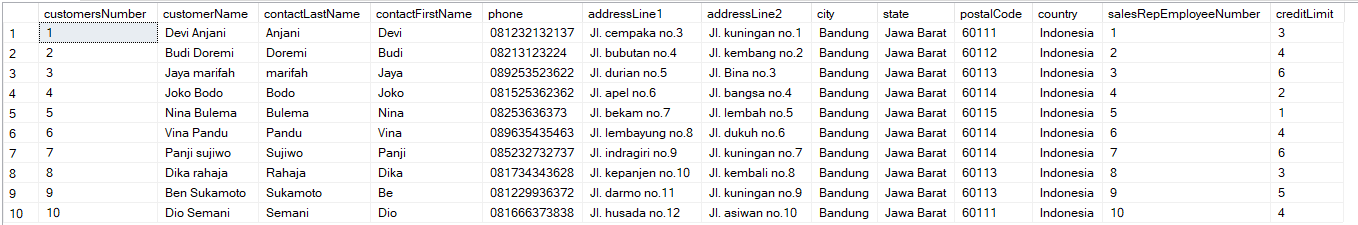
Nama Peserta : David Chrissando Frizky

Kode Peserta : FSDO002ONL001

Tugas : Assigment 2



1. Customers => stores data customer

CREATE DATABASE db\_bank;

USE db\_bank;

CREATE TABLE customers(

    customersNumber int PRIMARY KEY NOT NULL,

    customerName varchar(50) NOT NULL,

    contactLastName varchar(50) NULL,

    contactFirstName varchar(50) NULL,

    phone varchar(13) NULL,

    addressLine1 varchar(50) NULL,

    addressLine2 varchar(50) NULL,

    city varchar(50) NULL,

    state varchar(50) NULL,

    postalCode int NULL,

    country varchar(50) NULL,

    salesRepEmployeeNumber int NULL,

    creditLimit int NULL

);

INSERT customers VALUES

(1,'Devi Anjani','Anjani','Devi','081232132137','Jl. cempaka no.3','Jl. kuningan no.1','Bandung','Jawa Barat', 60111,'Indonesia', 1, 3),

(2,'Budi Doremi','Doremi','Budi','08213123224','Jl. bubutan no.4','Jl. kembang no.2','Bandung','Jawa Barat', 60112,'Indonesia', 2, 4),

(3,'Jaya marifah','marifah','Jaya','089253523622','Jl. durian no.5','Jl. Bina no.3','Bandung','Jawa Barat', 60113,'Indonesia', 3, 6),

(4,'Joko Bodo','Bodo','Joko','081525362362','Jl. apel no.6','Jl. bangsa no.4','Bandung','Jawa Barat', 60114,'Indonesia', 4, 2),

(5,'Nina Bulema','Bulema','Nina','08253636373','Jl. bekam no.7','Jl. lembah no.5','Bandung','Jawa Barat', 60115,'Indonesia', 5, 1),

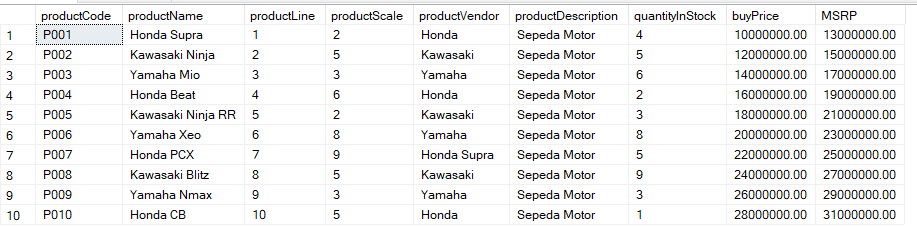
(6,'Vina Pandu','Pandu','Vina','089635435463','Jl. lembayung no.8','Jl. dukuh no.6','Bandung','Jawa Barat', 60114,'Indonesia', 6, 4),

(7,'Panji sujiwo','Sujiwo','Panji','085232732737','Jl. indragiri no.9','Jl. kuningan no.7','Bandung','Jawa Barat', 60114,'Indonesia', 7, 6),

(8,'Dika rahaja','Rahaja','Dika','081734343628','Jl. kepanjen no.10','Jl. kembali no.8','Bandung','Jawa Barat', 60113,'Indonesia', 8, 3),

(9,'Ben Sukamoto','Sukamoto','Be','081229936372','Jl. darmo no.11','Jl. kuningan no.9','Bandung','Jawa Barat', 60113,'Indonesia', 9, 5),

