**SISTEM MANAJEMEN BASIS DATA**

**IDENTIFIKASI STRUKTUR DAN RELASI DARI *DATABASE CLASSICMODELS***

**TUGAS 1**

Disusun Guna Memenuhi Tugas

Sistem Manajemen Basis Data Semester V

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**PROGRAM STUDI INFORMATIKA**

**FAKULTAS KOMUNIKASI DAN INFORMATIKA**

**UNIVERSITAS MUHAMMADIYAH SURAKARTA**

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1. Menentukan Entities yang diperlukan dalam database Classicmodels:
2. Customers
3. Employees
4. Products
5. Productlines
6. Payment
7. Orderdetails
8. Order
9. Offices
10. Menentukan Atribut dari tiap entities:
11. 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))

1. 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))

1. 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))

1. Productlines

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

1. Payment

* CustomerNumber (Integer (11) FK)
* CheckNumber (Varchar (50) PK)
* PaymentDate (DATE)
* amount (Decimal (10,2))

1. Orderdetails

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

1. Order

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

1. 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))

1. Menentukan hubungan
2. Customer membayar Payments

Hubungan : One to Many

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

1. Customer membeli / memesan Orders

Hubungan: One to Many

* Atribut penghubung : CustomerNumber (Integer (11) FK) berada di table Orders.

1. Employees melayani Customers

Hubungan: One to Many

* Atribut penghubung : SalesRepEmployeeNumber (Integer (11) FK) yang berada di table Customers.

1. Employees mengamati / memimpin Employees

Hubungan: One to Many

* Atribut penghubung : ReportsTo (Integer (11) FK) yang berada di table Employees itu sendiri.

1. Employees menempati Offices

Hubungan: One to Many

* Atribut penghubung : OfficeCode (Varchar (10) FK) yang berada di table Offices.

1. Orders memiliki Order Details

Hubungan: Many to many

* Atribut penghubung: Productcode (Varchar (15) FK), OrderNumber (Integer (11) FK) yang berada di table Order Details.

1. Product memiliki Order Details

Hubungan: Many to many

* Atribut penghubung: Productcode (Varchar (15) FK), OrderNumber (Integer (11) FK) yang berada di table Order Details.

1. Productlines mengklasifikasi Product

Hubungan: One to many

* Atribut penghubung : Productline (Varchar (50) FK) yang berada di table Product

1. ER Diagram:

