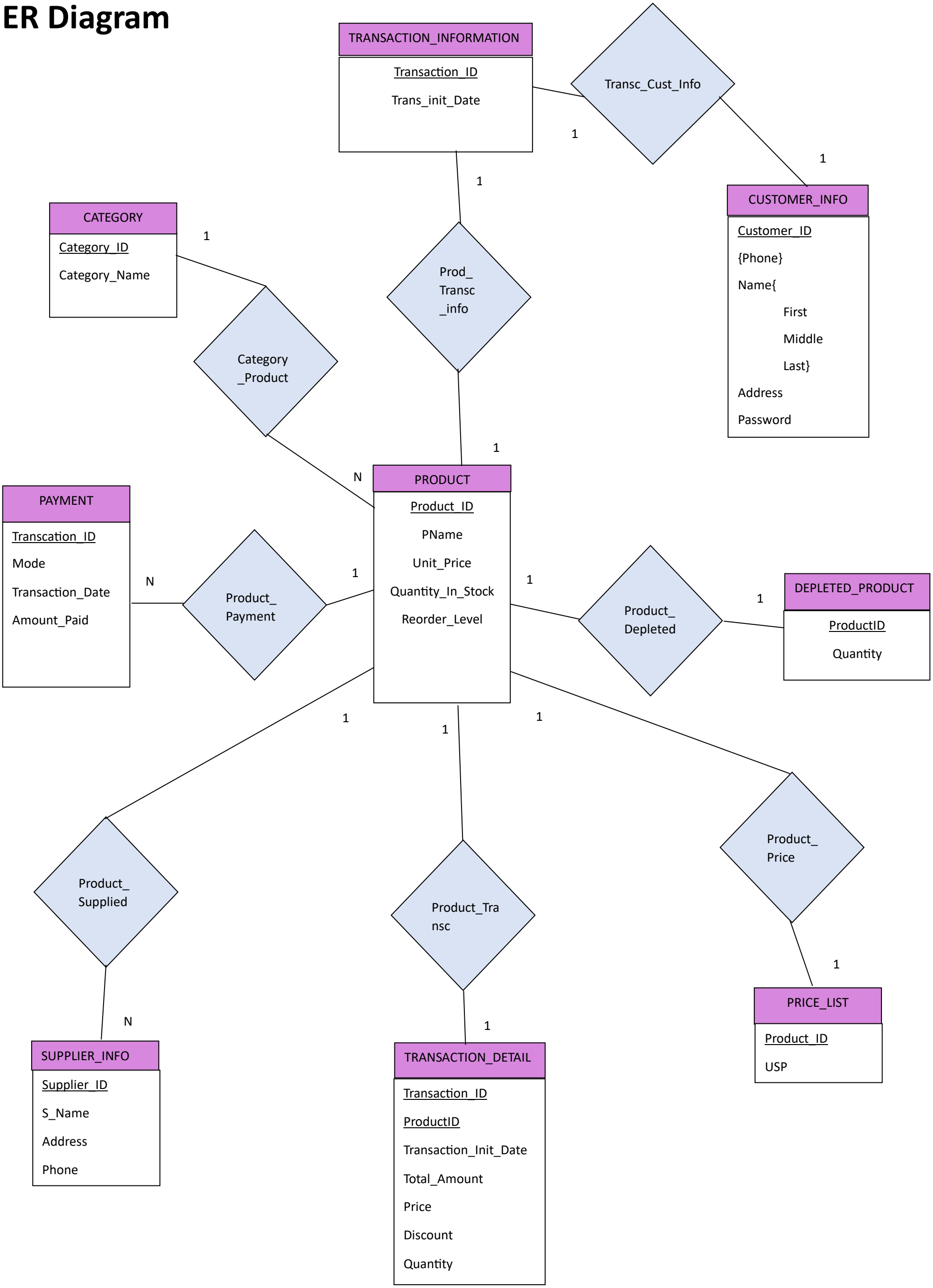
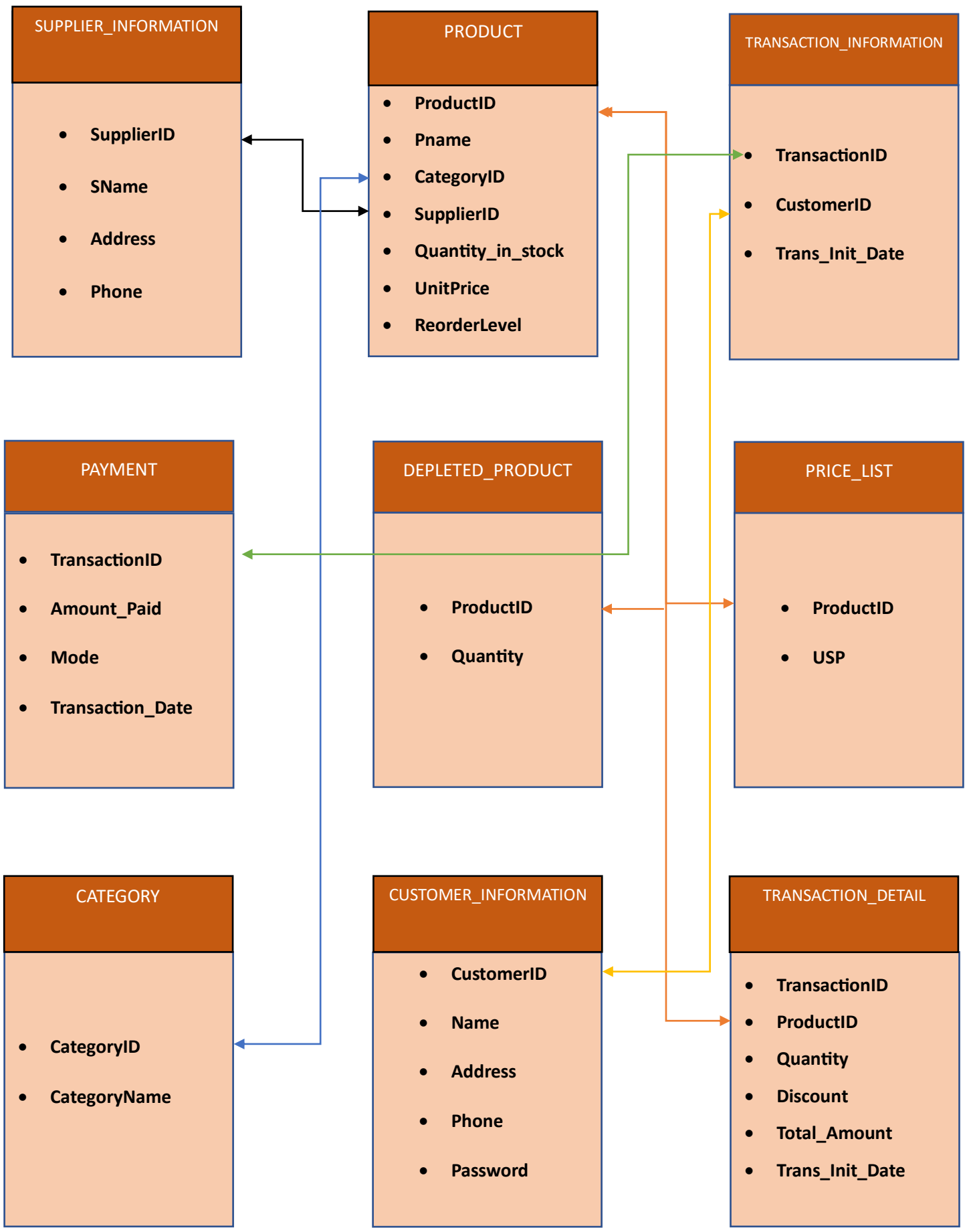
ER Diagram


