

# ER DIAGRAM AND RELATIONAL TABLES

## Project : MANIGIFY

Inventory management and Billing system

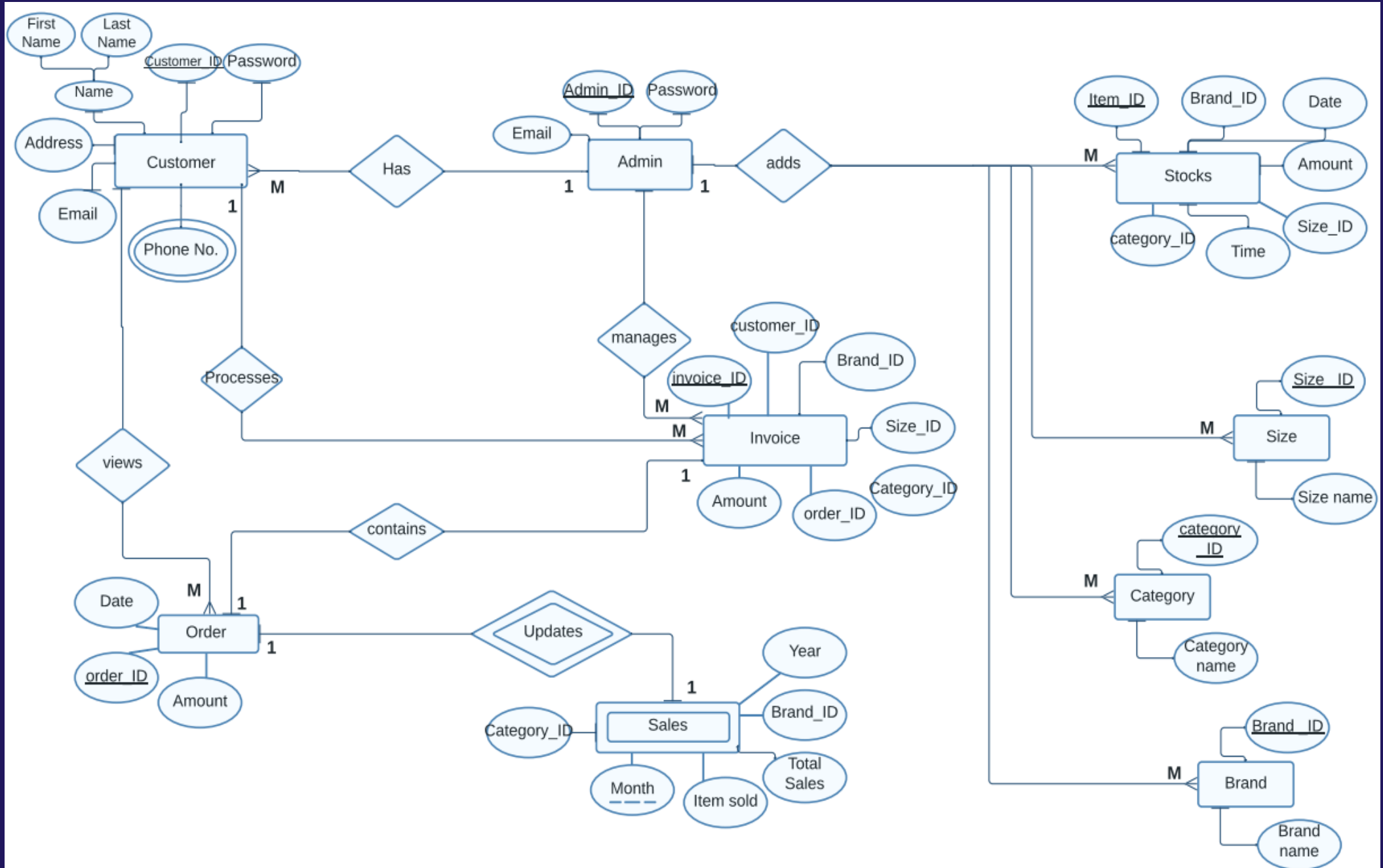
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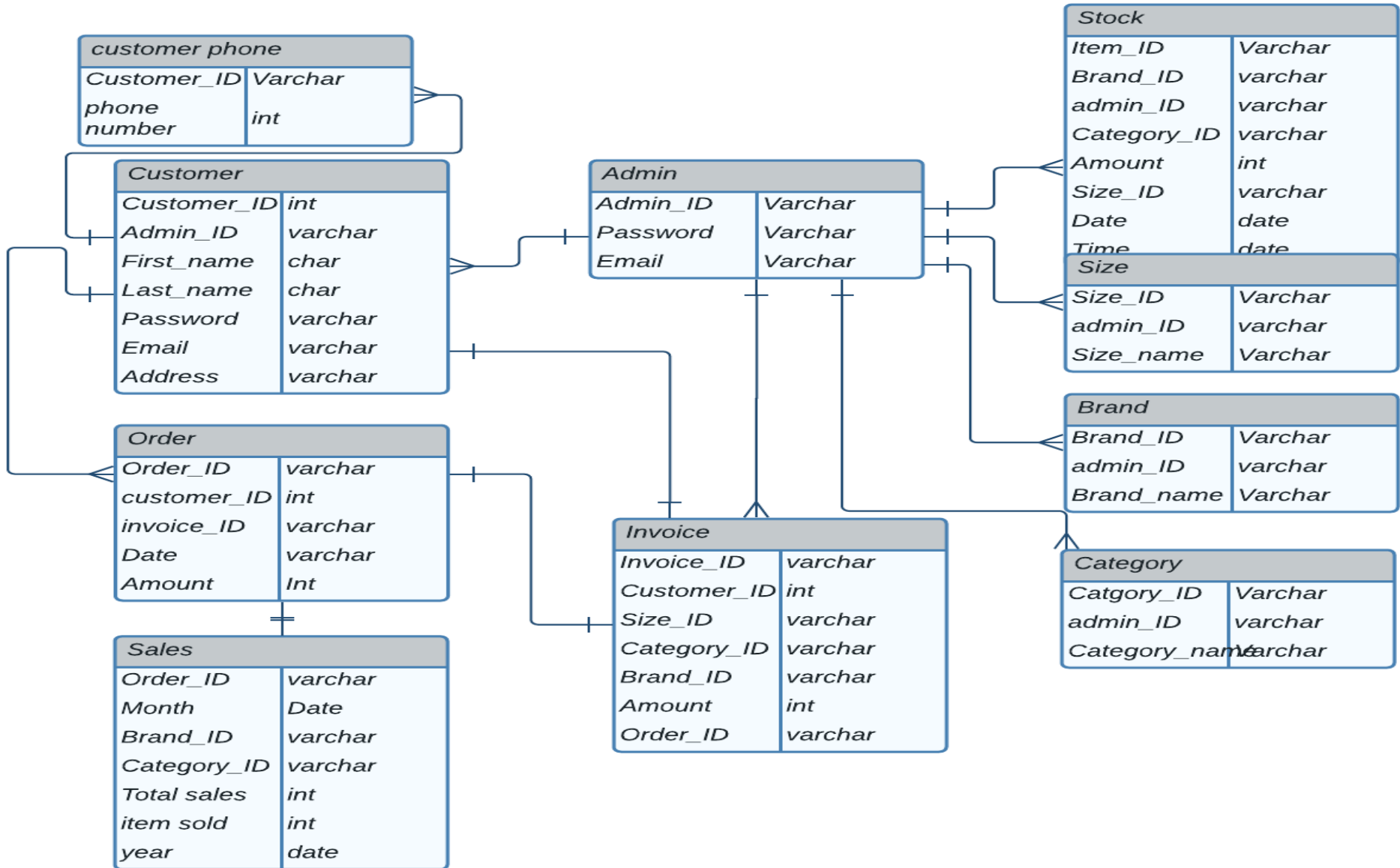
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CSBS\_3

