Subject/Odd Sem 2023-23/Experiment 1

Name : Rajat Disawal	Class/Roll No. :D6ADA/13	Grade:
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Title of Experiment: Identify the case study and detailed statement of the problem. Design an Entity-Relationship (ER) / Extended Entity-Relationship (EER) Model.

Objective of Experiment: To design an ER / EER model



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	Practical No.1  Name: Rajat Disawal Class: DEADA/13
#	TITLE: Identify the case study and detailed statement of the problem. Design an Entity-Relationship (ER)/ Extended Entity-Relationship (EER) Model.
	Objective: Jo design on ER/EER model  CASE STUDY: LOGISTICS MANAGEMENT SYSTEM
	PROBLEM STATEMENT: A given logistics company faces a lot of issues due To lack of a proper inventory management system.  Existing system struggles to provide real-time Tracking and co-ordinator. Data inconsistencies delay decisions and finally the logistics chain:
0 .	OBJECTIVE: To design a comprehensive ER model for a dogistical Inventory managenat system.
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	Entity-Relationship Model Design		
0	ENTITIES:		
4	ENTITIES:  • Product: → ProductID → Name		
	→ Description → Weight		
	→ Unit Price → Quantity Stock		
	· Warehouse: > Warehouse ID > Location		
	→ Capacity - Contact Person		
	→ Contact Number		
	· Shipmont: → Shipmont ID → Shipmont Date		
	- Arrival Dote -> Status		
	The state of the s		
111	· Carrier: -> CarrierID> None		
	→ Contact Person → Contact Number		
	→ Fleet Size		
2	RELATIONSHIPS:		
	· Inventory: Connects Product and Warehouse. Represents the products in differt warehouses.		
	in differt warehouses		
	To ant Council Hardran & Shine to Reaven & Tramportaline		
	* Transport: Connects Warehouse and Shipment . Represents transportations		
	· Carrier Assignment: Connects Shipment and Carrier. Represents		
	assignments of carriers.		
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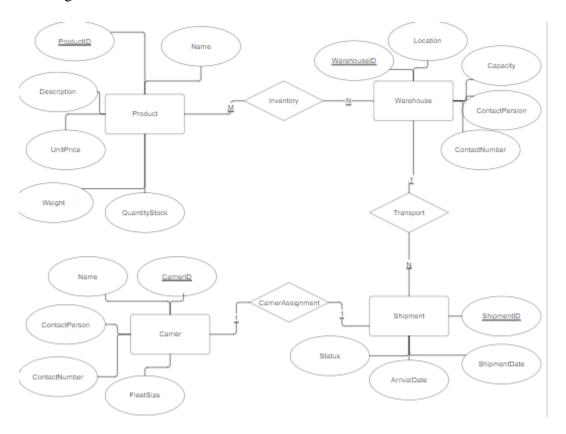


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6	ATTRIBUTES FOR RELATIONSHIPS:	
9	· Inventory: -> Inventory FD  -> Recorder Point	→ Stock Level
	·Teamport: → TeamportID	3 Departure Date
	- Asival Data	» Mode
Ð	· Carrier Assignent: → Assignment ID  → Tooking Number.	- Assignment Date
<b>(4)</b>	· One product to multiple warehouses  · One warehouse to multiple shipments  · One shipment to one carrier (1:1)  · One carrier to multiple shipments (1:N)	(M:N)
6	CONSTRAINTS:  Total participation of Freetory  Portial participation for transport.	
	· Portial Parlicagulos for Franspord.	

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### ER Diagram:



Conclusion: I successfully implemented a case study designing a ER diagram for an Inventory Management System for Logistic purposes.