Alfi Futuhi

5 April 2021

Assignment 1

Use [Assignments 1]

Drop Table [TransactionItem];

Drop Table [Item];

Drop Table [Supplier];

Drop Table [Transaction];

CREATE TABLE [Transaction] (

Id int IDENTITY(101,1) PRIMARY KEY,

OrderDate Date,

);

INSERT INTO [Transaction] (OrderDate)

VALUES ('2012-10-10');

INSERT INTO [Transaction] (OrderDate)

VALUES ('2012-10-15');

INSERT INTO [Transaction] (OrderDate)

VALUES ('2012-11-05');

INSERT INTO [Transaction] (OrderDate)

VALUES ('2012-11-20');

INSERT INTO [Transaction] (OrderDate)

VALUES ('2012-11-30');

SELECT \* FROM [Transaction];

CREATE TABLE Supplier(

[Sup\_Id] varchar(50) PRIMARY KEY,

[Name] varchar(50),

JoinDate date,

);

INSERT INTO Supplier([Sup\_Id], [Name], JoinDate)

VALUES('SP01', 'PT. Synnex Metrodata Indonesia', '2018-01-15');

INSERT INTO Supplier([Sup\_Id], [Name], JoinDate)

VALUES('SP02', 'PT. Metrodata Indonesia', '2018-01-16');

INSERT INTO Supplier([Sup\_Id], [Name], JoinDate)

VALUES('SP03', 'PT. Mitra Informatika Indonesia', '2018-01-16');

INSERT INTO Supplier([Sup\_Id], [Name], JoinDate)

VALUES('SP04', 'PT. Metro Mobile', '2018-01-15');

SELECT [Sup\_Id] as Id, [Name], JoinDate FROM Supplier;

CREATE TABLE Item(

It\_Id varchar(50) PRIMARY KEY,

[Name] varchar(50),

Price int,

Stock int,

[Supplier\_id] varchar(50) NOT NULL REFERENCES Supplier(Sup\_Id),

);

INSERT INTO Item(It\_Id, [Name], Price, Stock, Supplier\_Id)

VALUES('B01','Developer .Net', 6000000, 11, 'SP03');

INSERT INTO Item(It\_Id, [Name], Price, Stock, Supplier\_Id)

VALUES('B02', 'Developer Java', 6000000, 10, 'SP02');

INSERT INTO Item(It\_Id, [Name], Price, Stock, Supplier\_Id)

VALUES('B03', 'Developer C#', 5500000, 10, 'SP04');

INSERT INTO Item(It\_Id, [Name], Price, Stock, Supplier\_Id)

VALUES('B04', 'Developer Python', 5500000, 10, 'SP02');

SELECT It\_Id as Id, [Name], Price, Stock, Supplier\_id FROM Item;

CREATE TABLE TransactionItem(

TI\_Id varchar(50) PRIMARY KEY,

Quantity int,

Transaction\_id int NOT NULL REFERENCES [Transaction](Id),

Item\_Id varchar(50) NOT NULL REFERENCES [Item](It\_Id),

);

INSERT INTO TransactionItem(TI\_Id, Quantity, Transaction\_id, Item\_Id)

VALUES('01', 10, 101, 'B01');

INSERT INTO TransactionItem(TI\_Id, Quantity, Transaction\_id, Item\_Id)

VALUES('02', 5, 101, 'B02');

INSERT INTO TransactionItem(TI\_Id, Quantity, Transaction\_id, Item\_Id)

VALUES('03', 4, 102, 'B04');

INSERT INTO TransactionItem(TI\_Id, Quantity, Transaction\_id, Item\_Id)

VALUES('04', 5, 103, 'B03');

INSERT INTO TransactionItem(TI\_Id, Quantity, Transaction\_id, Item\_Id)

VALUES('05', 10, 104, 'B04');

INSERT INTO TransactionItem(TI\_Id, Quantity, Transaction\_id, Item\_Id)

VALUES('06', 3, 105, 'B02');

SELECT TI\_Id as Id, Quantity, Transaction\_id, Item\_id from TransactionItem;