# ER DIAGRAM



# Relational Table



# Customer Table

Field	Description	Type	Length
Customer_ID(PK)	Customer's Username	int	8
First_Name	Customer's First Name	char	25
Last_Name	Customer's Last Name	char	25
Password	Customer's login password	varchar	14
Email	Customer's email	varchar	36
Address	Customer's Address	varchar	365

Here Phone number is a multivariate attribute therefore we will have to create another table for it.

Field	Description	type	Length
Customer_ID(PK)	Customer's Username	int	8
Phone_No	Customer's Number	int	12

# Admin Table

Field	Description	Type	Length
Admin_ID(PK)	Admin's Username	varchar	20
Password	Admin's login password	varchar	14
Email	Admin's email	varchar	36

Handling one to many relation, here Admin has one to many relationship with customer , invoice, size , brand and category => Taking the primary key of one type + customer table

Field	Description	Type	Length
Customer_ID(PK)	Customer's Username	int	8
Admin_ID	Admin's Username	varchar	20
First_Name	Customer's First Name	char	25
Last_Name	Customer's Last Name	char	25
Password	Customer's login password	varchar	14
Email	Customer's email	varchar	36
Address	Customer's Address	varchar	365

# Size table

Field	Description	Type	Length
Size_ID(PK)	Size's ID	varchar	8
Size_name	Size's Name	varchar	50

After handling one to many relationship with admin

Field	Description	Type	Length
Size_ID(PK)	Size's ID	varchar	8
Admin_ID	Admin's Username	varchar	20
Size_name	Size's Name	varchar	50

# Brand table

Field	Description	Type	Length
Brand_ID(PK)	Brand's ID	varchar	8
Brand_name	Brand's Name	varchar	50

After handling one to many relationship with admin

Field	Description	Type	Length
Brand_ID(PK)	Brand's ID	varchar	8
Admin_ID	Admin's Username	varchar	20
Brand_name	Brand's Name	varchar	50

# Category table

Field	Description	Type	Length
Category_ID(PK)	Category's ID	varchar	8
Category_name	Category's Name	varchar	50

After handling one to many relationship with admin

Field	Description	Type	Length
Category_ID(PK)	Category's ID	varchar	8
Admin_ID	Admin's Username	varchar	20
Category_name	Category's Name	varchar	50



# Stocks

Field	Description	Type	Length
Item_ID(PK)	Item's ID	varchar	8
Brand_ID(FK)	Brand's ID	varchar	50
Category_ID(FK)	Item's Category	varchar	20
Amount	Item's Amount	int	40
Size_ID(FK)	Item's Size ID	varchar	20
time	time	Date	8
Date	Item's Date	date	8

Field	Description	Type	Length
Item_ID	Item's Username	varchar	8
Admin_ID	Admin's Username	varchar	20
Password	Admin's login password	varchar	14
Email	Admin's email	varchar	36

# Order

Field	Description	Type	Length
Order_ID(PK)	Order's ID	varchar	8
Order_date	Order's date	varchar	50
Amount	Order's Amount	int	20

Order has one to one relationship with invoice , and many to one with customer

Field	Description	Type	Length
Invoice_ID	Invoice's ID	varchar	8
Customer_ID	Customer's Username	int	8
Order_ID(PK)	Order's ID	varchar	8
Order_date	Order's date	varchar	50
Amount	Order's Amount	int	20

# Invoice

Invoice has one to one relation with customer and order ,many to one with admin

Field	Description	Type	Length
Invoice_ID(PK)	Invoice's ID	varchar	8
Customer_ID	Customer's Username	varchar	50
Admin_ID	Admin's Username	varchar	20
Brand_ID(FK)	Brand's ID	varchar	20
Category_ID(FK)	Category's ID	varchar	400
Size_ID(FK)	Item's Size ID	varchar	20
Order_ID(FK)	Order's ID	varchar	30
Amount	Amount	Int	10
Phone_number	Customer's Phone number	int	12

# Sales

Field	Description	Type	Length
Brand_ID	Brand's ID	varchar	8
Items_sold	Item's Sold	int	10
Month	Month	varchar	12
Total Sales	Total Sales of items	int	14
Year	Year	int	36

Sales is weak entity , i.e it doesn't have any primary key and is dependent on order

Field	Description	Type	Length
Order_ID(PK)	Order's ID	varchar	8
Brand_ID	Brand's ID	varchar	8
Items_sold	Item's Sold	int	10
Month	Month	varchar	12
Total Sales	Total Sales of items	int	14
Year	Year	int	36