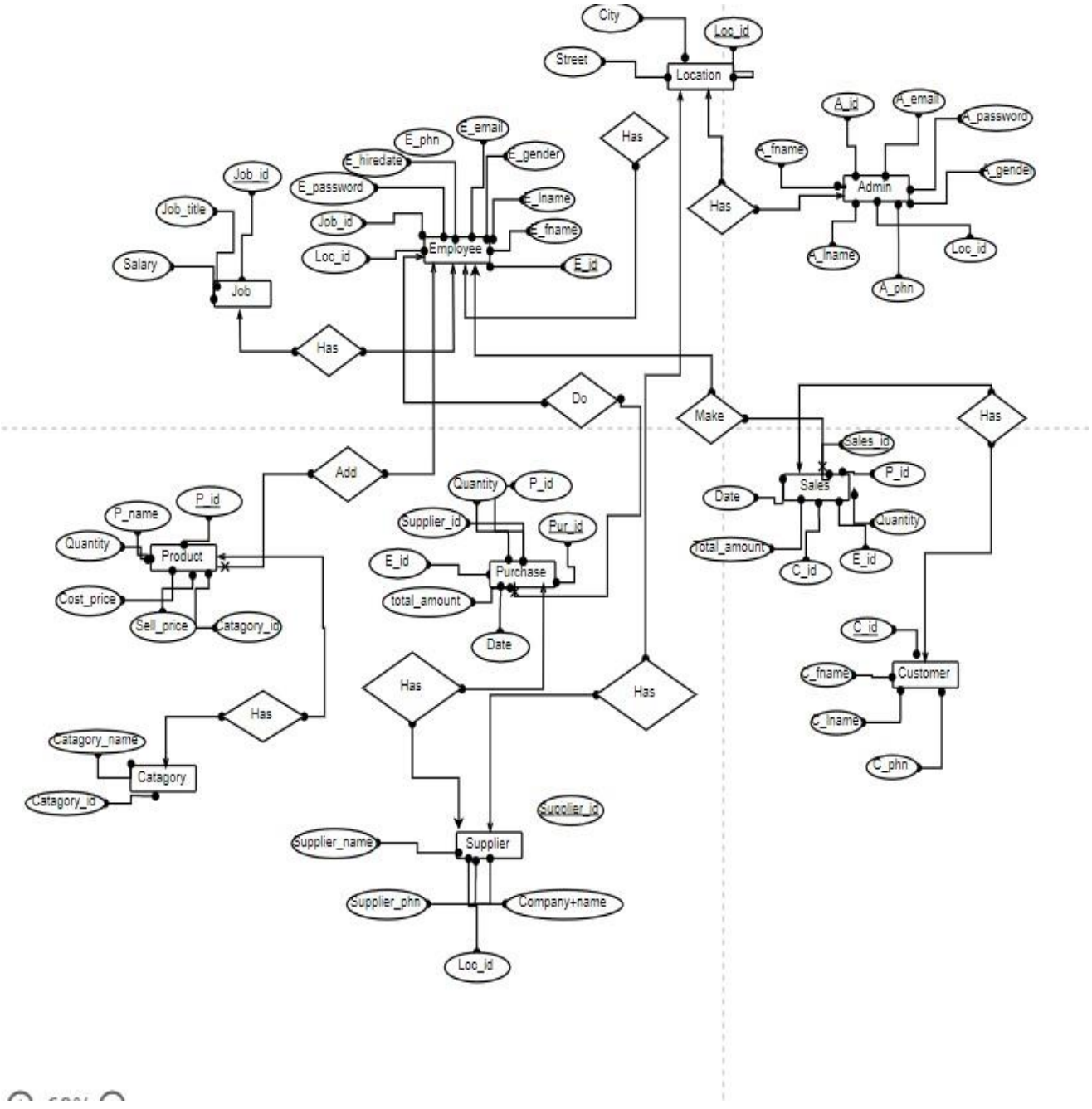
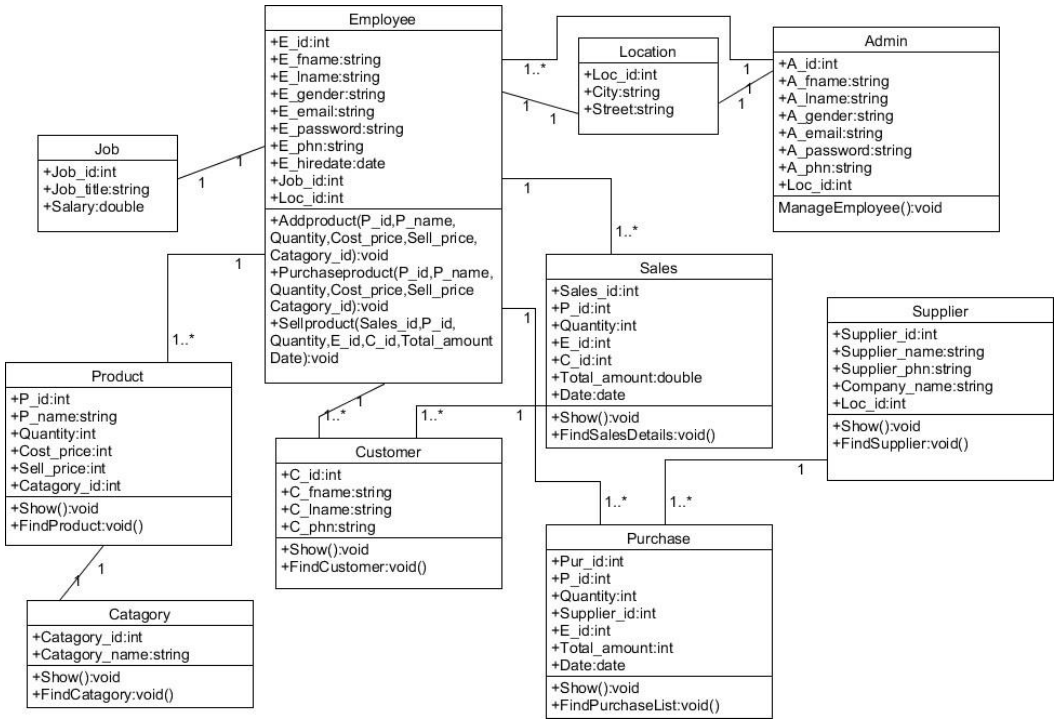