--1A

SELECT

Item.It\_Id as 'Kode Barang',

Item.[Name] as 'Nama Barang',

Supplier.[Name] as 'Supplier'

FROM

Item INNER JOIN Supplier

ON Item.Supplier\_id = Supplier.Sup\_Id;

--1B

SELECT

[TransactionItem].Transaction\_id as 'Nomor Faktur',

Supplier.[Name] as 'Supplier',

Item.[Name] as 'Barang',

Item.Price as Price

FROM

([TransactionItem] INNER JOIN Item ON TransactionItem.Item\_Id = It\_Id )

INNER JOIN Supplier ON Item.Supplier\_id = Sup\_Id

WHERE

[TransactionItem].Transaction\_Id = 101;

--1C

SELECT

[TransactionItem].Transaction\_id as 'Nomor Faktur',

Item.[Name] as 'Barang',

TransactionItem.Quantity as Quantity,

Item.price as Price,

(TransactionItem.Quantity\*Item.Price) as 'Total Harga'

FROM

(TransactionItem INNER JOIN Item ON TransactionItem.Item\_Id = It\_Id)

INNER JOIN Supplier ON Item.Supplier\_id = Sup\_Id

--2

SELECT

[TransactionItem].Transaction\_id as 'Nomor Faktur',

FORMAT(SUM(Item.Price\*TransactionItem.Quantity),'N') as 'Total Faktur',

[Transaction].OrderDate as 'Tanggal Faktur',

DATEADD(day, 14, [Transaction].OrderDate) as 'Jatuh Tempo'

FROM

(TransactionItem INNER JOIN [Transaction] ON [Transaction].Id = TransactionItem.Transaction\_id)

INNER JOIN Item ON TransactionItem.Item\_Id = It\_Id

GROUP BY

Transaction\_id,

[Transaction].OrderDate;

--3a

SELECT

Item.[Name] as 'Name',

SUM(TransactionItem.Quantity) as 'Quantity'

FROM

(Item INNER JOIN TransactionItem ON Item.It\_Id = TransactionItem.Item\_Id)

INNER JOIN [Transaction] ON TransactionItem.Transaction\_id = [Transaction].Id

GROUP BY Item.[Name];

--3b

SELECT

Item.[Name] as 'Name',

TransactionItem.Quantity as 'Quantity'

FROM

(Item INNER JOIN TransactionItem ON Item.It\_Id = TransactionItem.Item\_Id)

INNER JOIN [Transaction] ON TransactionItem.Transaction\_id = [Transaction].Id

WHERE

[Transaction].OrderDate LIKE '2012-10%';

--4

SELECT

Item.[Name] as 'Name',

SUM(CASE WHEN [Transaction].OrderDate LIKE '2012-10%' THEN TransactionItem.Quantity ELSE 0 END) as 'October',

SUM(CASE WHEN [Transaction].OrderDate LIKE '2012-11%' THEN TransactionItem.Quantity ELSE 0 END) as 'November',

SUM(CASE WHEN [Transaction].OrderDate LIKE '2012-12%' THEN TransactionItem.Quantity ELSE 0 END) as 'December'

FROM

(Item INNER JOIN TransactionItem ON Item.It\_Id = TransactionItem.Item\_Id)

INNER JOIN [Transaction] ON TransactionItem.Transaction\_id = [Transaction].Id

GROUP BY Item.[Name];

--5

SELECT

ISNULL(item.[Name], 'TOTAL') as 'Name',

SUM(CASE WHEN [Transaction].OrderDate LIKE '2012-10%' THEN TransactionItem.Quantity ELSE 0 END) as 'October',

SUM(CASE WHEN [Transaction].OrderDate LIKE '2012-11%' THEN TransactionItem.Quantity ELSE 0 END) as 'November',

SUM(CASE WHEN [Transaction].OrderDate LIKE '2012-12%' THEN TransactionItem.Quantity ELSE 0 END) as 'December'

FROM

(Item INNER JOIN TransactionItem ON Item.It\_Id = TransactionItem.Item\_Id)

INNER JOIN [Transaction] ON TransactionItem.Transaction\_id = [Transaction].Id

GROUP BY

--Item.[Name],

ROLLUP(Item.[Name]);