TRANSACTION_INFORMATION
Transaction_ID
Trans_init_Date
Transc_Cust_Info
1
1
1
CUSTOMER_INFO
Customer_ID
{Phone}
Name{
First
Middle
Last}
Address
Password
CATEGORY
Category_ID
Category_Name
1
Category
_Product
Prod_
Transc
_info
1
N
PRODUCT
Product_ID
PName
Unit_Price
Quantity_In_Stock
Reorder_Level
PAYMENT
Transcation_ID
Mode
Transaction_Date
Amount_Paid
N
Product_
Payment
1
1
Product_
Depleted
1
DEPLETED_PRODUCT
ProductID
Quantity
1
1
1
Product_
Supplied
Product_Tra
nsc
Product_
Price
N
1
1
SUPPLIER_INFO
Supplier_ID
S_Name
Address
Phone
TRANSACTION_DETAIL
Transaction_ID
ProductID
Transaction_Init_Date
Total_Amount
Price
Discount
Quantity
PRICE_LIST
Product_ID
USP

Schema Diagram



SCHEMA DIAGRAM

*Supplier_Information (**SupplierID**, SName ,Address,Phone)*

*Product(**ProductID**,Pname,CategoryID,SupplierID,Quantity_in_stock,UnitPrice,ReorderLevel)*

- *CategoryID References Category*

*Depleted_Product(**ProductID**,Quantity)*

- *ProductID References Product*

*Product(**ProductID**,USP)*

- *ProductID References Product*

*Category(**CategoryID**,CategoryName)*

*Customer_Information(**CustomerID**,Name,Address,Phone,Password)*

*Transaction_Information (**TransactionID**, CustomerID ,Trans_Init_Date)*

- *CustomerID References Customer_Information*

*Payment(**TransactionID**,Amount_Paid,Mode,Transaction_Date)*

- *TransactionID References Transaction_Information*

*Transaction_Detail(**TransactionID**,ProductID,Quantity,Discount,Total_Amount,Trans_Init, Date)*

- *TransactionID References Transaction_Information*
- *ProductID References Product*

Data Dictionary

Product

Column	Data type (size)
ProductID	int(10)
Pname	varchar(30)
CategoryID	int(10)
SupplierID	int(10)
Quantity_in_stock	int(10)
UnitPrice	int(10)
ReorderLevel	int(10)

Supplier Information

Column	Data type (size)
SupplierID	int(10)
SName	varchar(30)
Address	varchar(50)
Phone	varchar(10)

Payment

Column	Data type (size)
TransactionID	int(10)
Amount Paid	int(10)
Mode	varchar(30)
Transaction_Date	Date

Category

Column	Data type (size)
CategoryID	int(10)
Category Name	varchar(30)

Customer Information

Column	Data type (size)
CustomerID	varchar(30)
Name	varchar(30)
Address	varchar(50)
Phone	int(10)
Password	varchar(30)

Depleted Product

Column	Data type (size)
ProductID	int(10)
Quantity	int(10)

Transaction Information

Column	Data type (size)
TransactionID	int(10)
CustomerID	varchar(30)
Trans_Init_Date	Date

Price List

Column	Data type (size)
ProductID	int(10)
USP	int(10)

Transaction Detail

Column	Data type (size)
TransactionID	int(10)
ProductID	int(10)
Quantity	int(10)
Discount	int(10)
Total_Amount	int(10)
Trans_Init_Date	Date

Software Requirement Specification

- **Backend (Database):** SQL+
- **Backend (Programming Language):** Python
- **Backend (Development Environment):** Spyder
- **Frontend:** Streamlit

Team

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