Nama Peserta: Indra Gunawan Budiharjo

Kode Peserta : FSDO001ONL027

Tugas : Assignment 2

Screenshot

1. Table offices

Graphical user interface, application

Description automatically generated

Query:

**CREATE** **TABLE** offices(

office\_id **INT** **IDENTITY**(1,1) **PRIMARY** **KEY**,

city **VARCHAR**(100) **NULL**,

phone **VARCHAR**(50) **NULL**,

address\_line\_1 **VARCHAR**(100) **NULL**,

address\_line\_2 **VARCHAR**(100) **NULL**,

state **VARCHAR**(100) **NULL**,

country **VARCHAR**(100) **NULL**,

postal\_code **VARCHAR**(50) **NULL**,

territory **VARCHAR**(100) **NULL**

);

**INSERT** **INTO** offices(city, phone, address\_line\_1, address\_line\_2, state, country, postal\_code, territory)

**VALUES** ('Malang', '0341315562', 'Jl. Apel no 2', **NULL**, 'Jawa Timur', 'Indonesia', '22314', 'Malang Kota'),

('Surabaya', '0315776231', 'Jl. Merapi no 40', **NULL**, 'Jawa Timur', 'Indonesia', '47512', 'Surabaya Kota'),

('Jakarta', '0213312448', 'Jl. Gatot Subroto 22', **NULL**, 'Jawa Barat', 'Indonesia', '33502', 'Jakarta Utara'),

('Bandung', '0221488762', 'Jl. Sumatra no 31', **NULL**, 'Jawa Barat', 'Indonesia', '66741', 'Bandung Kota'),

('Yogyakarta', '0319580272', 'Jl. Bromo no 7', **NULL**, 'Jawa Tengah', 'Indonesia', '76331', 'Yogyakarta Kota');

2. Table employeesGraphical user interface, application

Description automatically generated

Query:

**CREATE** **TABLE** employees(

employee\_id **INT** **IDENTITY**(1,1) **PRIMARY** **KEY**,

first\_name **VARCHAR**(100) **NULL**,

last\_name **VARCHAR**(100) **NULL**,

extension **VARCHAR**(100) **NULL**,

email **VARCHAR**(100)**NULL**,

office\_id **INT** **NULL**,

reports\_to **INT** **NULL**,

job\_title **VARCHAR**(100) **NULL**,

**CONSTRAINT** FK\_employees\_office **FOREIGN** **KEY** (office\_id)

**REFERENCES** offices (office\_id),

**CONSTRAINT** FK\_employees\_report **FOREIGN** **KEY** (reports\_to)

**REFERENCES** employees (employee\_id)

);

**INSERT** **INTO** employees(first\_name, last\_name, extension, email, office\_id, reports\_to, job\_title)

**VALUES** ('Hadi', 'Kusuma', '1 year', 'hadi@xyz.com', 1, 2 , 'Sales'),

('Sandi', 'Mukti', '5 year', 'sandi@xyz.com', 1, **NULL** , 'Manager'),

('Rahmat', 'Wijaya', '2 year', 'rahmat@xyz.com', 2, 4 , 'Officer'),

('Fikri', **NULL**, '5 year', 'fikri@xyz.com', 2, **NULL**, 'Executive'),

('Andri', 'Suryajaya', '2 year', 'andri@xyz.com', 3, 6 , 'Sales'),

('Bryan', 'Jonathan', '5 year', 'bryan@xyz.com', 3, **NULL**, 'Manager'),

('Septi', 'Muliawati', '1 year', 'septi@xyz.com', 4, 7, 'Sales'),

('Silvi', 'Ajeng', '2 year', 'silvi@xyz.com', 5, **NULL**, 'Executive');

3. Table customersGraphical user interface

Description automatically generated with medium confidence

Query:

**CREATE** **TABLE** customers(

customer\_id **INT** **IDENTITY**(1,1) **PRIMARY** **KEY**,

customer\_name **VARCHAR**(100) **NULL**,

contact\_last\_name **VARCHAR**(100) **NULL**,

contact\_first\_name **VARCHAR**(100) **NULL**,

phone **VARCHAR**(50) **NULL**,

address\_line\_1 **VARCHAR**(100) **NULL**,

address\_line\_2 **VARCHAR**(100) **NULL**,

city **VARCHAR**(100) **NULL**,

state **VARCHAR**(100) **NULL**,

postal\_code **VARCHAR**(50) **NULL**,

country **VARCHAR**(100) **NULL**,

sales\_rep\_employee\_number **INT** **NULL**,

credit\_limit **DECIMAL**(18,2) **NULL**,

**CONSTRAINT** FK\_customers\_employee **FOREIGN** **KEY** (sales\_rep\_employee\_number)

**REFERENCES** employees (employee\_id)

);

**INSERT** **INTO** customers(customer\_name, contact\_last\_name, contact\_first\_name, phone, address\_line\_1, address\_line\_2, city, state, postal\_code, country, sales\_rep\_employee\_number, credit\_limit)

**VALUES** ('Stevi', 'Halim', 'Stevi', '089522113344', 'Jl. Wuni no 2', **NULL** , 'Malang', 'Jawa Timur', '65543', 'Indonesia', 1, 20000000),