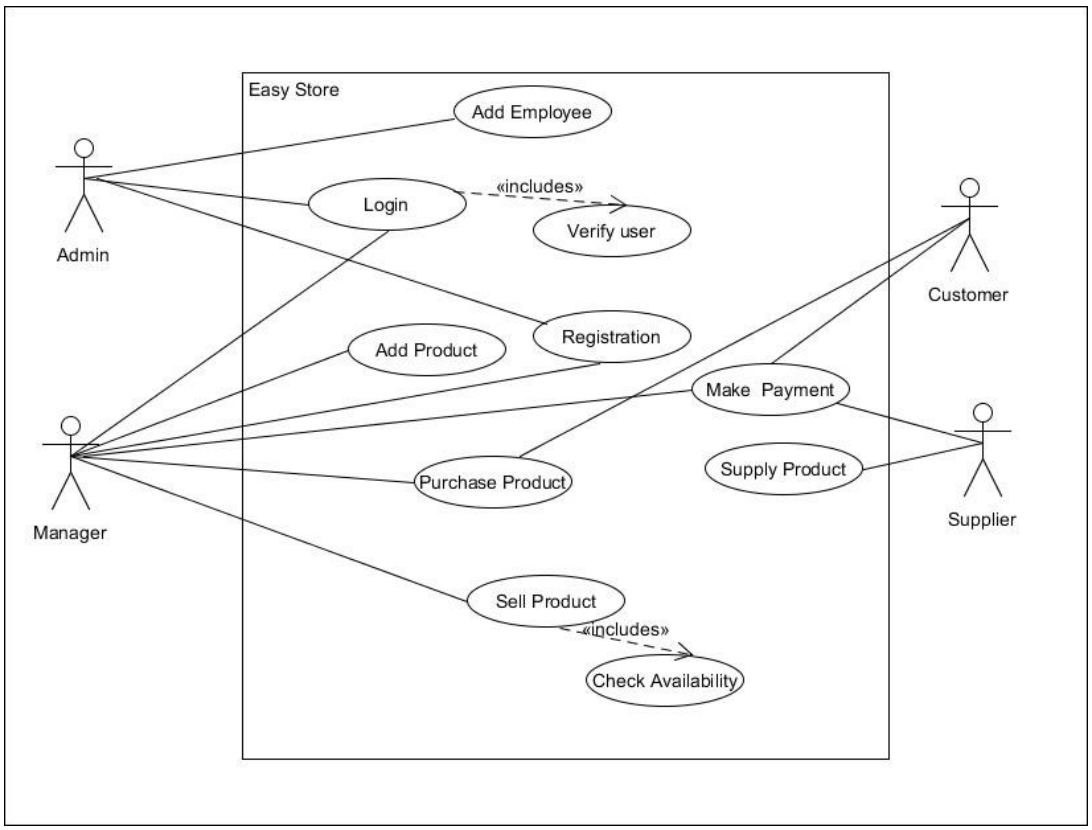
ERD diagram:


City
Loc_id
Street
Location
Has
A_id
A_email
A_password
A_fname
Admin
A_gender
A_lname
Loc_id
A_phn
E_email
E_phn
E_hiredate
E_gender
Job_id
E_password
Job_title
E_lname
Job_id
E_fname
Salary
Loc_id
Employee
E_id
Job
Has
Do
Make
Has
Add
Sales_id
P_id
Sales
Date
Quantity
Quantity
P_id
P_name
P_id
Supplier_id
Pur_id
Quantity
Product
E_id
Purchase
total_amount
C_id
E_id
Cost_price
Sell_price
Catagory_id
total_amount
Date
C_id
Has
Has
C_fname
Customer
Has
C_lname
Catagory_name
Catagory
C_phn
Catagory_id
Supplier_id
Supplier_name
Supplier
Supplier_phn
Company+name
Loc_id

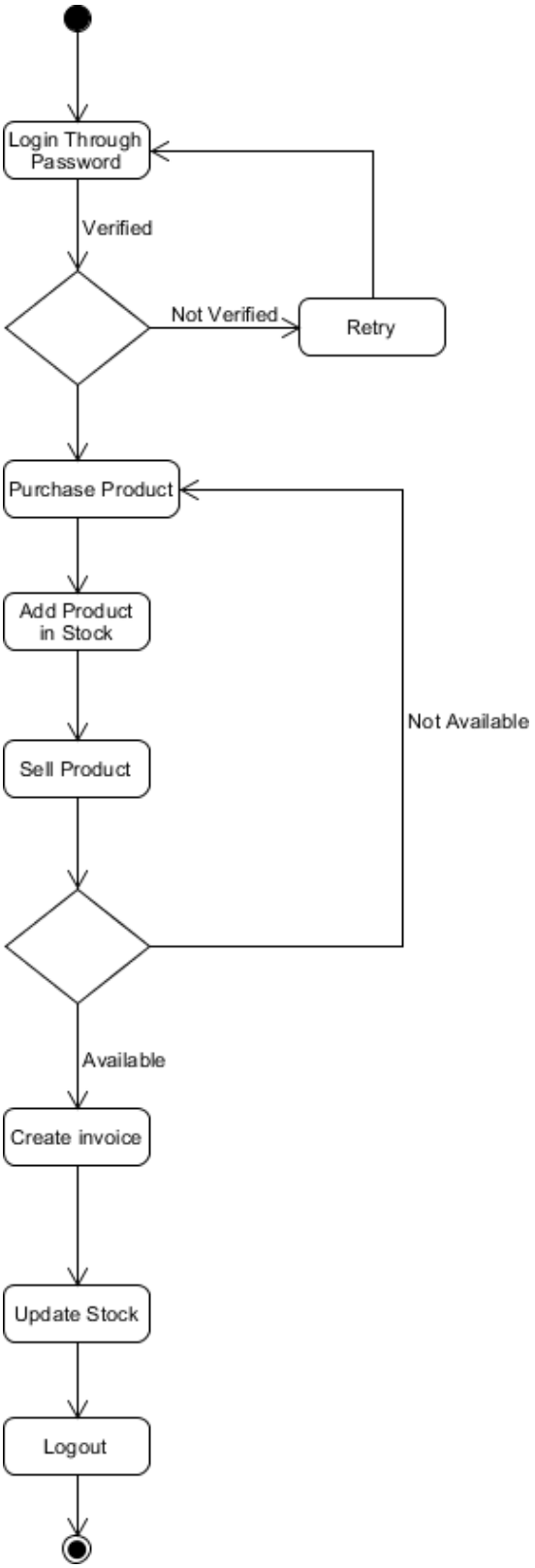
Class diagram:



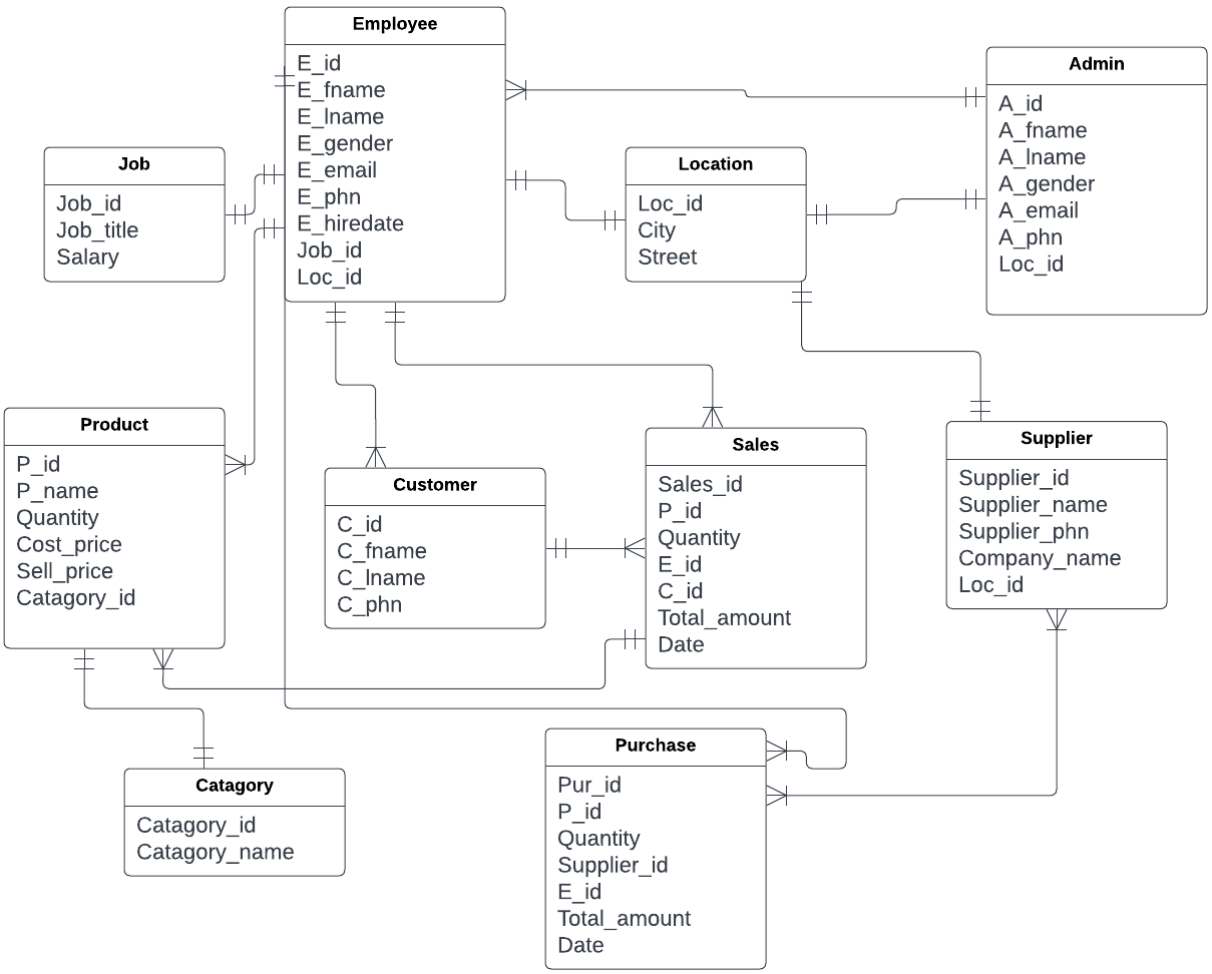
Use Case Diagram:



