

Name of Project: Online Video Game Store

Team: Make Database Great Again (14)

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The Mapping From ER Diagram To Relations:

Customer(id: int, name: varchar(20), P.No: int, email: varchar(20), address: varchar(30), points: int, username: varchar(20), password: varchar(20), privilege.lvl: int) → Customer

Employee(id: int, name: varchar(20), salary: float, Dept.No: int, phone: int, SID: int) → Employee('Work_For' Department)

Department(Dept.No: int, name: varchar(20), phone: int) → Department(be 'Work_For' by Employee)

Company(id: int, name: varchar(20), country: varchar(20)) → Company

Transaction(Tid: int, CusID: int, ProdID: int, rating: int, date: date) → Transaction('made' by Customer and 'involve' Product)

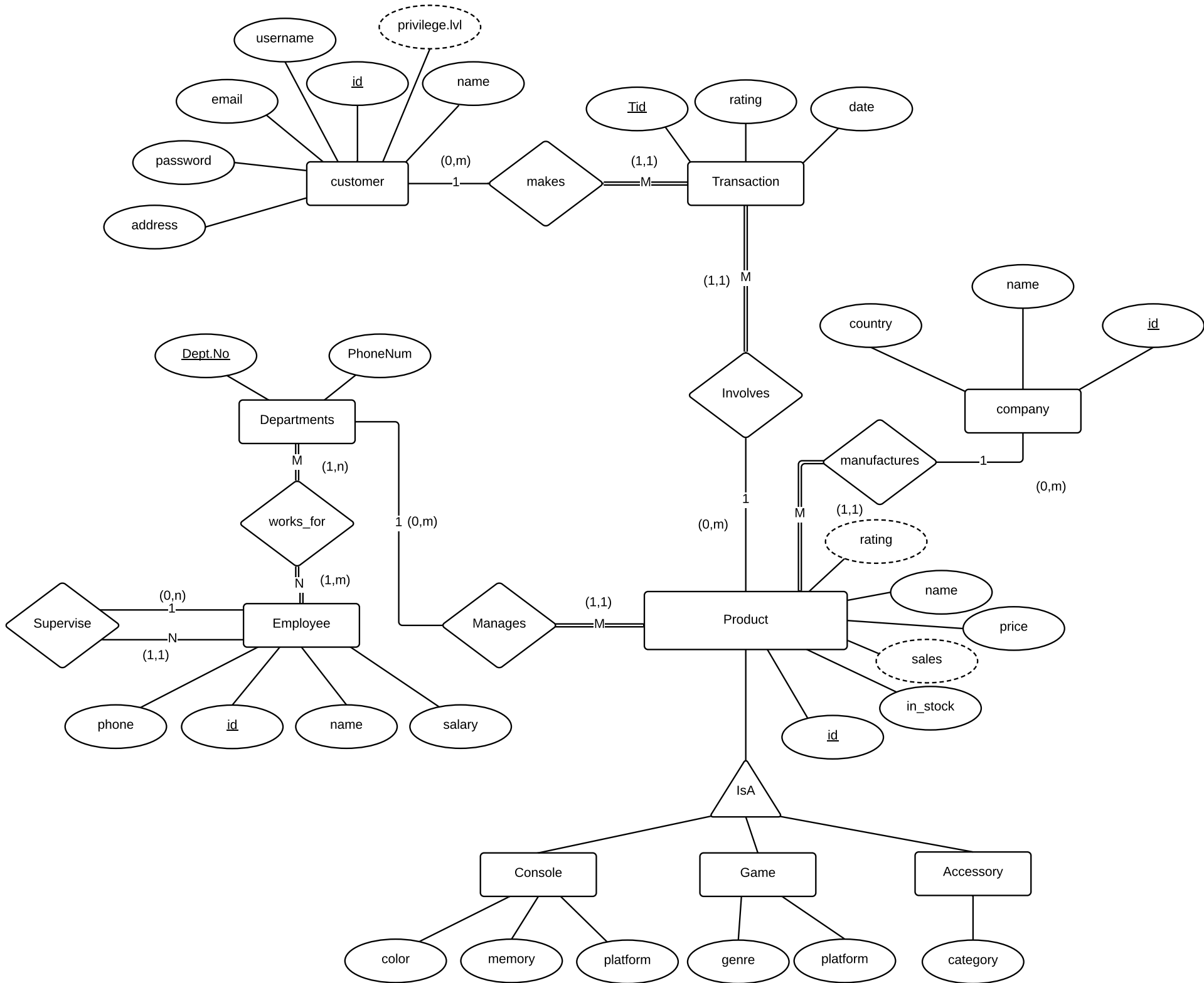
Product(id: int, name: varchar(20), CompanyID: int, price: money, stock: int, sales: int, rating: float, EID:int) → Product('manufactured' by Company and 'Managed' by Department)

