

TUGAS 1

SISTEM MANAJEMEN BASIS DATA

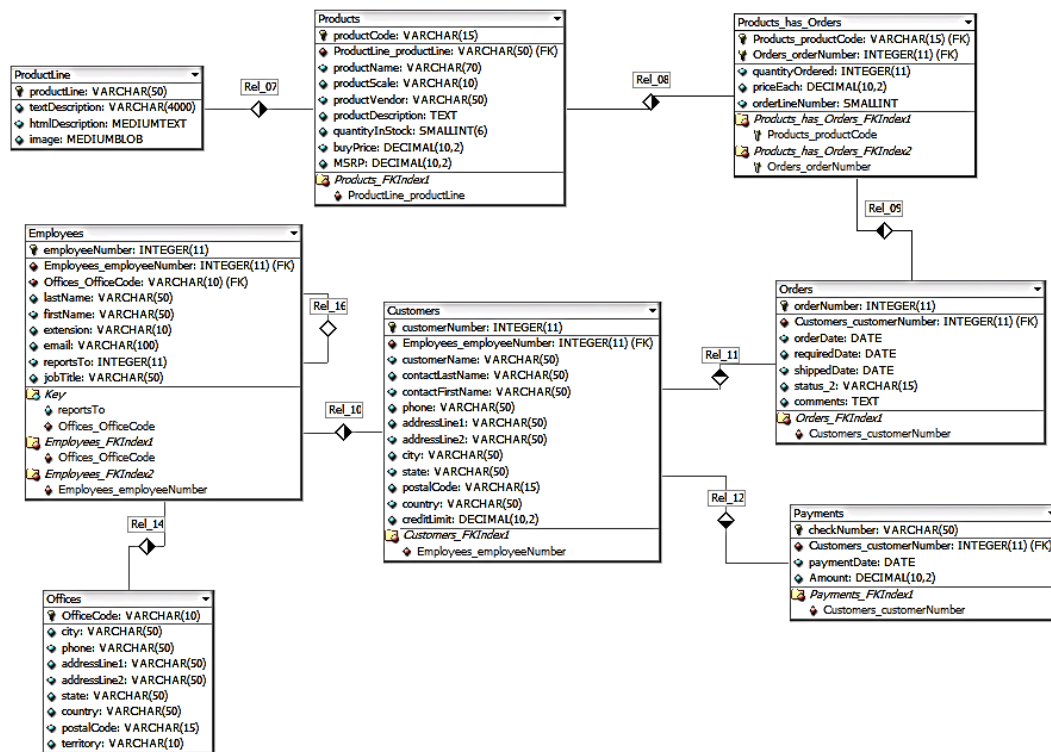
Rentangan database Retail



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Keterangan Gambar:

1. Menentukan Entities yang diperlukan dalam database Classicmodels:

- Customers
- Employees
- Products
- Productlines
- Payment
- Orderdetails
- Order
- Offices

2. Menentukan Atribut dari tiap entities:

- Customers
  - CustomerNumber (Integer(11) PK)
  - SalesRepEmployeeNumber (Integer (11) FK)
  - CustomerName (Varchar (50))
  - Contactlastname (Varchar (50))

- Contactfirstname (Varchar (50))
- Phone (Varchar (50))
- Addressline1 (Varchar (50))
- Addressline2 (Varchar (50))
- City (Varchar (50))
- State (Varchar (50))
- Postalcode (Varchar (50))
- Country (Varchar (50))
- Creditlimit (Decimal (10,2))

b. Employees

- EmployeeNumber (Integer (11) PK)
- OfficeCode (Varchar (10) FK)
- ReportsTo (Integer (11) FK)
- LastName (Varchar (50))
- FirstName (Varchar (50))
- Extension (Varchar (10))
- Email (Varchar (100))
- Jobtitle (Varchar (50))

c. Products

- ProductCode (Varchar (15) PK)
- Productline (Varchar (50) FK)
- ProductName (Varchar (170))
- ProductScale (Varchar (10))
- ProductVendor (Varchar (50))
- ProductDescription (TEXT)
- QuantityInStock (SmallInt(6))
- BuyPrice (Decimal (10,2))
- MSRP (Decimal (10,2))

d. Productlines

- Productline (Varchar (50) PK)
- textDescription (Varchar (4000))
- htmlDescription (MEDIUM TEXT)
- image (MediumBlob)

e. Payment

- CustomerNumber (Integer (11) FK)

- CheckNumber (Varchar (50) PK)
- PaymentDate (DATE)
- amount (Decimal (10,2))

f. Orderdetails

- Productcode (Varchar (15) FK)
- OrderNumber (Integer (11) FK)
- QuantityOrdered (Integer (11))
- PriceEach (Decimal (10,2))
- OrderlineNumber (SmallInt (6))

g. Order

- OrderNumber (Integer (11) PK)
- CustomerNumber (Integer (11) FK)
- orderDate (DATE)
- requiredDate (DATE)
- shippedDate (DATE)
- status\_2 (Varchar (15))
- comments (TEXT)

h. Offices

- OfficeCode (Varchar (10))
- City (Varchar (50))
- Phone (Varchar (50))
- AddressLine1 (Varchar (50))
- Address Line2 (Varchar (50))
- Country (Varchar (50))
- State (Varchar (50))
- PostalCode (Varchar (15))
- Territory (Varchar (10))

3. Menentukan hubungan

a. Customer membayar Payments

Hubungan : One to Many

- Atribut penghubung : CustomerNumber (Integer (11) FK) berada di table Payments.

b. Customer membeli / memesan Orders

Hubungan: One to Many

- Atribut penghubung : CustomerNumber (Integer (11) FK) berada di table Orders.
- c. Employees melayani Customers  
Hubungan: One to Many
  - Atribut penghubung : SalesRepEmployeeNumber (Integer (11) FK) yang berada di table Customers.
- d. Employees mengamati / memimpin Employees  
Hubungan: One to Many
  - Atribut penghubung : ReportsTo (Integer (11) FK) yang berada di table Employees itu sendiri.
- e. Employees menempati Offices  
Hubungan: Many to One
  - Atribut penghubung : OfficeCode (Varchar (10) FK) yang berada di table Offices.
- f. Orders memiliki Order Details  
Hubungan: Many to many
  - Atribut penghubung: Productcode (Varchar (15) FK), OrderNumber (Integer (11) FK) yang berada di table Order Details.
- g. Product memiliki Order Details  
Hubungan: Many to many
  - Atribut penghubung: Productcode (Varchar (15) FK), OrderNumber (Integer (11) FK) yang berada di table Order Details.
- h. Productlines mengklasifikasi Product  
Hubungan: One to many
  - Atribut penghubung : Productline (Varchar (50) FK) yang berada di table Product