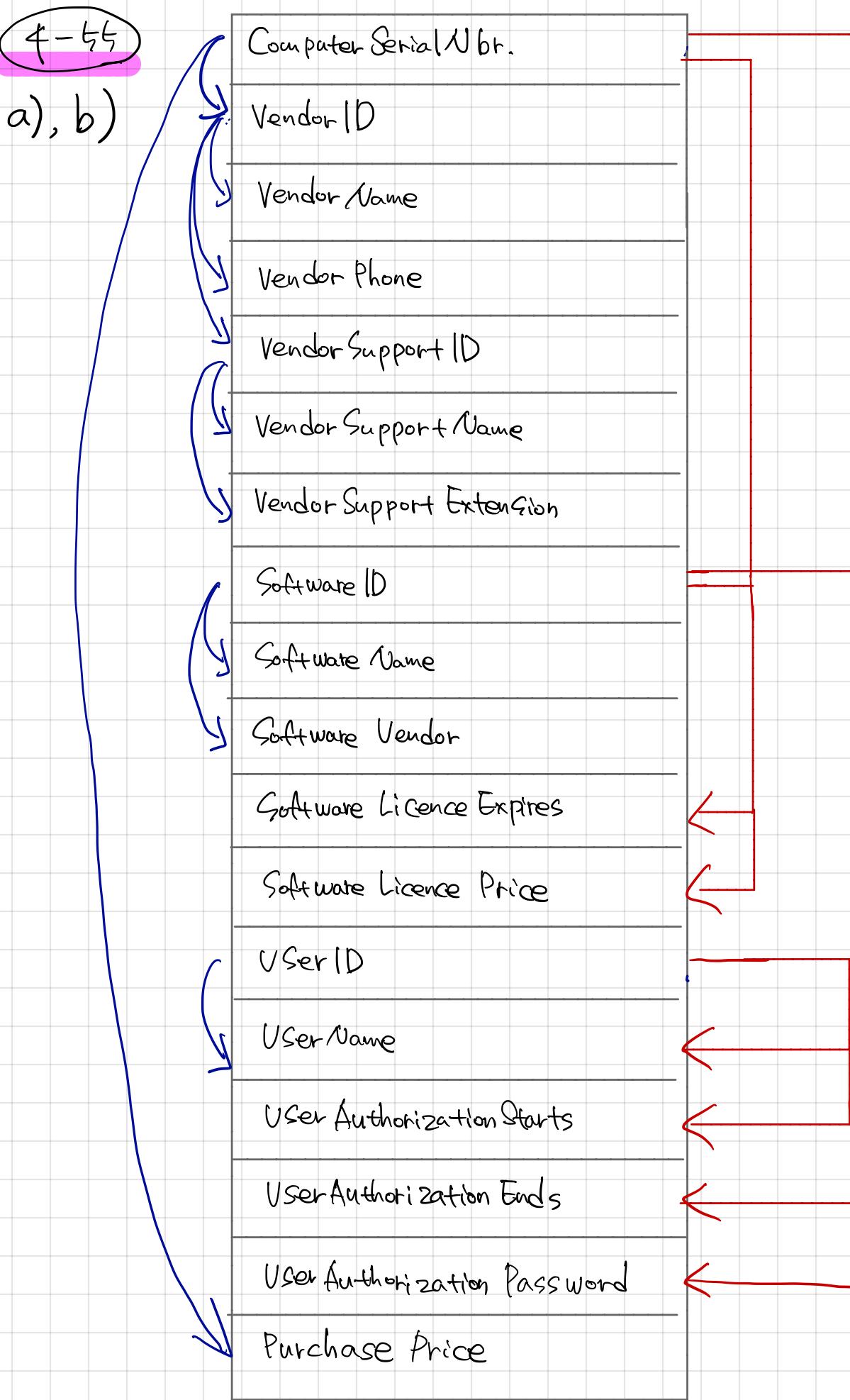
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Attorney	AttorneyID	Name	Address	City	State	ZipCode
Specialty	AttorneyID	Specialty				
Bar	AttorneyID	Bar				
Client	ClientID	Name	Address	City	State	ZipCode
Case	CaselD	Description	CaseType	CourtID		
Retains	AttorneyID	CaselD	ClientID	Date		
Court	CourtID	CourtName	City	State	ZipCode	
Judge	JudgeID	Name	Years	CourtID		



It has partial dependency, transitive dependency

(5)



c)

VENDOR (3NF)

VendorID	Vendor Name	VendorPhone	VendorSupportID
PK			FK

VENDOR SUPPORT

(3NF)

VendorSupportID	VendorSupportName	Vendor Support Extension
PK		

COMPUTER (3NF)

Computer Serial Nbr	Purchase Price	Vendor ID
PK		FK

USER (3NF)

User ID	User Name
PK	

SOFTWARE (3NF)

SoftwareID	Software Name	Software Vendor
PK		

AUTHORIZATION (3NF)

