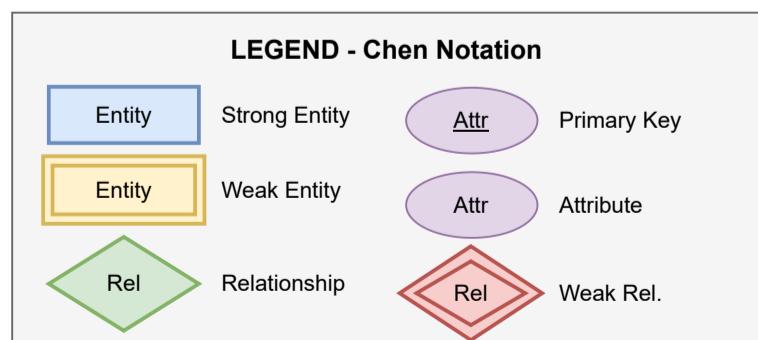
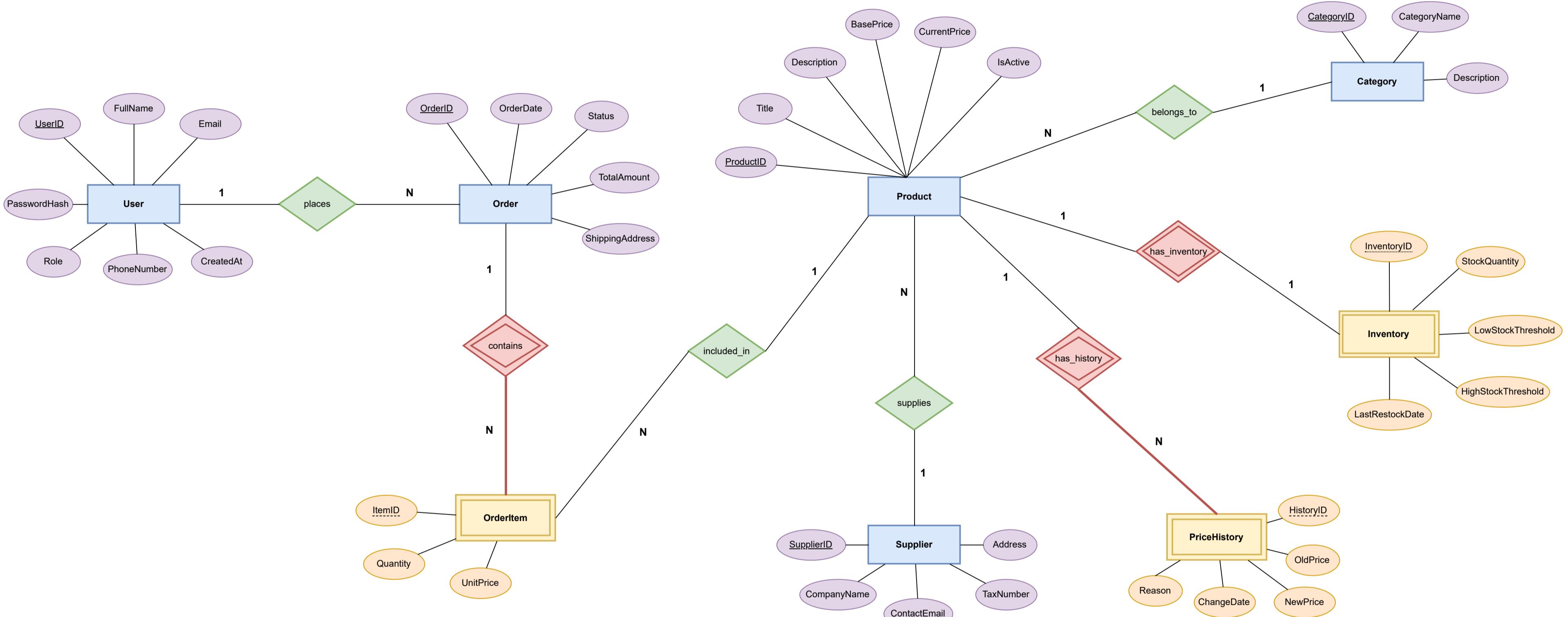


# Dynamic Pricing and Inventory Management System

## Entity-Relationship Diagram



## Sample Tables Populated with Dummy Data

The following tables demonstrate the database schema populated with dummy data to simulate a real-world "Dynamic Pricing" scenario (e.g., price increase due to low stock). Some columns (e.g., PasswordHash, CreatedAt, Address) are omitted for brevity.

### User

<u>UserID</u>	FullName	Email	Role	PhoneNumber
1	Nurettin Macit	macit@gmail.com	seller	5551234567
2	Muhammed Özdemir	admin@admin.com	admin	5051234567
3	Bilal Cebeci	bilal@gmail.com	customer	5311234567

### Category

<u>CategoryID</u>	CategoryName	Description
1	Elektronik	...
2	Giyim	...
3	Spor	...

### Supplier

<u>SupplierID</u>	CompanyName	ContactEmail	TaxNumber
1	Cebeci A.Ş.	info@cebeci.com	123456789
2	Macit Giyim	satis@macit.com	987654321

### Product

<u>ProductID</u>	Title	BasePrice	CurrentPrice	IsActive	<u>CategoryID (FK)</u>	<u>SupplierID (FK)</u>
1	iPhone15	45000	47500	true	1	1
2	Bosch Buzdolabı	70000	70000	true	1	1
3	Adidas T-shirt	1200	1100	true	2	2
4	Futbol Topu	800	900	true	3	2

### PriceHistory

<u>HistoryID</u>	<u>ProductID (FK)</u>	OldPrice	NewPrice	ChangeDate	Reason
1	1	45000	47500	2025-12-08	low_stock
2	3	1200	1100	2025-12-09	campaign
3	4	800	900	2025-12-11	low_stock

### Inventory

<u>InventoryID</u>	<u>ProductID (FK)</u>	StockQuantity	LowStockThreshold	HighStockThreshold
1	1	5	10	100
2	2	45	10	100
3	3	120	20	200
4	4	8	15	80

### Order

<u>OrderID</u>	<u>UserID (FK)</u>	OrderDate	Status	TotalAmount	ShippingAddress
1	3	2025-12-10	completed	47500	Maslak,İstanbul
2	3	2025-12-11	pending	2700	Maslak,İstanbul

### OrderItem

<u>ItemID</u>	<u>OrderID (FK)</u>	<u>ProductID (FK)</u>	Quantity	UnitPrice
1	1	1	1	47500
2	2	3	1	1100
3	2	4	2	800

Notation Key:

**Bold & Underlined**: Primary Key (PK) --> UserID

(FK): Foreign Key relation --> CategoryID (FK)