(10,'Dio Semani','Semani','Dio','081666373838','Jl. husada no.12','Jl. asiwan no.10','Bandung','Jawa Barat', 60111,'Indonesia', 10, 4);



1. Products => stores daftar/list model product ( dalam hal ini bisa mobil/motor dll )

CREATE TABLE products(

productCode nchar(10) PRIMARY KEY NOT NULL,

productName varchar(50) NULL,

productLine int NOT NULL,

productScale int NULL,

productVendor varchar(50) NULL,

productDescription varchar(200) NULL,

quantityInStock int NULL,

buyPrice money NULL,

MSRP money NULL

);

INSERT products VALUES

('P001','Honda Supra', 1, 2,'Honda','Sepeda Motor', 4, 10000000.0000, 13000000.0000),

('P002','Kawasaki Ninja', 2, 5,'Kawasaki','Sepeda Motor', 5, 12000000.0000, 15000000.0000),

('P003','Yamaha Mio', 3, 3,'Yamaha','Sepeda Motor', 6, 14000000.0000, 17000000.0000),

('P004','Honda Beat', 4, 6,'Honda ','Sepeda Motor', 2, 16000000.0000, 19000000.0000),

('P005','Kawasaki Ninja RR', 5, 2,'Kawasaki','Sepeda Motor', 3, 18000000.0000, 21000000.0000),

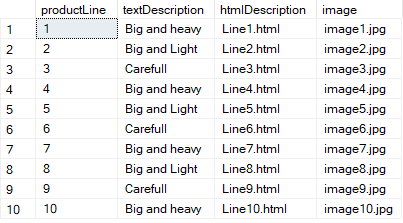
('P006','Yamaha Xeo', 6, 8,'Yamaha','Sepeda Motor', 8, 20000000.0000, 23000000.0000),

('P007','Honda PCX', 7, 9,'Honda Supra','Sepeda Motor', 5, 22000000.0000, 25000000.0000),

('P008','Kawasaki Blitz', 8, 5,'Kawasaki','Sepeda Motor', 9, 24000000.0000, 27000000.0000),

('P009','Yamaha Nmax', 9, 3,'Yamaha','Sepeda Motor', 3, 26000000.0000, 29000000.0000),

('P010','Honda CB', 10, 5,'Honda ','Sepeda Motor', 1, 28000000.0000, 31000000.0000);



1. Productlines => stores daftar/list kategori product

CREATE TABLE productlines(

productLine int PRIMARY KEY NOT NULL,

textDescription varchar(50) NULL,

htmlDescription varchar(50) NULL,

[image] varchar(200) NULL

);

INSERT productlines VALUES

(1, 'Big and heavy', 'Line1.html','image1.jpg'),

(2, 'Big and Light', 'Line2.html','image2.jpg'),

(3, 'Carefull', 'Line3.html', 'image3.jpg'),

(4, 'Big and heavy','Line4.html','image4.jpg'),

(5, 'Big and Light','Line5.html','image5.jpg'),

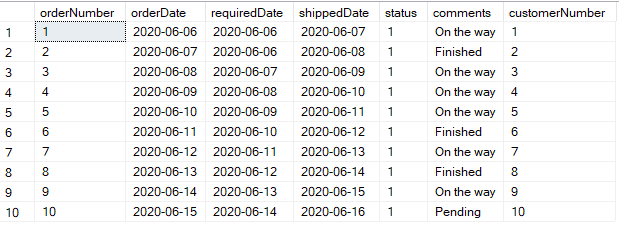
(6, 'Carefull','Line6.html','image6.jpg'),

(7, 'Big and heavy','Line7.html','image7.jpg'),

(8, 'Big and Light','Line8.html','image8.jpg'),

(9, 'Carefull','Line9.html','image9.jpg'),

(10,'Big and heavy','Line10.html','image10.jpg');



1. Orders => store Order Sales oleh customer

CREATE TABLE orders(

orderNumber int PRIMARY KEY NOT NULL,

orderDate date NULL,

requiredDate date NULL,

shippedDate date NULL,

[status] char(1) NULL,

comments varchar(50) NULL,

customerNumber int NULL

);