User ID	Computer Serial Nbr	SoftwareID	User Authorization Starts
PK	PK	PK	

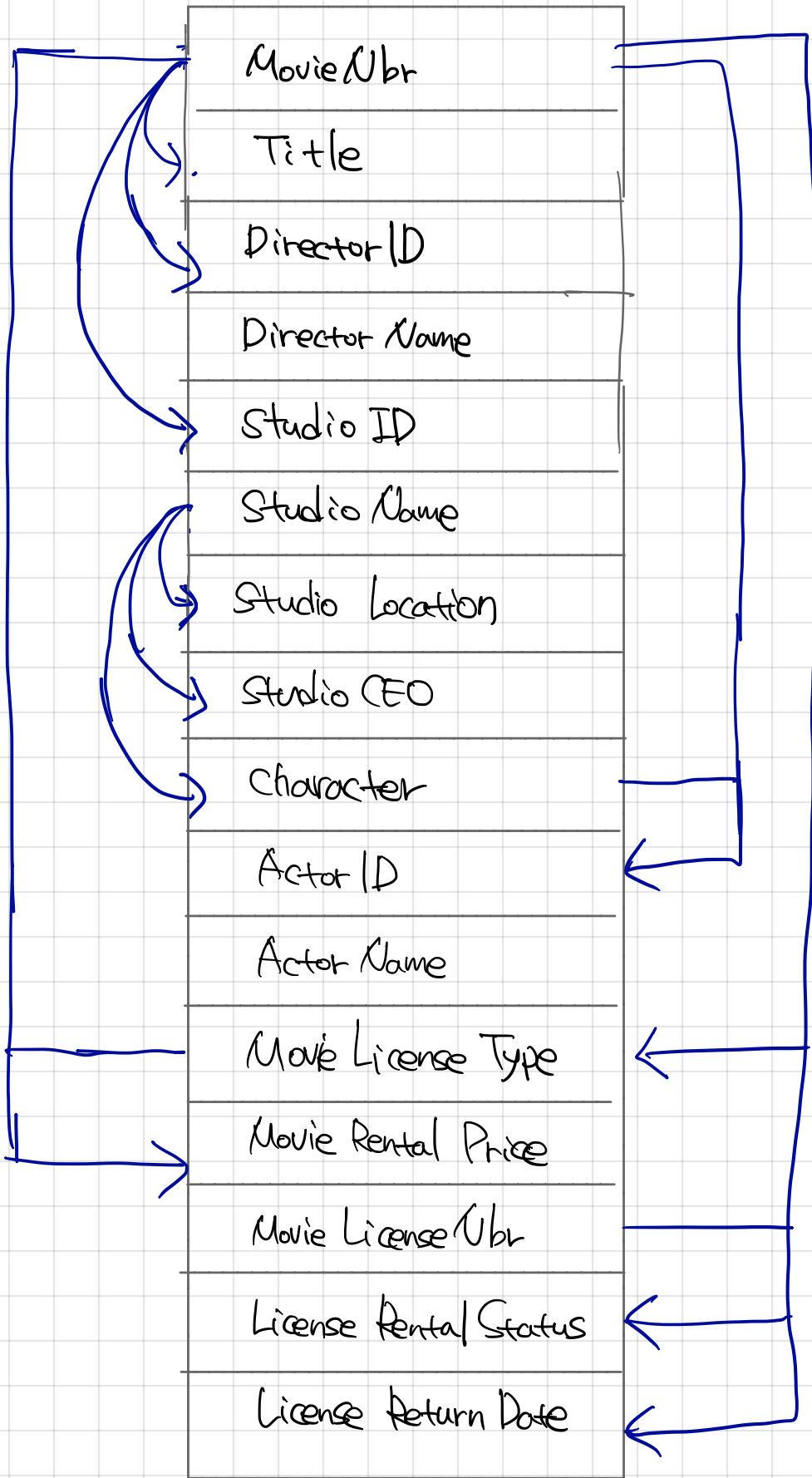
LICENSE (3NF)

SoftwareID	Computer Serial Nbr	Software License Expires	Software License Price
PK	PK		

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a), b) if has partial dependency, Transitive dependency



C)

## MOVIE (3NF)

Movie Nbr	Title	DirectID	StudioID
PK		FK	FK

## DIRECTOR

(3NF)

DirectorID	Director Name
PK	

## STUDIO

(3NF)

StudioID	Studio Name	Studio Location	Studio CEO
PK			

## ACTOR (3NF)

Actor ID	Actor Name
PK	N

## MOVIE CHARACTER

(3NF)

Movie Nbr	Character	Actor ID
PK		FK

## MOVIE LICENCE (3NF)

Movie Nbr	Movie License Nbr	Movie License Type	License Rental Status
FK	PK		

## MOVIE RENTAL PRICE (3NF)

Movie Nbr	Movie License Type	Movie Rental Price
FK		PK