('Jordy', 'Jordy', 'Jordy', '089233177622', 'Jl. Mawar no 5', **NULL** , 'Malang', 'Jawa Timur', '65541', 'Indonesia', 1, 20000000),

('Steve', 'Pratama', 'Steve', '08124417680', 'Jl. Manggis no 10', **NULL** , 'Malang', 'Jawa Timur', '63527', 'Indonesia', 1, 15000000),

('Putri', 'Elena', 'Putri', '081325513301', 'Jl. Dieng no 25', **NULL** , 'Jakarta', 'DKI Jakarta', '65543', 'Indonesia', 5, 20000000),

('Hansen', 'Salim', 'Hansen', '089577922145', 'Jl. Anggur no 1', **NULL** , 'Jakarta', 'DKI Jakarta', '65411', 'Indonesia', 5, 15000000),

('Devin', 'Devin', 'Devin', '082133661980', 'Jl. Semeru no 21', **NULL** , 'Bandung', 'Jawa Barat', '41543', 'Indonesia', 7, 20000000),

('Ratna', 'Sari', 'Ratna', '082331382111', 'Jl. Agung no 12', **NULL** , 'Bandung', 'Jawa Barat', '41123', 'Indonesia', 7, 20000000);

4. Table orders A picture containing text

Description automatically generated

Query:

**CREATE** **TABLE** orders(

order\_id **INT** **IDENTITY**(1,1) **PRIMARY** **KEY**,

order\_date **DATETIME** **NULL**,

required\_date **DATETIME** **NULL**,

shipped\_date **DATETIME** **NULL**,

status **VARCHAR**(50) **NULL**,

comments **VARCHAR**(255) **NULL**,

customer\_id **INT** **NULL**,

**CONSTRAINT** FK\_orders\_customer **FOREIGN** **KEY** (customer\_id)

**REFERENCES** customers (customer\_id)

);

**INSERT** **INTO** orders(order\_date, required\_date, shipped\_date, status, comments, customer\_id)

**VALUES** ('2021-07-21', '2021-07-21', '2021-07-22', 'sampai tujuan','Bintang 5', 1),

('2021-07-25', '2021-07-25', '2021-07-27', 'sampai tujuan','Sesuai Ekspetasi', 2),

('2021-08-01', '2021-08-01', '2021-08-01', 'sampai tujuan','Mantap', 3),

('2021-08-01', '2021-08-01', '2021-08-02', 'sampai tujuan','Bagus', 4),

('2021-08-04', '2021-08-04', '2021-08-05', 'sampai tujuan','Sesuai', 4),

('2021-08-10', '2021-08-10', '2021-08-10', 'sedang dikirim',**NULL**, 5),

('2021-08-11', '2021-08-11', '2021-08-11', 'sedang dikirim',**NULL**, 6),

('2021-08-11', '2021-08-11', '2021-08-12', 'sedang dikirim',**NULL**, 7);

5. Table product\_lines

Graphical user interface, text, application

Description automatically generated

Query:

**CREATE** **TABLE** product\_lines(

product\_line\_id **INT** **IDENTITY**(1,1) **PRIMARY** **KEY**,

product\_line **VARCHAR**(100) **NULL**,

text\_description **VARCHAR**(255) **NULL**,

html\_description **VARCHAR**(255) **NULL**,

**image** **VARCHAR**(255) **NULL**

);

**INSERT** **INTO** product\_lines(product\_line, text\_description, html\_description, **image**)

**VALUES** ('Gadget', 'Elektronik berupa hp', 'gadget', 'bit.ly/gdgt'),

('Olahraga', 'Alat olahraga', 'olahraga', 'bit.ly/olhrg'),

('Kecantikan', 'Make up, Parfum, Pembersih, dll', 'kecantikan', 'bit.ly/kcntkn'),

('Fashion', 'Baju, Celana, Sepatu, dll', 'fashion', 'bit.ly/fshn'),

('Buku', 'Buku cerita, novel, buku pelajaran, dll', 'buku', 'bit.ly/buku');

6. Table products Graphical user interface, application

Description automatically generated

Query:

**CREATE** **TABLE** products(

product\_id **INT** **IDENTITY**(1,1) **PRIMARY** **KEY**,

product\_line\_id **INT** **NULL**,

product\_name **VARCHAR**(150) **NULL**,

product\_scale **DECIMAL**(5,2) **NULL**,

product\_vendor **VARCHAR**(150) **NULL**,

product\_description **VARCHAR**(255) **NULL**,

quantity\_in\_stock **INT** **NULL**,

buy\_price **DECIMAL**(18,2) **NULL**,

msrp **DECIMAL**(18,2) **NULL**

**CONSTRAINT** FK\_products\_product\_lines **FOREIGN** **KEY** (product\_line\_id)

**REFERENCES** product\_lines (product\_line\_id),

)

**INSERT** **INTO** products(product\_line\_id, product\_name, product\_scale, product\_vendor, product\_description, quantity\_in\_stock, buy\_price, msrp)

