**Nama : Dini Tri Widianingsih**

**No. Peserta : FSDO003ONL007**

**ASSIGNMENT 2**

Buat sebuah Database Bank dan tentunya dokumentasi kan setiap query yang anda buat didalamnya dengan masukkan setiap record pada setiap table.

Skema Database MySQL :

((Membuat database db\_bank))

CREATE database db\_bank;

USE db\_bank;

1. Customers => stores data customer

Jawab :

CREATE TABLE `customer` (

`customerNumber` int(20) NOT NULL,

`customerName` varchar(200) DEFAULT NULL,

`contactLastName` varchar(100) DEFAULT NULL,

`contactFirstName` varchar(100) DEFAULT NULL,

`phone` int(20) DEFAULT NULL,

`addressLine1` varchar(50) DEFAULT NULL,

`addressLine2` varchar(50) DEFAULT NULL,

`city` varchar(50) DEFAULT NULL,

`state` varchar(50) DEFAULT NULL,

`postalCode` int(20) DEFAULT NULL,

`country` varchar(50) DEFAULT NULL,

`employeeNumber` int(30) DEFAULT NULL,

`creditLimit` int(20) DEFAULT NULL

);

ALTER TABLE `customer`

ADD PRIMARY KEY (`customerNumber`),

ADD KEY `employeeNumber` (`employeeNumber`);

ALTER TABLE `customer`

ADD CONSTRAINT `customer` FOREIGN KEY (`employeeNumber`) REFERENCES `employees` (`employeeNumber`);

INSERT INTO `customer` VALUES

(1, 'dafa', 'ardiansyah', 'dafa', 8567136, 'raya bogor', 'kebon pala', 'jakarta', 'timur', 45321, 'indonesia', 331, 50000),

(2, 'kavi', 'azriel', 'kavi', 8237283, 'tadho', 'kemanggisan', 'jakarta', 'selatan', 45846, ' indonesia', 332, 60000);

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

Jawab :

CREATE TABLE `products` (

`productCode` int(30) NOT NULL,

`productName` varchar(80) DEFAULT NULL,

`productLine` int(20) DEFAULT NULL,

`productScale` varchar(100) DEFAULT NULL,

`productVendor` varchar(100) DEFAULT NULL,

`productDescription` varchar(150) DEFAULT NULL,

`quantityInStock` int(50) DEFAULT NULL,

`buyPrice` int(30) DEFAULT NULL,

`MSRP` int(30) DEFAULT NULL

);

ALTER TABLE `products`

ADD PRIMARY KEY (`productCode`),

ADD KEY `productLine` (`productLine`);

COMMIT;

ALTER TABLE `products`

ADD CONSTRAINT `products` FOREIGN KEY (`productLine`) REFERENCES `productline` (`productLine`);

COMMIT;

INSERT INTO `products` VALUES

(401, 'jazz', 122, '2', 'honda', 'aman', 230, 170000, 28000),

(402, 'avanza', 123, '5', 'suzuki', 'oke', 250, 120000, 20000),

(403, 'avanza', 124, '4', 'suzuki', 'bagus', 220, 420000, 34000);

1. Productlines => stores daftar/list kategori product

Jawab :

CREATE TABLE `productline` (

`productLine` int(20) NOT NULL,

`textDescription` varchar(150) DEFAULT NULL,

`htmlDescription` varchar(200) DEFAULT NULL,

`image` varchar(50) DEFAULT NULL

);

ALTER TABLE `productline`

ADD PRIMARY KEY (`productLine`);

INSERT INTO `productline` VALUES

(213, 'honda', 'honda.html', 'honda.jpg'),

(214, 'yamaha', 'yamaha.html', 'yamaha.jpg'),

(215, 'suzuki', 'suzuki.html', 'suzuki.jpg');

1. Orders => store Order Sales oleh customer

Jawab :

CREATE TABLE `orders` (

`OrderNumber` int(11) NOT NULL,

`orderDate` date DEFAULT NULL,

`shippedDate` date DEFAULT NULL,

`status` varchar(50) DEFAULT NULL,

`comments` varchar(100) DEFAULT NULL,

`customerNumber` int(11) DEFAULT NULL

);

