Rindhitya Arfiananda / L200150009

**Tugas 1 Database Management System**

1. **Entitas dan Atribut**
   1. Customers
      1. Customer Number: Integer (11) PK
      2. Customer Name: Varchar (50)
      3. Contact Last Name: Varchar (50)
      4. Contact First Name: Varchar (50)
      5. Phone: Varchar (50)
      6. Address Line 1: Varchar (50)
      7. Address Line 2: Varchar (50), NULL
      8. City: Varchar (50)
      9. State: Varchar (50), NULL
      10. Postal Code: Varchar (50), NULL
      11. Country: Varchar (50)
      12. Credit Limit: Decimal (10,2), NULL
      13. Sales Rep Employee Number: Integer (11) FK, NULL
   2. Employees
      1. Employee Number: Integer (11) PK
      2. Last Name: Varchar (50)
      3. First Name: Varchar (50)
      4. Extension: Varchar (10)
      5. Email: Varchar (100)
      6. Job Title: Varchar (50)
      7. Office Code: Varchar (10) FK
      8. Reports to: Integer (11) FK, NULL
   3. Offices
      1. Office Code: Varchar (10) PK
      2. City: Varchar (50)
      3. Phone: Varchar (50)
      4. Address Line 1: Varchar (50)
      5. Address Line 2: Varchar (50), NULL
      6. State: Varchar (50), NULL
      7. Country: Varchar (50)
      8. Postal Code: Varchar (15)
      9. Territory: Varchar (10)
   4. Orders
      1. Order Number: Integer (11) PK
      2. Order Date: Date
      3. Required Date: Date
      4. Shipped Date: Date, NULL
      5. Status: Varchar (15)
      6. Comments: Text, NULL
   5. Orders Detail
      1. Order Number: Integer (11) PK, FK
      2. Product Code: Integer (15) PK, FK
      3. Quantity Ordered: Integer (11)
      4. Price Each: Decimal (10, 2)
      5. Order Line Number: Small Integer (6)
   6. Payments
      1. Check Number: Varchar (50) PK
      2. Customer Number: Integer (11) PK, FK
      3. Payment Date: Date
      4. Amount: Decimal (10,2)
   7. Product
      1. Product Code: Varchar (15) PK
      2. Product Name: Varchar (170)
      3. Product Scale: Varchar (10)
      4. Product Vendor: Varchar (50)
      5. Product Description: Text
      6. Quantity in Stock: Small Integer (6)
      7. Buy Price: Decimal (10,2)
      8. MSRP: Decimal (10,2)
      9. Product Line: Varchar (50) FK
   8. Product Lines
      1. Product Line: Varchar (50) PK
      2. Text Description: Varchar (4000), NULL
      3. HTML Description: Medium Text, NULL
      4. Image: Medium BLOB, NULL
2. **Hubungan antar Entitas**
   1. Employees 🡪 Offices: n:1 (One to Many)

n

1

Employees

Offices

Bekerja

* 1. Customers 🡪 Employees: n:1 (One to Many)

n

1

Customers

Employees

Layan

* 1. Employees 🡪 Employees: n:1 (One to Many)

n

1

Employees

Employees

Pimpin

* 1. Products 🡪 Product Lines: n:1 (One to Many)

n

1

Products

Product Lines

Klasifikasi

* 1. Customer 🡪 Orders: 1:n (One to Many)

1

n

Customers

Orders

Pesan

* 1. Customers 🡪 Payments: 1:n (One to Many)

1

n

Customers

Payments

Bayar

* 1. Orders 🡪 Products: n:m (Many to Many)

Orders

Products

contains

n

m

Order Details

1. **ER Diagram**