**VALUES** (1, 'Sangsum S11', 90, 'Sangsum', 'hape terkeren masa kini', 100, 10500000, 12000000),

(1, 'Hauwei P40', 90, 'hauwei', 'hape terbaik', 91, 11500000, 13000000),

(2, 'Pull Up Bar', 85, 'sportz','pull up bar kokoh', 200, 500000, 700000),

(2, 'Bola Voli', 89, 'Mikaza', 'bola voli standar internasional', 150, 750000, 900000),

(3, 'Serum', 90, 'beauti', 'serum vitamin wajah', 50, 600000, 700000),

(3, 'Face cleanser', 85, 'beauti', 'pembersih wajah', 101, 120000, 150000),

(4, 'Oversize Shirt', 80, 'trendz', 'baju oversized trendi', 80, 150000, 250000),

(4, 'Sweater Premium Limited', 85, 'trendz', 'sweater keren limited', 30, 600000, 700000),

(5, 'Petualangan si udin', 85, 'penerbit sinar', 'novel fiksi tentang petualangan seseorang', 150, 80000, 100000),

(5, 'Mimpi Indah', 80, 'penerbit satu', 'puisi-puisi', 100, 80000, 100000);

7. Table order\_details

Graphical user interface, application

Description automatically generated

Query:

**CREATE** **TABLE** order\_details(

order\_id **INT** **NOT** **NULL**,

product\_id **INT** **NOT** **NULL**,

quantity\_ordered **INT** **NULL**,

price\_each **DECIMAL**(18,2) **NULL**,

order\_line\_number **INT** **NULL**,

**CONSTRAINT** FK\_order\_details\_order **FOREIGN** **KEY** (order\_id)

**REFERENCES** orders (order\_id),

**CONSTRAINT** FK\_order\_details\_product **FOREIGN** **KEY** (product\_id)

**REFERENCES** products (product\_id),

**PRIMARY** **KEY** (order\_id, product\_id)

);

**INSERT** **INTO** order\_details (order\_id, product\_id, quantity\_ordered, price\_each, order\_line\_number)

**VALUES** (1, 1, 1, 12000000, 1),

(1, 3, 1, 700000, 2),

(2, 3, 1, 700000, 1),

(2, 4, 1, 900000, 2),

(3, 2, 1, 13000000, 1),

(4, 5, 2, 700000, 1),

(5, 6, 3, 150000, 1),

(6, 7, 1, 250000, 1),

(6, 8, 1, 700000, 2),

(7, 9, 1, 100000, 1),

(8, 10, 1, 100000, 1);

8. Table PaymentGraphical user interface, text, application

Description automatically generated

Query:

**CREATE** **TABLE** payments(

payment\_id **INT** **IDENTITY**(1,1) **PRIMARY** **KEY**,

customer\_id **INT** **NULL**,

payment\_date **DATE** **NULL**,

amount **DECIMAL**(18,2) **NULL**,

**CONSTRAINT** FK\_payments\_customer **FOREIGN** **KEY** (customer\_id)

**REFERENCES** customers (customer\_id)

);

**INSERT** **INTO** payments (customer\_id, payment\_date, amount)

**VALUES** (1, '2021-07-30', 12700000),

(2, '2021-07-30', 1600000),

(3, '2021-08-10', 13000000),

(4, '2021-08-20', 850000),

(5, '2021-08-20', 950000),

(6, '2021-08-30', 100000),

(7, '2021-08-30', 100000);

-- Query data

-- 1. tampilkan nama customer, order\_id, nama produk, harga tiap produk dari customer\_id 4

Graphical user interface, text, application, email

Description automatically generated

Query:

**SELECT** c.customer\_name, o.order\_id, p.product\_name, od.price\_each

**FROM** customers c

**INNER** **JOIN** orders o **on** c.customer\_id = o.customer\_id

**INNER** **JOIN** order\_details od **on** o.order\_id = od.order\_id

**INNER** **JOIN** products p **on** od.product\_id = p.product\_id

**WHERE** c.customer\_id = 4;

-- 2. tampilkan nama barang dengan jumlah stok terbanyak

Graphical user interface, text, application

Description automatically generated

Query:

**SELECT** product\_name, quantity\_in\_stock **FROM** products

**WHERE** quantity\_in\_stock = (**SELECT** **max**(quantity\_in\_stock) **FROM** products);

-- 3. tampilkan product yang paling banyak yang diorder

Graphical user interface, text, application

Description automatically generated

Query:

**SELECT** a.product\_name

**FROM** (**SELECT** p.product\_name, **SUM**(od.quantity\_ordered) **as** total\_ordered

**FROM** order\_details od

**INNER** **JOIN** products p

**ON** od.product\_id = p.product\_id

**GROUP** **BY** p.product\_name) a

**WHERE** a.total\_ordered = (**SELECT** **MAX**(b.total\_ordered)

**FROM** (**SELECT** p.product\_name, **SUM**(od.quantity\_ordered) **as** total\_ordered

**FROM** order\_details od

**INNER** **JOIN** products p

**ON** od.product\_id = p.product\_id

**GROUP** **BY** p.product\_name) b)