POS System – Database Tables

Categories

Column	Type	Notes
CategoryID	int (PK)	Identity
Name	varchar(100)	
Description	varchar(255)	Nullable

Products

Column	Type	Notes
ProductID	int (PK)	Identity
CategoryID	int (FK)	
Name	varchar(150)	
Barcode	varchar(50)	Unique
SKU	varchar(50)	
CostPrice	decimal(10,2)	
SalePrice	decimal(10,2)	
TaxRate	decimal(4,2)	
StockQty	int	
IsActive	bit	

Suppliers

Column	Type	Notes
SupplierID	int (PK)	
Name	varchar(150)	
Phone	varchar(50)	
Email	varchar(150)	
Address	varchar(255)	

Customers

Column	Type	Notes
CustomerID	int (PK)	
Name	varchar(150)	
Phone	varchar(50)	
Email	varchar(150)	Nullable
Address	varchar(255)	Nullable
LoyaltyPoints	int	

Purchases

Column	Type	Notes
PurchaseID	int (PK)	
SupplierID	int (FK)	
PurchaseDate	datetime	
TotalAmount	decimal(12,2)	

PurchaseItems

Column	Type	Notes
PurchaseItemID	int (PK)	
PurchaseID	int (FK)	
ProductID	int (FK)	
Quantity	int	
UnitCost	decimal(10,2)	

Sales

Column	Type	Notes
SaleID	int (PK)	
InvoiceNo	varchar(50)	Unique
SaleDate	datetime	
UserID	int (FK)	
CustomerID	int (FK)	Nullable
TotalAmount	decimal(12,2)	
PaymentMethod	varchar(50)	

SaleItems

Column	Type	Notes
SaleItemID	int (PK)	
SaleID	int (FK)	
ProductID	int (FK)	
Quantity	int	
UnitPrice	decimal(10,2)	
Discount	decimal(10,2)	

Column	Type	Notes
SaleItemID	int (PK)	
SaleID	int (FK)	
ProductID	int (FK)	
Quantity	int	
UnitPrice	decimal(10,2)	
Discount	decimal(10,2)	

Users

Column	Type	Notes
UserID	int (PK)	
Username	varchar(100)	Unique
PasswordHash	varchar(255)	
FullName	varchar(150)	
RoleID	int (FK)	
IsActive	bit	

Column	Type	Notes

Roles

Column	Type	Notes
RoleID	int (PK)	
RoleName	varchar(50)	
Permissions	varchar(max)	JSON / Bitmask

Column	Type	Notes
RoleID	int (PK)	
RoleName	varchar(50)	
Permissions	varchar(max)	JSON / Bitmask

StockAdjustments

Column	Type	Notes
AdjustmentID	int (PK)	
ProductID	int (FK)	
QuantityChange	int	+ / -
Reason	varchar(255)	
Date	datetime	
UserID	int (FK)	