INSERT orders VALUES

(1, '2020-06-06' , '2020-06-06' , '2020-06-07' ,'1','On the way', 1),

(2, '2020-06-07' , '2020-06-06' , '2020-06-08' ,'1','Finished', 2),

(3, '2020-06-08' , '2020-06-07' , '2020-06-09' ,'1','On the way', 3),

(4, '2020-06-09' , '2020-06-08' , '2020-06-10' ,'1','On the way', 4),

(5, '2020-06-10' , '2020-06-09' , '2020-06-11' ,'1','On the way', 5),

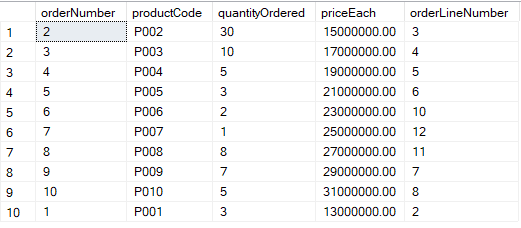
(6, '2020-06-11' , '2020-06-10' , '2020-06-12' ,'1','Finished', 6),

(7, '2020-06-12' , '2020-06-11' , '2020-06-13' ,'1','On the way', 7),

(8, '2020-06-13' , '2020-06-12' , '2020-06-14' ,'1','Finished', 8),

(9, '2020-06-14' , '2020-06-13' , '2020-06-15' ,'1','On the way', 9),

(10, '2020-06-15' , '2020-06-14' , '2020-06-16' ,'1','Pending', 10);



1. OrderDetails => store Item Order sales dalam setiap order sales

CREATE TABLE orderdetails(

orderNumber int NULL,

productCode nchar(10) NULL,

quantityOrdered int NULL,

priceEach money NULL,

orderLineNumber int NULL

) ;

INSERT orderdetails VALUES

(2,'P002', 30, 15000000.0000, 3),

(3,'P003', 10, 17000000.0000, 4),

(4,'P004', 5, 19000000.0000, 5),

(5,'P005', 3, 21000000.0000, 6),

(6,'P006', 2, 23000000.0000, 10),

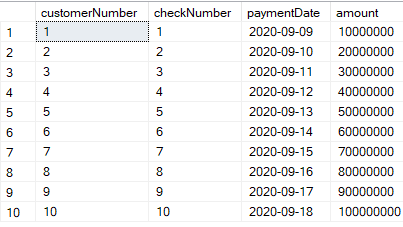
(7,'P007', 1, 25000000.0000, 12),

(8,'P008', 8, 27000000.0000, 11),

(9,'P009', 7, 29000000.0000, 7),

(10,'P010', 5, 31000000.0000, 8),

(1,'P001', 3, 13000000.0000, 2);



1. Payments => store Pembayaran oleh customer sesuai dengan akun pembayaran

CREATE TABLE payments(

customerNumber int NOT NULL,

checkNumber int PRIMARY KEY NOT NULL,

paymentDate date NULL,

amount int NULL

);

INSERT payments VALUES

(1, 1, '2020-09-09' , 10000000),

(2, 2, '2020-09-10' , 20000000),

(3, 3, '2020-09-11' , 30000000),

(4, 4, '2020-09-12' , 40000000),

(5, 5, '2020-09-13' , 50000000),

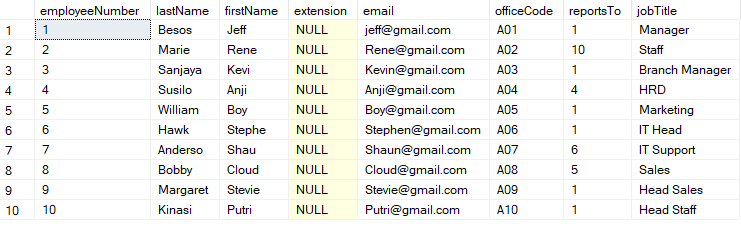
(6, 6, '2020-09-14' , 60000000),

(7, 7, '2020-09-15' , 70000000),

(8, 8, '2020-09-16' , 80000000),

(9, 9, '2020-09-17' , 90000000),

(10, 10, '2020-09-18' , 100000000);



1. Employee => store informasi karyawan dalam sebuah organisasi struktur

CREATE TABLE employees(

employeeNumber int PRIMARY KEY NOT NULL,

lastName varchar(50) NULL,

firstName varchar(50) NULL,

extension varchar(50) NULL,

email varchar(50) NULL,

officeCode nchar(10) NULL,

reportsTo int NULL,

jobTitle varchar(50) NULL

);

