ENSF 608 Assignment #2

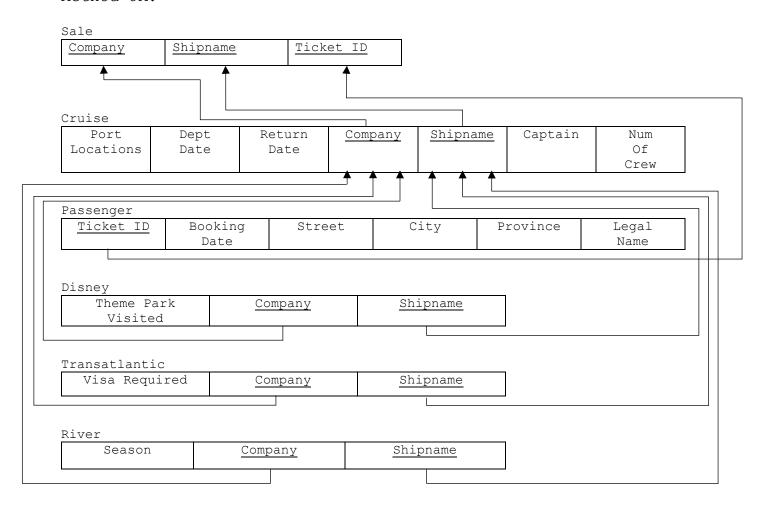
Due Date: October 22, 2023

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Question 1

Method 8A below shows the entire relational schema diagram and referential integrity. Methods 8B, C, and D only show the changes in the model to implement each method.

Method 8A:



Method 8B:

Disney

Port	Dept	Return	Company	Shipname	Captain	Num	Theme
Locations		Date				Of	Park
						Crew	Visited
			Į.				

Transatlantic

Port	Dept	Return	Company	Shipname	Captain	Num	Visa
Locations	Date	Date				Of	Required
						Crew	

River

Port Locations	Dept Date	Return Date	Company	Shipname	Captain	Num Of	Season
						Crew	

Method 8C:

Cruise

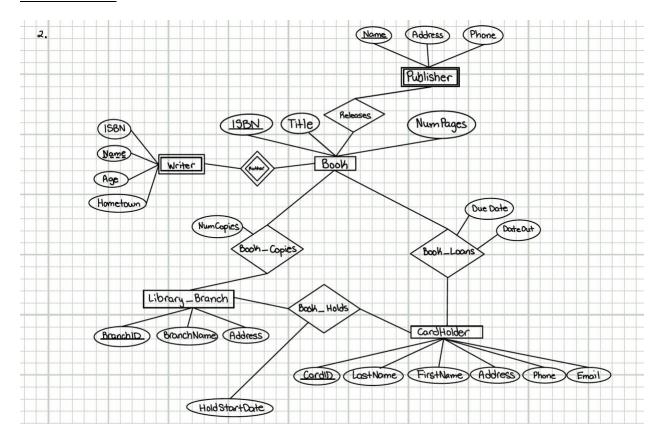
Port	Dept	Return	Company	Shipname	Captain	Cruise	Num	Theme	Visa	Season
Locations	Date	Date				Type	Of	Park	Required	
							Crew	Visited		

Method 8D:

Cruise

Port	Dept	Return	Company	Ship	Captain	Num	D	Theme	T	Visa	R	Season
Locations	Date	Date		name		Of	Flag	Park	Flag	Required	Flag	1
						Crew		Visited				1

Question 2



Assumptions:

- A book has only one publisher, they cannot have the same name as another publisher (therefore name is a primary key)
- A library branch can only have one, unique Branch ID
- A card holder can only have one, unique Card ID
- A book can only have one ISBN, making it a primary key
- Name is the foreign key of Writer because a writer cannot exist without a book to write
- Book copies, book holds, and book loans all represent the relationships between Cardholder, Library Branch, and Book entities