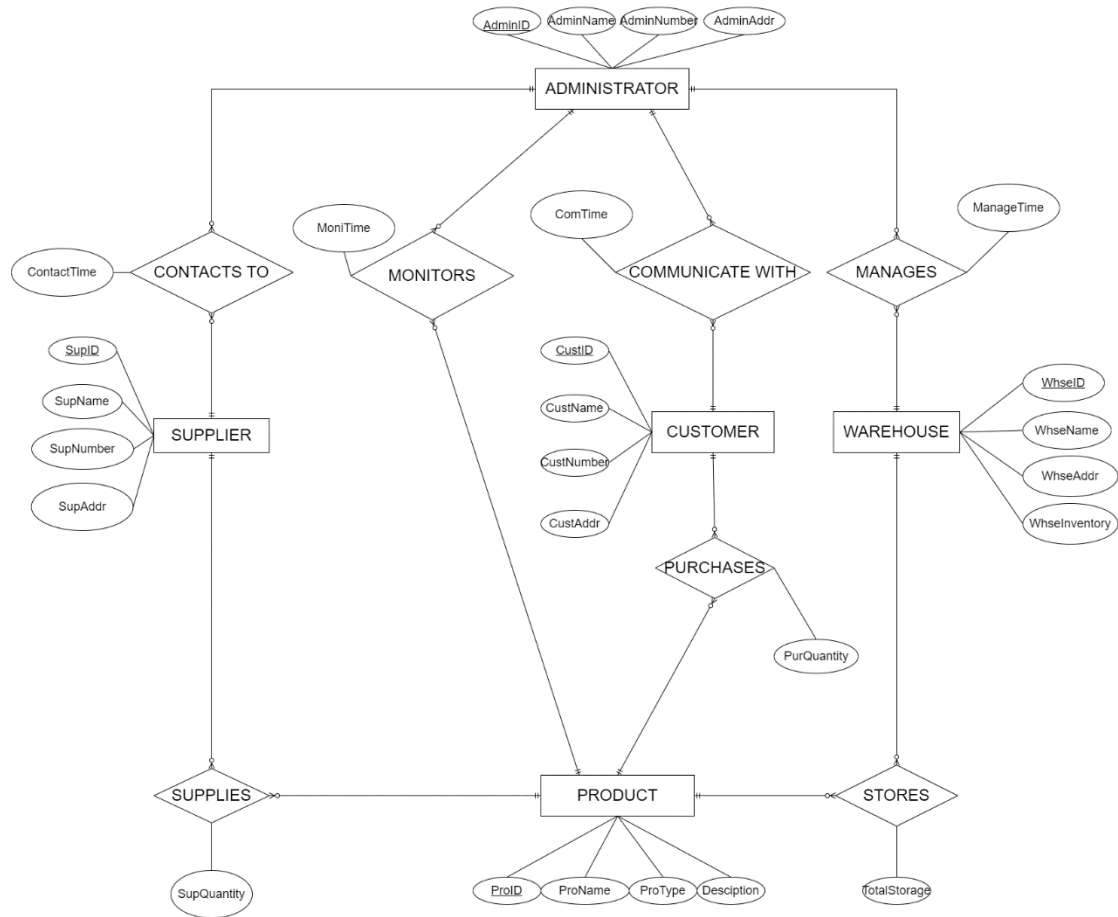


E-R Diagram :

Warehouse Management System



Objectives:

- 1.To provide a fast retrieval, convenient search, high reliability, large storage capacity and good confidentiality
- 2.Easily add, delete, modify, or delete data within the WMS.
- 3.Offer efficient, safe, and trustworthy information displaying and monitoring
- 4.Prevent redundant duplication or loss of paper-based documents

Key Database Design Decisions:

1. **ADMINISTRATOR** (AdminID, AdminName, AdminNumber, AdminAddr)
2. **SUPPLIER** (SupID, SupName, SupNumber, SupAddr)
3. **CUSTOMER** (CustID, CustName, CustNumber, CustAddr)
4. **WAREHOUSE** (WhseID, WhseName, WhseAddr, WhseInventory)
5. **PRODUCT** (ProID, ProName, ProType, Description)

6. **CONTACTS TO** (AdminID, SupID, ContactTime)
7. **MONITORS** (AdminID, ProID, Monitime)
8. **COMMUNICATES TO** (AdminID, CustID, ComTime)
9. **MANAGES** (AdminID, WhseID, ManageTime)
10. **PURCHASES** (CustID, ProID, PurQuantity)
11. **SUPPLIES** (SupID, ProID, SupQuantity)
12. **STORES** (WhseID, ProID, TotalStorage)

1. **ADMINISTRATOR:**

Contacts to suppliers, monitors the products, communicates with customers, and manages the warehouse.

Contains suppliers' information: ID, Name, Number, Address.

2. **SUPPLIER:**

Supplies products.

Contains suppliers' information: ID, Name, Number, Address.

3. **CUSTOMER:**

Purchases products.

Contains customers' information: ID, Name, Number, Address.

4. **WAREHOUSE:**

Stores products.

Contains warehouses' information: ID, Name, Address, Inventory.

5. **PRODUCT:**

Contains products' information: ID, Name, Type, Description.

6. **CONTACTS TO:**

An associative entity: keep the contact date as record.

7. **MONITORS:**

An associative entity: keep the monitor date as record.

8. **COMMUNICATES TO:**

An associative entity: keep the communicate date as record.

9. **MANAGES:**

An associative entity: keep the manage date as record.

10. **PURCHASES:**

An associative entity: keep the quantity of products that a customer buys.

11. **SUPPLIES:**

An associative entity: keep the quantity of products that a supplier supplies.

12. **STORES:**

An associative entity: keep the total storage of products that a warehouse has.