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| **DOKUMENTASI EKSTERNAL**  External Documentation |  |
| **PROYEK KELOMPOK**  ***Project*** |
| **MATAKULIAH ISYS6169 – Database System**  ***Subject*** |
| SEMESTER GANJIL 2019/2020 ***Odd Semester Year 2019/2020*** |

## Judul Proyek

*Project Title*

RA Laundry

## Dokumentasi

*Report / Documentation*

**CREATE.sql**

CREATE DATABASE RALaundry

USE RALaundry

CREATE TABLE MsStaff(

StaffID VARCHAR(5) PRIMARY KEY NOT NULL CHECK(StaffID LIKE'ST[0-9][0-9][0-9]'),

StaffName VARCHAR(50),

StaffGender VARCHAR(10) CHECK(StaffGender IN('Male','Female')),

StaffAddress VARCHAR(100),

StaffSalary NUMERIC(9,2) CHECK(StaffSalary BETWEEN 1500000.00 AND 3000000.00)

)

CREATE TABLE MsCustomer(

CustomerID VARCHAR(5) PRIMARY KEY NOT NULL CHECK(CustomerID LIKE'CU[0-9][0-9][0-9]'),

CustomerName VARCHAR(50),

CustomerGender VARCHAR(10) CHECK(CustomerGender IN ('Male','Female')),

CustomerAddress VARCHAR(100),

CustomerDOB DATE

)

CREATE TABLE MsMaterial(

MaterialID VARCHAR(5) PRIMARY KEY NOT NULL CHECK(MaterialID LIKE'MA[0-9][0-9][0-9]'),

MaterialName VARCHAR(50),

MaterialType VARCHAR(20)CHECK(MaterialType IN('Equipment','Supplies')),

MaterialPrice NUMERIC(10,2)

)

CREATE TABLE MsVendor(

VendorID VARCHAR(5) PRIMARY KEY NOT NULL CHECK(VendorID LIKE'VE[0-9][0-9][0-9]'),

VendorName VARCHAR(50),

VendorAddress VARCHAR(100) CHECK(LEN(VendorAddress)>10),

VendorPhoneNumber VARCHAR(15)

)

CREATE TABLE MsClothes(

ClothesID VARCHAR(5) PRIMARY KEY NOT NULL CHECK(ClothesID LIKE'CL[0-9][0-9][0-9]'),

ClothesName VARCHAR(50),

ClothesType VARCHAR(20)CHECK(ClothesType IN('Cotton', 'Viscose', 'Polyester', 'Linen', 'Wool'))

)

CREATE TABLE TrPurchase(

PurchaseID VARCHAR(5) PRIMARY KEY NOT NULL CHECK(PurchaseID LIKE('PU[0-9][0-9][0-9]')),

StaffID VARCHAR(5) FOREIGN KEY REFERENCES MsStaff(StaffID) ON UPDATE CASCADE ON DELETE CASCADE,

VendorID VARCHAR(5) FOREIGN KEY REFERENCES MsVendor(VendorID),

PurchaseDate DATE CHECK ( YEAR(PurchaseDate) = YEAR(GETDATE()))

)

CREATE TABLE DetailPurchase(

PurchaseID VARCHAR(5) FOREIGN KEY REFERENCES TrPurchase(PurchaseID),

MaterialID VARCHAR(5) FOREIGN KEY REFERENCES MsMaterial(MaterialID),

PurchaseQty INT,

PRIMARY KEY(PurchaseID,MaterialID)

)

CREATE TABLE TrService(

ServiceID VARCHAR(5) PRIMARY KEY NOT NULL CHECK(ServiceID LIKE 'SR[0-9][0-9][0-9]'),

StaffID VARCHAR(5) FOREIGN KEY REFERENCES MsStaff(StaffID) ON UPDATE CASCADE ON DELETE CASCADE,

CustomerID VARCHAR(5) FOREIGN KEY REFERENCES MsCustomer(CustomerID) ON UPDATE CASCADE ON DELETE CASCADE ,

ServiceDate DATE CHECK ( YEAR(ServiceDate) = YEAR(GETDATE())),

ServiceType VARCHAR(20) CHECK (ServiceType IN('Laundry Service', 'Dry Cleaning Service', 'Ironing Service'))

)

CREATE TABLE DetailService(

ServiceID VARCHAR(5) FOREIGN KEY REFERENCES TrService(ServiceID) ,

ClothesID VARCHAR(5) FOREIGN KEY REFERENCES MsClothes(ClothesID),

ServicePrice NUMERIC (8,2),

PRIMARY KEY(ServiceID,ClothesID)

)

EXEC sp\_MSforeachtable @command1 = "DROP TABLE ?"