ALTER TABLE `orders`

ADD PRIMARY KEY (`OrderNumber`),

ADD KEY `customerNumber` (`customerNumber`);

ALTER TABLE `orders`

ADD CONSTRAINT `orders` FOREIGN KEY (`customerNumber`) REFERENCES `customer` (`customerNumber`);

INSERT INTO `orders` VALUES

(721, '2022-10-26', '2022-03-21', 'oke', 'baik', 1234),

(722, '2022-12-06', '2022-06-15', 'bagus', 'barang aman', 1456);

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

Jawab :

CREATE TABLE `orderdetail` (

`OrderNumber` int(11) DEFAULT NULL,

`productCode` int(11) DEFAULT NULL,

`quantityOrdered` int(11) DEFAULT NULL,

`priceEach` int(20) DEFAULT NULL,

`orderLineNumber` int(11) DEFAULT NULL

);

ALTER TABLE `orderdetail`

ADD KEY `OrderNumber` (`OrderNumber`);

ALTER TABLE `orderdetail`

ADD CONSTRAINT `orderdetail` FOREIGN KEY (`OrderNumber`) REFERENCES `orders` (`OrderNumber`);

INSERT INTO `orderdetail` VALUES

(342, 111, 10, 450000, 4),

(346, 112, 8, 460000, 6);

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

Jawab :

CREATE TABLE `payment` (

`customerNumber` int(50) DEFAULT NULL,

`checkNumber` int(50) NOT NULL,

`paymentDate` date DEFAULT NULL,

`amount` int(30) DEFAULT NULL

);

ALTER TABLE `payment`

ADD PRIMARY KEY (`checkNumber`),

ADD KEY `customerNumber` (`customerNumber`);

ALTER TABLE `payment`

ADD CONSTRAINT `payment` FOREIGN KEY (`customerNumber`) REFERENCES `customer` (`customerNumber`);

INSERT INTO `payment` VALUES

(1213, 832, '2022-07-12', 2300000),

(1223, 838, '2022-02-15', 2340000);

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

Jawab :

CREATE TABLE `employees` (

`employeeNumber` int(50) NOT NULL,

`lastName` varchar(50) DEFAULT NULL,

`firstName` varchar(50) DEFAULT NULL,

`email` varchar(50) DEFAULT NULL,

`officeCode` int(20) DEFAULT NULL,

`reportsTo` varchar(50) DEFAULT NULL,

`jobTitle` varchar(50) DEFAULT NULL

);

ALTER TABLE `employees`

ADD PRIMARY KEY (`employeeNumber`),

ADD KEY `officeCode` (`officeCode`);

ALTER TABLE `employees`

ADD CONSTRAINT `employees` FOREIGN KEY (`officeCode`) REFERENCES `offices` (`officeCode`);

INSERT INTO `employees` VALUES

(236, 'dini', 'widia', 'dini@gmail.com', 238, 'CEO', 'editor'),

(239, 'azam', 'subianto', 'azam@gmail.com', 243, 'atasan', 'editor');

1. Offices => store data sales office

Jawab :

CREATE TABLE `offices` (

`officeCode` int(50) NOT NULL,

`cityOffice` varchar(50) DEFAULT NULL,

`phoneOffice` int(20) DEFAULT NULL,

`addressOffice1` varchar(100) DEFAULT NULL,

`addressOffice2` varchar(100) DEFAULT NULL,

`stateOffice` varchar(30) DEFAULT NULL,

`postal\_code` int(20) DEFAULT NULL,

`territory` varchar(50) DEFAULT NULL

);

ALTER TABLE `offices`

ADD PRIMARY KEY (`officeCode`);

INSERT INTO `offices` VALUES

(675, 'timur', 8347764, 'tadho', 'ciracas', 'jakarta', 36456, '200 m'),

(678, 'barat', 8935482, 'tangerang', 'kebon nanas', 'jakarta', 34522, '120 m');