Activity Diagram:



Schema Diagram:



Creating Table:

1. Location

CREATE TABLE Location(

Loc_id number not null,

City varchar(20) not null,

Street varchar(20) not null,

PRIMARY KEY (Loc_id)

);

Column Name	Data Type	Nullable	Default	Primary Key
LOC_ID	NUMBER	No	-	1
CITY	VARCHAR2(20)	No	-	-
STREET	VARCHAR2(20)	No	-	-
				1 - 3

2. Job

CREATE TABLE Job(
Job_id number not null,
Job_title varchar(20) not null,
Salary varchar(20) not null,
PRIMARY KEY (Job_id)

);

Column Name	Data Type	Nullable	Default	Primary Key
JOB_ID	NUMBER	No	-	1
JOB_TITLE	VARCHAR2(20)	No	-	-
SALARY	VARCHAR2(20)	No	-	-
				1 - 3

3. Employee

CREATE TABLE Employee(
E_id number not null,
E_fname varchar(20) not null,
E_lname varchar(20) not null,
E_gender varchar(20) not null,
E_email varchar(20) not null unique,
E_password varchar(20) not null,
E_phn varchar(11) not null,
E_hiredate varchar(20) not null,
Job_id number not null,

Loc_id number not null,
  PRIMARY KEY (E_id),
FOREIGN KEY(Job_id) REFERENCES Job(Job_id),
FOREIGN KEY(Loc_id) REFERENCES Location(Loc_id)

);

Column Name	Data Type	Nullable	Default	Primary Key
E_ID	NUMBER	No	-	1
E_FNAME	VARCHAR2(20)	No	-	-
E_LNAME	VARCHAR2(20)	No	-	-
E_GENDER	VARCHAR2(20)	No	-	-
E_EMAIL	VARCHAR2(20)	No	-	-
E_PASSWORD	VARCHAR2(20)	No	-	-
E_PHN	VARCHAR2(11)	No	-	-
E_HIREDATE	DATE	No	-	-
JOB_ID	NUMBER	No	-	-
LOC_ID	NUMBER	No	-	-
				1 - 10

4. Admin

CREATE TABLE Admin(
  A_id number not null,
A_fname varchar(20) not null,
A_lname varchar(20) not null,
Age number not null,–
A_gender varchar(20) not null,
A_email varchar(20) not null unique,
A_password varchar(20) not null,
A_phn varchar(11) not null,

Loc_id number not null,
  PRIMARY KEY (A_id),
FOREIGN KEY(Loc_id) REFERENCES Location(Loc_id)

);

Column Name	Data Type	Nullable	Default	Primary Key
A_ID	NUMBER	No	-	1
A_FNAME	VARCHAR2(20)	No	-	-
A_LNAME	VARCHAR2(20)	No	-	-
A_GENDER	VARCHAR2(20)	No	-	-
A_EMAIL	VARCHAR2(100)	No	-	-
A_PASSWORD	VARCHAR2(20)	No	-	-
A_PHN	VARCHAR2(11)	No	-	-
LOC_ID	NUMBER	No	-	-
AGE	NUMBER	No	-	-
				1 - 9