EXEC sp\_msforeachtable "ALTER TABLE ? NOCHECK CONSTRAINT all"

**Insert.sql**

USE RALaundry

INSERT INTO MsStaff VALUES

('ST001', 'Sinta', 'Female', 'Jl. Jend. Sudirman No.23', 2300000.00),

('ST002', 'Anto Lubis', 'Male', 'Jl. Sultan Syarif Kasim no.45', 3000000.00),

('ST003', 'Jojo', 'Male', 'Jl. Ahmad Yani no.10', 2500000.00),

('ST004', 'Edi Rizal', 'Male', 'Perum Griya Indah Blok III A09', 1500000.00),

('ST005', 'Dewi Lina', 'Female', 'Perum Taman Sentosa Blok G No.21', 1500000.00),

('ST006', 'Susi', 'Female', 'Jl. MT. Haryono No.33', 1950000.00),

('ST007', 'Rina', 'Female', 'Jl. AM. Sangaji 16', 2000000.00),

('ST008', 'Dwi Wahyu', 'Male', 'Jl. Nangka No.111', 1750000.00),

('ST009', 'Daniel Christ Martabat', 'Male', 'Jl. Tuparev no.10', 2800000.00),

('ST010', 'Helena Fransiska', 'Female', 'Jl. Rambutan no.33', 3000000.00)

INSERT INTO MsCustomer VALUES

('CU001', 'Mustika Dea', 'Female', 'Jl. Melati no.5', '1999-12-15'),

('CU002', 'Dinda', 'Female', 'Perum Soko Asri BI H/6', '1966-03-27'),

('CU003', 'Wati Agustin', 'Female', 'Jl. Pasar Baru no.109', '1980-11-12'),

('CU004', 'Heri Edi', 'Male', 'Jl. H.E.A Mokodompit no.13', '1973-05-15'),

('CU005', 'Budi Santoso', 'Male', 'Perum Dipenegoro No.57', '1999-10-1'),

('CU006', 'Thomas', 'Male', 'Jl.Tentara Rakyat Matraman 7', '1970-07-07'),

('CU007', 'Sri Ningrum', 'Female', 'Jl. Tanjung Baru 5', '1981-02-23'),

('CU008', 'Amar Teguh', 'Male', 'Jl.P.Lombok no.67', '1983-07-20'),

('CU009', 'Ria Natalia', 'Female', 'Jl. Cipto no.101', '1987-08-19'),

('CU010', 'Joseph Alvaro', 'Male', 'Jl. Siliwangi no.32', '1993-04-07'),

('CU011', 'Peter', 'Male', 'Jl. Andhounohu no.33', '1997-06-03'),

('CU012', 'Elizabeth', 'Female', 'Jl. Kolenel Wahid no.21', '1973-09-03'),

('CU013', 'Stephen', 'Male', 'Jl. Parang Tritis Raya 3-E', '1987-04-23'),

('CU014', 'Dini', 'Female', 'Jl. Nagrak Gumuruh no.19', '1970-09-27'),

('CU015', 'Maria', 'Female', 'Jl. Raya Margonda No.42', '1991-02-21')

INSERT INTO MsVendor VALUES

('VE001', 'CV. Future', 'Jl. HR Rasuna Said Kav 62 Setiabudi Atrium Lt 4', '087522110'),

('VE002', 'PT. Sentosa', 'Jl. Boulevard Artha Gading Rukan Artha Gading Niaga Bl C/29', '087763896'),

('VE003', 'CV. Global Sejahtera', 'Jl. Gondangdia Kecil 12-14 Ged Dana Graha Lt 3', '0842888402'),

('VE004', 'PT. Makmur Persada', 'Jl. RS Fatmawati 20 Rukan Fatmawati Mas Bl III/319', '087715909'),

('VE005', 'CV. Abadi Gemilang', 'Jl. Pantai Indah Utr II Pantai Indah Kapuk Bl L/8-G', '084617820'),

('VE006', 'CV. Makmur Setia', 'Jl. Raya Pasar Minggu Kav 34 Graha Sucofindo Bl B', '084759603'),

