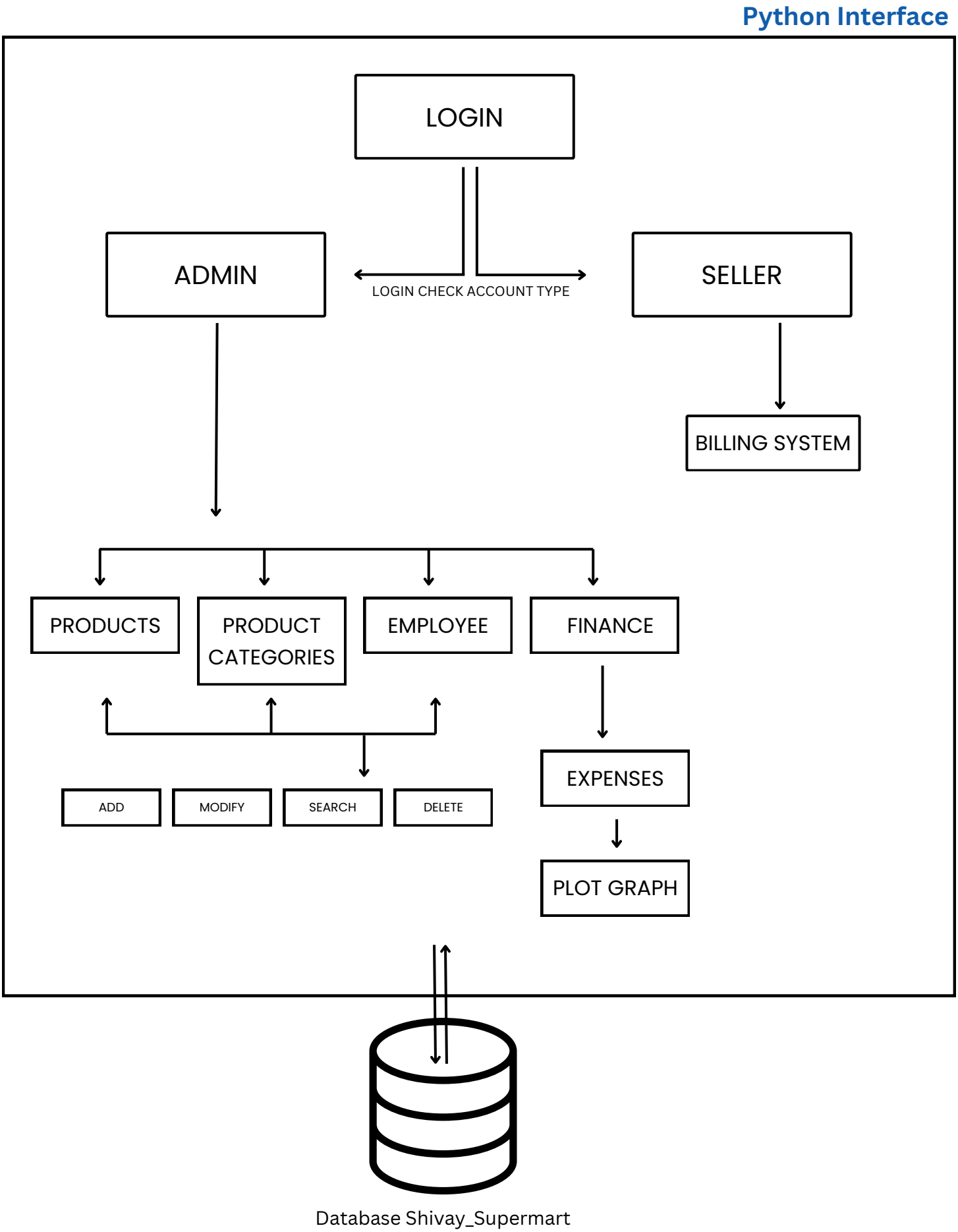
Data Flow Diagram



Database Design and Table Structure

- **Table Name - userdata**

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
email	varchar(50)	YES		NULL	
username	varchar(100)	YES		NULL	
password	varchar(50)	YES		NULL	
account_type	varchar(20)	YES		NULL	

- **Table Name - products**

Field	Type	Null	Key	Default	Extra
Product_ID	char(5)	NO	PRI	NULL	
Category	varchar(50)	YES		NULL	
Product_Company	varchar(30)	YES		NULL	
Product_Name	varchar(40)	YES		NULL	
Price	int	YES		NULL	
quantity	int	YES		NULL	
product_status	varchar(30)	YES		NULL	

- **Table Name - product_category**

Field	Type	Null	Key	Default	Extra
Serial_Number	char(3)	NO	PRI	NULL	
Category_Name	text	YES		NULL	
Total_Products	int	YES		NULL	
Description	text	YES		NULL	

- **Table Name - employee**

Field	Type	Null	Key	Default	Extra
EmployeeID	char(4)	NO		NULL	
FirstName	varchar(50)	YES		NULL	
LastName	varchar(50)	YES		NULL	
username	varchar(20)	YES		NULL	
password	varchar(20)	YES		NULL	
DateOfBirth	date	YES		NULL	
gender	char(6)	YES		NULL	
HireDate	date	YES		NULL	
JobTitle	varchar(100)	YES		NULL	
Salary	decimal(10,2)	YES		NULL	
Email	varchar(100)	YES		NULL	
PhoneNum...	varchar(20)	YES		NULL	
address	varchar(100)	YES		NULL	

- **Table Name - customer**

Field	Type	Null	Key	Default	Extra
Customer_Name	varchar(100)	YES		NULL	
Phone_Number	varchar(20)	YES		NULL	

SQL Code

1. Create table userdata
(
id int auto_increment primary key,
email varchar(50),
username varchar(100),
password varchar(50),
account_type varchar(20)
);

2. Create table products
(
Product_ID char(5) primary key,
Category varchar(50),
Product_Company varchar(30),
Product_Name varchar(40),
Price int,
quantity int,
product_status varchar(30)
);

3. Create table product_category
(
Serial_Number char(3) primary key,
Category_Name text,
Total_Products int,
Description text
);

4. Create table employee
(
EmployeeID char(4),
FirstName varchar(50),
LastName varchar(50),
username varchar(20),
password varchar(20),
DateOfBirth date,
gender char(6),
HireDate date,
JobTitle varchar(100),
Salary decimal(10,2),
Email varchar(100),
PhoneNumber varchar(20),
address varchar(100)
);

5. Create table customer
(
Customer_Name varchar(100),
Phone_Number varchar(20)
);