5. **Customer:**

```
CREATE TABLE Customer(
C_id number not null,
C_fname varchar(20) not null,
C_lname varchar(20) not null,
C_phn varchar(11) not null,

  PRIMARY KEY (C_id)
);
```

Column Name	Data Type	Nullable	Default	Primary Key
C_ID	NUMBER	No	-	1
C_FNAME	VARCHAR2(20)	No	-	-
C_LNAME	VARCHAR2(20)	No	-	-
C_PHN	VARCHAR2(11)	No	-	-
				1 - 4

6. **Supplier:**

```
CREATE TABLE Supplier(
Supplier_id number not null,
Supplier_name varchar(20) not null,
Supplier_phn varchar(11) not null,
Company_name varchar(20) not null,
Loc_id number not null,

  PRIMARY KEY (Supplier_id),
FOREIGN KEY(Loc_id) REFERENCES Location(Loc_id)
);
```

Column Name	Data Type	Nullable	Default	Primary Key
SUPPLIER_ID	NUMBER	No	-	1
SUPPLIER_NAME	VARCHAR2(20)	No	-	-
SUPPLIER_PHN	VARCHAR2(11)	No	-	-
COMPANY_NAME	VARCHAR2(20)	No	-	-
LOC_ID	NUMBER	No	-	-
				1 - 5

7. **Category:**

```
CREATE TABLE Catagory(
Catagory_id number not null,
Catagory_name varchar(20) not null,

  PRIMARY KEY (Catagory_id)

);
```

Column Name	Data Type	Nullable	Default	Primary Key
CATAGORY_ID	NUMBER	No	-	1
CATAGORY_NAME	VARCHAR2(20)	No	-	-
				1 - 2

8. Product:

```
CREATE TABLE Product(
P_id number not null,
P_name varchar(20) not null,
Quantity number not null,
Cost_price number not null,
Sell_price number not null,
Catagory_id number not null,


  PRIMARY KEY (P_id),
FOREIGN KEY(Catagory_id) REFERENCES Catagory(Catagory_id)

);
```

Column Name	Data Type	Nullable	Default	Primary Key
P_ID	NUMBER	No	-	1
P_NAME	VARCHAR2(20)	No	-	-
QUANTITY	NUMBER	No	-	-
COST_PRICE	NUMBER	No	-	-
SELL_PRICE	NUMBER	No	-	-
CATAGORY_ID	NUMBER	No	-	-
				1 - 6

9. Purchase:

```
CREATE TABLE Purchase(
Pur_id number not null,
P_id number not null,
Quantity number not null,
Supplier_id number not null,
E_id number not null,
Total_amount number not null,


  PRIMARY KEY (Pur_id),
FOREIGN KEY(P_id) REFERENCES Product(P_id),
FOREIGN KEY(Supplier_id) REFERENCES Supplier(Supplier_id),
FOREIGN KEY(E_id) REFERENCES Employee(E_id)
);
```

Column Name	Data Type	Nullable	Default	Primary Key
PUR_ID	NUMBER	No	-	1
P_ID	NUMBER	No	-	-
QUANTITY	NUMBER	No	-	-
SUPPLIER_ID	NUMBER	No	-	-
E_ID	NUMBER	No	-	-
TOTAL_AMOUNT	NUMBER	No	-	-
				1 - 6

10. Sales:

```
CREATE TABLE Sales(
Sales_id number not null,
P_id number not null,
Quantity number not null,
E_id number not null,
C_id number not null,
Total_amount number not null,


FOREIGN KEY(P_id) REFERENCES Product(P_id),
FOREIGN KEY(C_id) REFERENCES Customer(C_id),
FOREIGN KEY(E_id) REFERENCES Employee(E_id)
);
```