('VE007', 'CV. Mitra cahaya', 'Jl. Rawa Gelam IV 14 Kawasan Industri Pulogadung', '085200411'),

('VE008', 'PT. Indonesia', 'Jl. Jend. Sudirman Kav. 60', '088317085'),

('VE009', 'PT. Anugrah Lestari', 'Jl. Pulo Lentut Kav. II-E/4', '085359771'),

('VE010', 'PT. Bahtera Sejahtera Makmur', 'Jl. Casablanca Kav. 18', '084527897')

INSERT INTO MsClothes (ClothesID, ClothesType, ClothesName) VALUES

('CL001', 'Cotton', 'Jumpsuit'),

('CL002', 'Polyester', 'Blazer'),

('CL003', 'Linen', 'Kemeja'),

('CL004', 'Wool', 'Sweater'),

('CL005', 'Linen', 'Rok'),

('CL006', 'Wool', 'Cardigans'),

('CL007', 'Polyester', 'Celana'),

('CL008', 'Linen', 'Cardigans'),

('CL009', 'Cotton', 'Celana'),

('CL010', 'Linen', 'Blazer'),

('CL011', 'Cotton', 'Kaos'),

('CL012', 'Cotton', 'Hoodies'),

('CL013', 'Wool', 'Cardigans'),

('CL014', 'Linen', 'Celana '),

('CL015', 'Polyester', 'Cardigans'),

('CL016', 'Polyester', 'Rok'),

('CL017', 'Viscose', 'Blazer'),

('CL018', 'Viscose', 'Kemeja'),

('CL019', 'Viscose', 'Celana'),

('CL020', 'Viscose', 'Cardigans'),

('CL021', 'Linen', 'Sweater')

INSERT INTO MsMaterial (MaterialID,MaterialType,MaterialName,MaterialPrice) VALUES

('MA001', 'Equipment', 'Mesin Cuci', 3000000.00),

('MA002', 'Equipment', 'Meja Sterika', 200000.00),

('MA003', 'Equipment ', 'Keranjang', 50000.00),

('MA004', 'Supplies', 'Detergent',25000.00),

('MA005', 'Supplies', 'Pemutih Pakaian', 25000.00),

('MA006', 'Equipment', 'Setrika', 200000.00),

('MA007', 'Equipment', 'Mesin Pengering', 10000000.00),

('MA008', 'Supplies', 'Pewangi Pakaian', 25000.00),

('MA009', 'Supplies', 'Plastik Packing', 65000.00),

('MA010', 'Supplies', 'Nota/Bon',10000.00),

('MA011', 'Equipment', 'Hanger', 200000.00),

('MA012', 'Supplies', 'Pelembut/Pelicin Pakaian', 25000.00),

('MA013', 'Equipment', 'Rak Penyimpanan Baju/Lemari',500000.00)

INSERT INTO TrPurchase (PurchaseID, StaffID, PurchaseDate, VendorID)VALUES

('PU001','ST001','2019-01-12','VE001'),

('PU002','ST001','2019-02-10','VE004'),

('PU003','ST002','2019-03-23','VE005'),

('PU004','ST002','2019-03-23','VE003'),

('PU005','ST005','2019-04-19','VE010'),

('PU006','ST004','2019-06-20','VE007'),

('PU007','ST001','2019-06-30','VE009'),

('PU008','ST003','2019-07-25','VE006'),

('PU009','ST010','2019-07-29','VE008'),

('PU010','ST009','2019-08-17','VE009'),

('PU011','ST008','2019-09-03','VE004'),

('PU012','ST010','2019-09-07','VE003'),

('PU013','ST007','2019-10-09','VE009'),

('PU014','ST008','2019-11-05','VE004'),

('PU015','ST006','2019-11-16','VE010'),

('PU016','ST002','2019-11-29','VE002')