Game(id: int, name: varchar(20), platform: varchar(20), genre varchar(20)) → Game('is a' Product)

Console(id: int, name: varchar(20), platform: varchar(20), color: varchar(20), memory: varchar(10)) → Console('is a' Product)

Accessory(id: int, name: varchar(20), category: varchar(20)) → Accessory('is a' Product)

Our relation table has exceeded professor's expectation, so we think we can get some extra credits for it! ;-)



Customer

ID	Name	P.No	Address	Username	Email	Password	Points	Privilege.lvl
INTEGER NOT NULL --Unique id for each customer	VARCHAR(30) NOT NULL --Customer's name	VARCHAR(11) NOT NULL --Customer's phone number	VARCHAR(30) NOT NULL --Customer's address	VARCHAR(20) NOT NULL --ID when logging into the store's website	VARCHAR(30) NOT NULL --basic information about the customer	VARCHAR(20) NOT NULL --Password associated with user ID for account.	INTEGER DEFAULT 0 --Total points recieved from purchases	INTEGER NOT NULL --Indicates the level of the customer. --Each level is corresponding to a different discount. --Privilege granted based on points earned.

Employee

ID	Name	Salary	Phone	DepartmentID	SID
INTEGER NOT NULL --Unique id for each employee	VARCHAR(30) NOT NULL --Employee's name	FLOAT DEFAULT 0 --How much the employee make	VARCHAR(11) NOT NULL --Employee's phone number	INTEGER NOT NULL --The id of which department the employee works for	INTEGER NOT NULL --ID of the supervisor of the employee

Departments

Dept.NO	Name	Phone
INTEGER NOT NULL --Unique id for each department	VARCHAR(30) NOT NULL --Department's Name	VARCHAR(11) NOT NULL --Department's phone number

Company

ID	Name	Country
INTEGER NOT NULL --Unique id for each company	VARCHAR(30) NOT NULL --Name of Company	VARCHAR(20) NOT NULL --Country the company belongs to

Transaction

Tid	CusId	Proid	Rating	Date
INTEGER NOT NULL --Unique for each transaction	INTEGER DEFAULT "unknown" --ID of the customer who buys the product	FLOAT DEFAULT "unknown" --ID of the product that customer buys	INTEGER --the rating customer makes to this transaction ranging from 1 star to 5 star	DATE --Day the transaction was made

Products

ID	Name	Stock	Sales	Price	Rating	CompanyID	DID
INTEGER NOT NULL --Unique id for each product	VARCHAR(30) NOT NULL --Name of the Product,	INTEGER DEFAULT 0 --The number of product in stock	INTEGER DEFAULT 0 --The number of product sold, can be derived by the stock and the number of trasactions involving the product	FLOAT DEFAULT 0.0 --Price of the product	FLOAT (1,1) DEFAULT 0.0 --Derived from the average of the ratings made in transactions involving the product can be null	INTEGER NOT NULL DEFAULT 0 --unique id for company	INTEGER NOT NULL DEFAULT 1 -- stock department --ID of the department manages the product

Game

ID	Name	Platform	Genre
INTEGER NOT NULL --Unique id for each game	VARCHAR(30) NOT NULL --Name of the game	VARCHAR(20) NOT NULL --name of avialable platform for the game	VARCHAR(20) NOT NULL --Genre of the game

Console

ID	Name	Platform	Color	Memory
INTEGER NOT NULL --Unique id for each console	VARCHAR(30) NOT NULL --Name of the console	VARCHAR(20) NOT NULL --Type of console (Xbox, Ps4, etc)	VARCHAR(20) DEFAULT "unknown" --Color of the console	VARCHAR(10) DEFAULT "unknown" --Advanced information of the console

Accessory

ID	Name	Category
INTEGER NOT NULL --Unique id for accessory products	VARCHAR(30) NOT NULL --Name of the accessory	VARCHAR(20) DEFAULT "unknown" --Type of the accessory