INSERT employees VALUES

(1,'Besos','Jeff', NULL,'jeff@gmail.com','A01', 1,'Manager'),

(2,'Marie','Rene', NULL,'Rene@gmail.com','A02', 10,'Staff'),

(3,'Sanjaya','Kevi', NULL,'Kevin@gmail.com','A03', 1,'Branch Manager'),

(4,'Susilo','Anji', NULL,'Anji@gmail.com','A04', 4,'HRD'),

(5,'William','Boy', NULL,'Boy@gmail.com','A05', 1,'Marketing'),

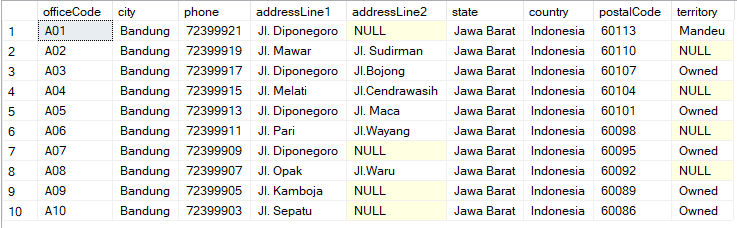
(6,'Hawk','Stephe', NULL,'Stephen@gmail.com','A06', 1,'IT Head'),

(7,'Anderso','Shau', NULL,'Shaun@gmail.com','A07', 6,'IT Support'),

(8,'Bobby','Cloud', NULL,'Cloud@gmail.com','A08', 5,'Sales'),

(9,'Margaret','Stevie', NULL,'Stevie@gmail.com','A09', 1,'Head Sales'),

(10,'Kinasi','Putri', NULL,'Putri@gmail.com','A10', 1,'Head Staff');



1. Offices => store data sales office

CREATE TABLE offices(

officeCode nchar(10) PRIMARY KEY NOT NULL,

city varchar(50) NULL,

phone varchar(13) NULL,

addressLine1 varchar(50) NULL,

addressLine2 varchar(50) NULL,

state varchar(50) NULL,

country varchar(50) NULL,

postalCode int NULL,

territory varchar(50) NULL

);

INSERT offices VALUES

('A01','Bandung','72399921','Jl. Diponegoro', NULL,'Jawa Barat','Indonesia', 60113,'Mandeu'),

('A02','Bandung','72399919','Jl. Mawar','Jl. Sudirman','Jawa Barat','Indonesia', 60110, NULL),

('A03','Bandung','72399917','Jl. Diponegoro','Jl.Bojong','Jawa Barat','Indonesia', 60107,'Owned'),

('A04','Bandung','72399915','Jl. Melati','Jl.Cendrawasih','Jawa Barat','Indonesia', 60104, NULL),

('A05','Bandung','72399913','Jl. Diponegoro','Jl. Maca','Jawa Barat','Indonesia', 60101,'Owned'),

('A06','Bandung','72399911','Jl. Pari','Jl.Wayang','Jawa Barat','Indonesia', 60098, NULL),

('A07','Bandung','72399909','Jl. Diponegoro', NULL,'Jawa Barat','Indonesia', 60095,'Owned'),

('A08','Bandung','72399907','Jl. Opak','Jl.Waru','Jawa Barat','Indonesia', 60092, NULL),

('A09','Bandung','72399905','Jl. Kamboja', NULL,'Jawa Barat','Indonesia', 60089,'Owned'),

('A10','Bandung','72399903','Jl. Sepatu', NULL,'Jawa Barat','Indonesia', 60086,'Owned');

--Tambahan untuk add Relationship

1. Relationship -> Foreign Key

ALTER TABLE customers ADD CONSTRAINT FK\_customers\_employees FOREIGN KEY(salesRepEmployeeNumber) REFERENCES employees (employeeNumber);

ALTER TABLE employees ADD CONSTRAINT FK\_employees\_employees FOREIGN KEY (reportsTo)

REFERENCES employees (employeeNumber);

ALTER TABLE employees ADD CONSTRAINT FK\_employees\_offices FOREIGN KEY(officeCode)

REFERENCES offices (officeCode);

ALTER TABLE orderdetails ADD CONSTRAINT FK\_orderdetails\_orders FOREIGN KEY(orderNumber)

REFERENCES orders (orderNumber);

ALTER TABLE orderdetails ADD CONSTRAINT FK\_orderdetails\_products FOREIGN KEY(productCode)

REFERENCES products (productCode);

ALTER TABLE orders ADD CONSTRAINT FK\_orders\_customers FOREIGN KEY(customerNumber)

REFERENCES customers (customersNumber);

ALTER TABLE payments ADD CONSTRAINT FK\_payments\_customers FOREIGN KEY(customerNumber)

REFERENCES customers (customersNumber);

ALTER TABLE products ADD CONSTRAINT FK\_products\_productlines FOREIGN KEY(productLine)

REFERENCES productlines (productLine);