INSERT INTO TrService VALUES

('SR001','ST001','CU004','2019-01-15','Laundry Service'),

('SR002','ST002','CU001','2019-01-15','Dry Cleaning Service'),

('SR003','ST005','CU003','2019-02-19','Ironing Service'),

('SR004','ST003','CU001','2019-03-15', 'Laundry Service'),

('SR005','ST010','CU010','2019-03-15','Dry Cleaning Service'),

('SR006','ST009','CU009','2019-04-15', 'Laundry Service'),

('SR007','ST008','CU008','2019-04-15','Dry Cleaning Service'),

('SR008','ST007','CU007','2019-05-15', 'Ironing Service'),

('SR009','ST006','CU006','2019-05-15', 'Laundry Service'),

('SR010','ST004','CU005','2019-06-15','Dry Cleaning Service'),

('SR011','ST003','CU004','2019-07-15','Dry Cleaning Service'),

('SR012','ST002','CU003','2019-07-15', 'Ironing Service'),

('SR013','ST001','CU002','2019-10-15','Dry Cleaning Service'),

('SR014','ST008','CU002','2019-11-15', 'Ironing Service'),

('SR015','ST009','CU009','2019-12-15', 'Ironing Service'),

('SR016','ST010','CU008','2019-12-16','Laundry Service')

INSERT INTO DetailPurchase VALUES

('PU001','MA008',10),

('PU001','MA004',7),

('PU001','MA005',8),

('PU002','MA004',5),

('PU002','MA005',9),

('PU002','MA009',50),

('PU003','MA007',2),

('PU003','MA013',2),

('PU004','MA006',10),

('PU004','MA011',15),

('PU005','MA012',10),

('PU005','MA010',12),

('PU006','MA003',30),

('PU006','MA006',15),

('PU007','MA005',6),

('PU007','MA002',7),

('PU008','MA006',15),

('PU008','MA011',8),

('PU009','MA009',30),

('PU010','MA008',20),

('PU011','MA004',14),

('PU012','MA002',6),

('PU013','MA009',8),

('PU014','MA012',15),

('PU015','MA008',3),

('PU016','MA009',4)

INSERT INTO DetailService VALUES

('SR001','CL005',45000.00),

('SR001','CL002',45000.00),

('SR002','CL003',80000.00),

('SR002','CL004',70000.00),

('SR003','CL005',25000.00),

('SR003','CL011',50000.00),

('SR004','CL007',90000.00),

('SR005','CL012',75000.00),

('SR006','CL009',34000.00),

('SR007','CL004',52000.00),

('SR007','CL021',50000.00),

('SR008','CL003',50000.00),

('SR009','CL012',64000.00),

('SR010','CL013',25000.00),

('SR010','CL014',50000.00),

('SR010','CL008',25000.00),

('SR011','CL015',70000.00),

('SR012','CL002',30000.00),

('SR012','CL003',30000.00),

('SR013','CL003',20000.00),

('SR013','CL004',20000.00),

('SR013','CL010',40000.00),

('SR014','CL010',22000.00),

('SR014','CL011',20000.00),

('SR015','CL005',25000.00),

('SR015','CL006',20000.00),

('SR015','CL009',20000.00),

('SR016','CL021',50000.00)

Case.sql

--CASE

USE RALaundry

EXEC sp\_msforeachtable "SELECT \* FROM ?"

--1

SELECT

c.CustomerID,

c.CustomerName,

[TotalTransactionPrice] = SUM(ServicePrice)

FROM MsCustomer c, TrService ts, DetailService ds

WHERE c.CustomerID=ts.CustomerId AND

ts.ServiceID= ds.ServiceID AND

DATENAME(MONTH,ServiceDate)='July' AND

c.CustomerGender LIKE 'Male'

GROUP BY c.CustomerID, c.CustomerName

--2

SELECT

StaffName,

PurchaseDate,

[TotalTransaction]

FROM MsStaff ms, (

SELECT

StaffID,

PurchaseDate,

[TotalTransaction]=COUNT(PurchaseID)

FROM TrPurchase

GROUP BY StaffID,PurchaseDate

) AS tp

WHERE ms.StaffID=tp.StaffID AND

TotalTransaction > 1 AND

StaffName LIKE '%o%'

--3

SELECT

VendorName,

[PurchaseDate]=CONVERT(VARCHAR,PurchaseDate,107),

[TotalTransaction] = COUNT(tr.PurchaseID),

[TotalPurchasePrice] = SUM(PurchaseQty\*MaterialPrice)

FROM MsVendor mv JOIN TrPurchase tr

ON mv.VendorID =tr.VendorID JOIN DetailPurchase dp

ON tr.PurchaseID = dp.PurchaseID JOIN MsMaterial mm

ON mm.MaterialID = dp.MaterialID

WHERE VendorName LIKE 'PT.%' AND

DATENAME(DAY,PurchaseDate) % 2 !=0

GROUP BY VendorName, [PurchaseDate]

