ENSF 608 F23 - Assignment 2 - Question 1 Suggested Solution (13 marks)

PASSENGER (1 mark)

TicketID	LegalName	BookingDate	Street	City	Province	LeadID

CRUISE (1 mark)

Company	ShipName	FlagReg	Captain	NumCrew	DeptDate	Return

PORTLOCATIONS (1 mark)

Company	ShipName	PortLoc

SALE (1 mark)

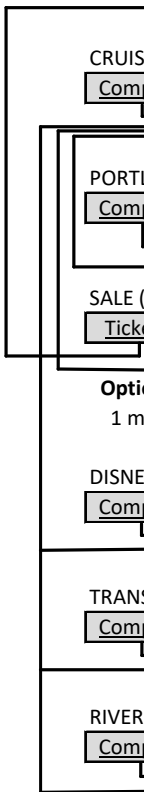| TicketID	Company	ShipName

Option A
1 mark

DISNEY

Company	ShipName	TPVisited

TRANSATLANTIC

Company	ShipName	VisaReq

RIVER

Company	ShipName	Season

Option B
 1 mark

DISNEY

Company	ShipName	FlagReg	Captain	NumCrew	DeptDate	Return	TPVisited

TRANSATLANTIC

Company	ShipName	FlagReg	Captain	NumCrew	DeptDate	Return	VisaReq

RIVER

Company	ShipName	FlagReg	Captain	NumCrew	DeptDate	Return	Season

Option C
 1 mark

CRUISE

Company	ShipName	FlagReg	Captain	NumCrew	DeptDate	Return	CruiseType	TPVisited	VisaReq	Season

Option D
 1 mark

CRUISE

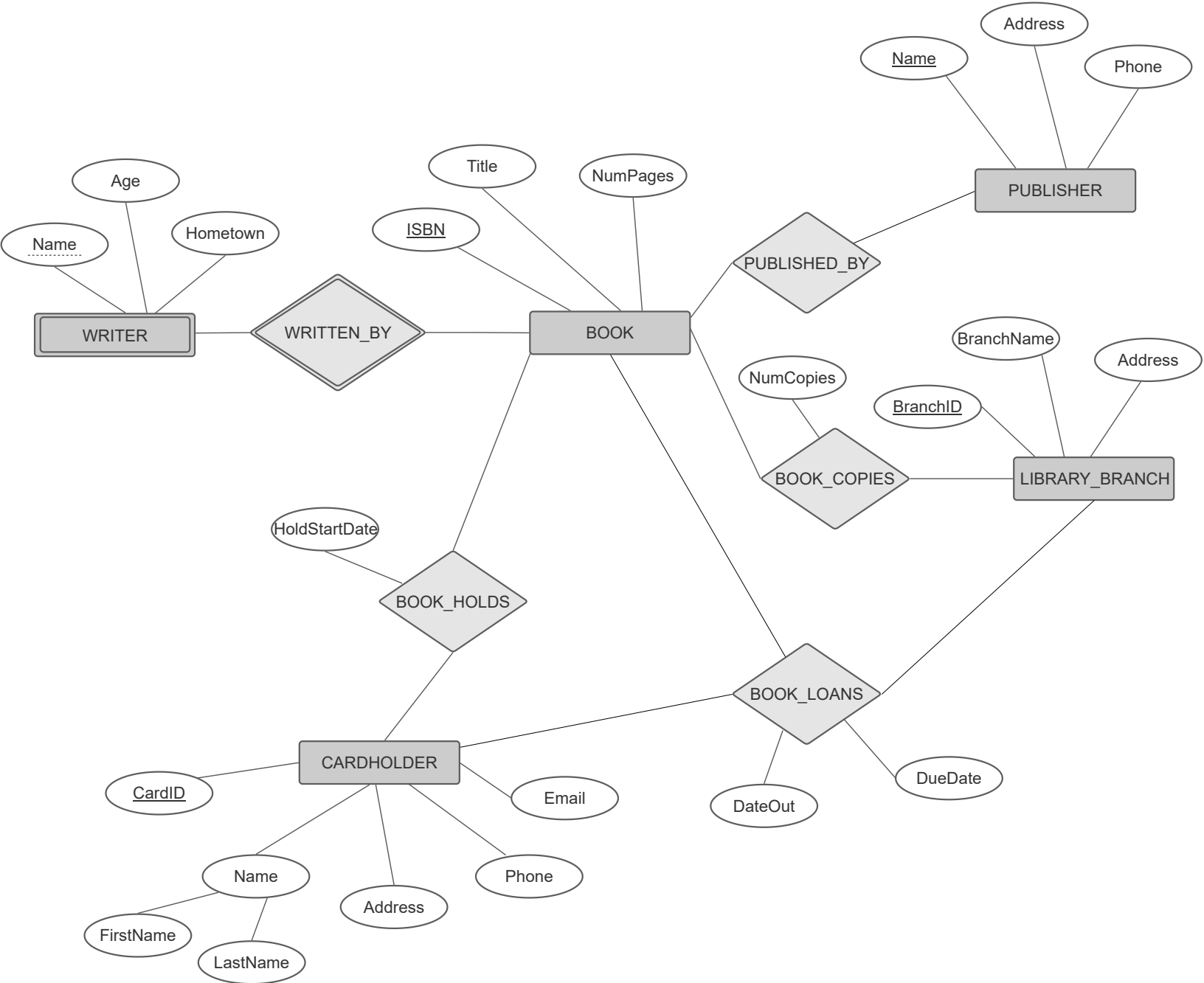| Company	ShipName	FlagReg	Captain	NumCrew	DeptDate	Return	IsDisney	TPVisited	IsTransAt	VisaReq	IsRiver	Season

1 mark for joint primary key
1 mark for neatness/conventions
1 mark for all correct primary keys
2 marks for correct referential integrity arrows.
*Referential integrity only needs to be demonstrated for one version of the specialization.
*CRUISE key is both Company & ShipName- referential integrity should point to both or in-between.

Assignment 2 Q2 Suggested Solution

ENSF 608 Fall 2023

12 marks:

1 mark per correct entity (5 total)

1 mark per correct binary relationship (4 total)

1 for correct primary keys

2 marks for the tertiary relationship