--4

SELECT

StaffName,

MaterialName,

[TotalTransaction] = COUNT(tp.PurchaseID),

[TotalQuantity] =CAST([TotalQuantity] AS VARCHAR) + ' pcs'

FROM MsStaff ms JOIN TrPurchase tp

ON ms.StaffID = tp.StaffID JOIN

(

SELECT

PurchaseID,

MaterialID,

[TotalQuantity]= SUM(PurchaseQty)

FROM DetailPurchase

GROUP BY PurchaseID, MaterialID

) AS dp

ON tp.PurchaseID = dp.PurchaseID JOIN MsMaterial mm

ON dp.MaterialID = mm.MaterialID

WHERE DATENAME(MONTH,PurchaseDate) = 'July' AND

[TotalQuantity] < 9

GROUP BY StaffName, MaterialName, [TotalQuantity]

--atau--

SELECT

StaffName,

MaterialName,

[TotalTransaction] = COUNT(tp.PurchaseID),

[TotalQuantity] =CAST(SUM(PurchaseQty) AS VARCHAR) + ' pcs'

FROM MsStaff ms JOIN TrPurchase tp

ON ms.StaffID = tp.StaffID JOIN DetailPurchase dp

ON tp.PurchaseID = dp.PurchaseID JOIN MsMaterial mm

ON mm.MaterialID = dp.MaterialID

WHERE DATENAME(MONTH,PurchaseDate) = 'July'

GROUP BY StaffName, MaterialName

HAVING SUM(PurchaseQty) <9

--5

SELECT

[MaterialID]= REPLACE(mm.MaterialID,'MA','Material '),

--[MaterialID] = STUFF(MaterialID,1,2,'Material '),

[MaterialName]= UPPER(MaterialName),

PurchaseDate,

[Quantity] = PurchaseQty

FROM TrPurchase tp, DetailPurchase dp, MsMaterial mm, (

SELECT [Average] = AVG(PurchaseQty)

FROM DetailPurchase

) AS av

WHERE

tp.PurchaseID=dp.PurchaseID AND

dp.MaterialID = mm.MaterialID AND

MaterialType = 'Supplies' AND

PurchaseQty > Average

ORDER BY MaterialID ASC

--6

SELECT

StaffName,

CustomerName,

[ServiceDate] = CONVERT(VARCHAR,ServiceDate,106)

FROM MsCustomer mc, TrService ts,(

SELECT StaffID, StaffName, StaffSalary

FROM MsStaff

WHERE CHARINDEX(' ', StaffName)=0

) AS ms

WHERE

ms.StaffID = ts.StaffID AND

ts.CustomerID = mc.CustomerID AND

StaffSalary > (

SELECT [AvgSalary] = AVG(StaffSalary)

FROM MsStaff

)

--7

SELECT

ClothesName,

[TotalTransaction] = CAST([TotalTransactions] AS VARCHAR) + ' transaction',

[ServiceType],

ServicePrice

FROM (

SELECT

ClothesID,

[TotalTransactions]=COUNT(ts.ServiceID),

[ServiceType] = SUBSTRING(ServiceType,1,CHARINDEX(' ',ServiceType)-1),

ServicePrice

FROM TrService ts JOIN DetailService ds

ON ts.ServiceID = ds.ServiceID

GROUP BY ClothesID, [ServiceType], ServicePrice

) AS ds, MsClothes mc

WHERE

ds.ClothesID = mc.ClothesID AND

ServicePrice < (

SELECT [AveragePrice] = AVG(ServicePrice)

FROM DetailService

) AND

ClothesType LIKE 'Cotton'

--8

SELECT

[StaffFirstName]=SUBSTRING(StaffName,1,CHARINDEX(' ',StaffName)-1),

VendorName,

--[VendorPhoneNumber]= REPLACE(VendorPhoneNumber,'08','+628'),

--[VendorPhoneNumber]= STUFF(VendorPhoneNumber,1,2,'+628'),

[VendorPhoneNumber]= '+628' + SUBSTRING(VendorPhoneNumber,3,LEN(VendorPhoneNumber)),

[TotalTransaction] = COUNT(tp.PurchaseID)

FROM MsVendor mv, TrPurchase tp, DetailPurchase dp,

(

SELECT \*

FROM MsStaff

WHERE StaffName LIKE '% %'

--AND StaffName NOT LIKE '% % %'

) AS ms

WHERE

ms.StaffID = tp.StaffID AND

tp.VendorID = mv.VendorID AND

dp.PurchaseID = tp.PurchaseID AND

PurchaseQty > (

SELECT [Average] = AVG(PurchaseQty)

FROM DetailPurchase

)

GROUP BY StaffName, VendorName, VendorPhoneNumber

--9

--ALTER VIEW ViewMaterialPurchase

CREATE VIEW ViewMaterialPurchase

AS

SELECT

MaterialName,

[MaterialPrice] = 'Rp. ' + CAST(CAST(CAST(MaterialPrice AS INT)AS SMALLMONEY)AS VARCHAR),

[TotalTransaction],

[TotalPrice]

FROM MsMaterial mm,

(

SELECT

dp.MaterialID,

[TotalTransaction] = COUNT (PurchaseID),

[TotalPrice] = SUM(PurchaseQty\*MaterialPrice)

FROM DetailPurchase dp JOIN MsMaterial mm ON dp.MaterialID = mm.MaterialID

GROUP BY dp.MaterialID

) as dp

WHERE

dp.MaterialID = mm.MaterialID AND

MaterialType LIKE 'Supplies' AND

[TotalTransaction] >2

DROP VIEW ViewMaterialPurchase

SELECT \* FROM ViewMaterialPurchase

--10

--ALTER VIEW ViewMaleCustomerTransaction

CREATE VIEW ViewMaleCustomerTransaction

AS

SELECT

--ts.ServiceID,

CustomerName,

ClothesName,

[TotalTransaction]= COUNT(ts.ServiceID),

[TotalPrice] = SUM(ServicePrice)

FROM MsCustomer mcu, MsClothes mcl, TrService ts,

(

SELECT

ServiceID,

ClothesID,

ServicePrice

FROM DetailService

) AS ds

WHERE

mcu.CustomerID = ts.CustomerID AND

ts.ServiceID = ds.ServiceID AND

ds.ClothesID = mcl.ClothesID AND

CustomerGender LIKE 'Male' AND

ClothesType IN ('Wool','Linen')

GROUP BY CustomerName, ClothesName

SELECT \* FROM ViewMaleCustomerTransaction

DROP VIEW ViewMaleCustomerTransaction

**Simulate.sql**

USE RALaundry

--SIMULASI TRANSAKSI

--1. Transaksi Service (Customer menggunakan jasa cuci pakaian)

--KASUS 1

--Ada seorang pelanggan tetap bernama Ria Natalia.

--Dia ingin mencuci beberapa pakaiannya yang diantaranya rok linen cl005 dan cardigan polyester cl015.

--Jasa cuci yang ingin dia gunakan adalah Laundry Service.

--Seorang staff bernama Anto Lubis menerima barang pelanggan dan memproses barang tersebut ke dalam sistem.

--Anto perlu mengambil data pelanggan tersebut.

SELECT \* FROM MsCustomer WHERE CustomerName LIKE 'Ria Natalia'

--Setelah itu, Anto membuat struk pembayaran yang didalamnya terdapat beberapa informasi penting dan sebagai surat pengambilan barang.

--Di dalam struk tersebut tertulis nomor struk, nama staff yang bertanggung jawab, nama pelanggan, tanggal cetak struk, jasa cuci yang diinginkan, harga yang ditentukan oleh staff, dan jenis baju

INSERT INTO TrService VALUES ('SR017','ST002','CU009','2019-12-15','Laundry Service')

INSERT INTO DetailService VALUES ('SR017','CL005',25000.00),('SR017','CL015',30000.00)

--KASUS 2

--Di hari yang sama, ada seorang pelanggan baru bernama Thania Lesmana ingin menggunakan jasa dry cleaning dengan kode CL003, CL007, CL009, dan sebuah jaket berbahan katun yang belum terdaftar dalam sistem.

--Seorang staff bernama Sinta(ST001) menerima barang pelanggan dan memproses barang tersebut ke dalam sistem.

--Karena Thania Lesmana merupakan pelanggan baru, maka Sinta meminta beberapa data pribadi untuk dimasukkan ke dalam sistem.

INSERT INTO MsCustomer VALUES ('CU016', 'Thania Lesmana', 'Female', 'Jl. K.H. Syahdan No. 14', '1997-09-15')

-- setelah memasukkan data pelanggan, Sinta memasukan informasi mengenai jaket

INSERT INTO MsClothes (ClothesID,ClothesType,ClothesName) VALUES ('CL022', 'Cotton', 'Jaket')

-- lalu dibuatlah sebuah struk pembayaran

INSERT INTO TrService VALUES ('SR018','ST001','CU016','2019-12-15','Dry Cleaning Service')

INSERT INTO DetailService VALUES ('SR018','CL003',30000.00),('SR018','CL007',20000.00),('SR018','CL009',23000.00)

--KASUS 3

--Ada seorang pelanggan tetap bernama Peter(CU011).

--Dia ingin mencuci beberapa pakaiannya dengan kode : CL020, CL011, CL012, CL014.

--Jasa cuci yang ingin dia gunakan adalah Ironing Service.

--Peter ingin hasil cuciannya dikirimkan ke tempat tinggal barunya di Jl. Rawa Belong No. 10 yang sebelumnya tidak tersimpan dalam sistem RALaundry

--Seorang staff bernama Helena Fransiska (ST010) menerima barang pelanggan dan memproses barang tersebut ke dalam sistem.

--Anto perlu mengambil data pelanggan tersebut dan melakukan perubahan pada bagian alamat pelanggan.

SELECT \* FROM MsCustomer WHERE CustomerName LIKE 'Peter'

UPDATE MsCustomer

SET CustomerAddress = 'Jl. Rawa Belong No. 10'

WHERE CustomerName LIKE 'Peter'

-- pembuatan struk

INSERT INTO TrService VALUES ('SR019','ST010','CU011','2019-12-16','Ironing Service')

INSERT INTO DetailService VALUES ('SR019','CL020',20000.00),('SR019','CL011',15000.00),('SR019','CL012',23000.00),('SR019','CL014',10000.00)

--2. Transaksi Purchase (Stok alat dan bahan)

--KASUS 1

--Ada vendor baru (VE011) dengan nama PT. Setia Selalu yang beralamat di Jl. Penggangsaan Timur No. 10 dan no telp 08123452345 menawarkan penjualan barang detergen, pemutih pakaian, dan pewangi pakaian dengan harga terjangkau

INSERT INTO MsVendor VALUES ('VE011', 'PT. Setia Selalu', 'Jl. Penggangsaan Timur No. 10', '08123452345')

--Staff ST003 melakukan sedikit pembelian untuk mencoba apakah barang milik vendor tersebut bagus

INSERT INTO TrPurchase VALUES('PU017','ST003','VE011','2019-12-10')

INSERT INTO DetailPurchase VALUES ('PU017','MA004',1),('PU017','MA005',2),('PU017','MA008',2)

--KASUS 2

-- staff ST007 membeli plastik packing 100 pcs melalui vendor langganan yang terkenal, dengan kode vendor VE006 seperti yang terdaftar dalam sistem.

SELECT \* FROM MsVendor WHERE VendorID LIKE'VE006'

INSERT INTO TrPurchase VALUES ('PU018','ST007','VE006','2019-12-08')

INSERT INTO DetailPurchase VALUES ('PU018','MA009',100)

-- namun ternyata vendor tersebut tidak menjual plastik, sehingga data transaksi harus dibuang dan dibuat kembali untuk membeli pada vendor VE002

DELETE FROM DetailPurchase

WHERE PurchaseID LIKE 'PU018'

DELETE FROM TrPurchase

WHERE PurchaseID LIKE 'PU018'

INSERT INTO TrPurchase VALUES ('PU018','ST007','VE002','2019-12-08')

INSERT INTO DetailPurchase VALUES ('PU018','MA009',100)

--KASUS 3

-- Staff ST010 membeli sebuah mesin cuci karena kebutuhan laundry yang semakin meningkat.

-- Ia membeli mesin tersebut melalui vendor VE006 yang ternyata sudah berganti no telp ke no. 0898768756

-- Agar staff lain tidak kesulitan, maka staff ST010 melakukan perubahan pada data VE006

UPDATE MsVendor

SET VendorPhoneNumber = 0898768756

WHERE VendorID LIKE 'VE006'

--Staff tersebut pun memesan mesin cuci melalui vendor tersebut. PEmbelian yang dilakukan oleh staff akan masuk ke dalam pembukuan

SELECT \* FROM MsVendor WHERE VendorID LIKE'VE006'

INSERT INTO TrPurchase VALUES ('PU019','ST007','VE006','2019-12-18')

INSERT INTO DetailPurchase VALUES ('PU019','MA001',1)

## Referensi

*References*

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