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Kode Peserta : 002 (FSDO001ONL002)

Tugas : Assignment 2

Buat sebuah database Bank dan tentunya dokumentasikan setiap query yang anda buat di dalamnya dengan memasukkan setiap record pada setiap tabel.

1. Nomor 1

a. Soal

Create database Bank

b. Jawaban query

```
CREATE database Bank;
```

2. Nomor 2

a. Soal

Create tabel customers => stores data customer

b. Jawaban query

```
CREATE table Customers(  
    customerNumber varchar(10) primary key,  
    customerName varchar(100),  
    contactLastName varchar(50),  
    contactFirstName varchar(50),  
    phone varchar(13),  
    addressLine1 varchar(100),  
    addressLine2 varchar(100),  
    city varchar(50),  
    state varchar(50),  
    postalCode varchar(5),  
    country varchar(50),  
    salesRepEmployeeNumber varchar(10),  
    creditLimit int  
)
```

```
ALTER TABLE Customers  
ADD CONSTRAINT fk_customers_employee  
FOREIGN KEY (salesRepEmployeeNumber) REFERENCES Employee(employeeNumber);
```

```
INSERT INTO  
Customers(customerNumber,customerName,contactLastName,contactFirstName,phon  
e,addressLine1,addressLine2,city,state,postalCode,country,salesRepEmployeeN  
umber,creditLimit)  
VALUES('C0001','Darren','Christopher','Nathan','0894638298301','Taman Kopo  
Indah 1 Blok A2 No. 100','Margahayu Selatan, Kec. Margahayu','Bandung','Jawa  
Barat','40226','Indonesia','E0001',100000000),
```

```
( 'C0002', 'Benedectus', 'Putra', 'Yesa', '0838290546712', 'Margaasih Permai Blok Q6 No. 11', 'Margaasih, Kec. Margaasih Tengah', 'Bandung', 'Jawa Barat', '40214', 'Indonesia', 'E0004', 150000000),
( 'C0003', 'Raymond', 'Riyadi', 'Agustian', '0837829034674', 'Jalan Boulevard Timur Raya Blok C No. 43', 'Kelapa Gading, Kec. Kelapa Gading Tim', 'Jakarta', 'DKI Jakarta', '14240', 'Indonesia', 'E0002', 125000000),
( 'C0004', 'Cella', 'Christabel', 'Clarissa', '0864830389290', 'Jalan Pahlawan No. 28', 'Pleburan, Kec. Semarang Selatan', 'Semarang', 'Jawa Tengah', '50241', 'Indonesia', 'E0003', 300000000),
( 'C0005', 'Cher', 'Adelyn', 'Charis', '0878026543816', 'Jalan Ahmad Yani No. 127', 'Ketintang, Kec. Gayungan', 'Surabaya', 'Jawa Timur', '60231', 'Indonesia', 'E0005', 250000000);
```

c. Screenshot output

Table Name:	Customers	ID:	837578022
Object description (comment):		Type:	U

  

Column Name	#	Type	Length	Scale	Precision	Not Null	Identity	Default	Collation	Description
ABC customer...	1	varchar	10			[v]	[ ]		SQL_Latin1_General_CP1_CI_AS	
ABC customer...	2	varchar	100			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	
ABC contactLas...	3	varchar	50			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	
ABC contactFir...	4	varchar	50			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	
ABC phone	5	varchar	13			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	
ABC addressLin...	6	varchar	100			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	
ABC addressLin...	7	varchar	100			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	
ABC city	8	varchar	50			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	
ABC state	9	varchar	50			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	
ABC postalCode	10	varchar	5			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	
ABC country	11	varchar	50			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	
ABC salesRepE...	12	varchar	10			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	
123 creditLimit	13	int	4		10	[ ]	[ ]			

  

Results 1

select \* from Customers; Enter a SQL expression to filter results (use Ctrl+Space)

Grid	ABC customerNumber	ABC customerName	ABC contactLastName	ABC contactFirstName	ABC phone	ABC addressLine1	ABC addressLine2
1	C0001	Darren	Christopher	Nathan	0894638298301	Taman Kopo Indah 1 Blok A2 No. 100	Margahayu Selatan, Kec. Margahayu
2	C0002	Benedectus	Putra	Yesa	0838290546712	Margaasih Permai Blok Q6 No. 11	Margaasih, Kec. Margaasih Tengah
3	C0003	Raymond	Riyadi	Agustian	0837829034674	Jalan Boulevard Timur Raya Blok C No. 43	Kelapa Gading, Kec. Kelapa Gading Tim
4	C0004	Cella	Christabel	Clarissa	0864830389290	Jalan Pahlawan No. 28	Pleburan, Kec. Semarang Selatan
5	C0005	Cher	Adelyn	Charis	0878026543816	Jalan Ahmad Yani No. 127	Ketintang, Kec. Gayungan

  

ABC city	ABC state	ABC postalCode	ABC country	ABC salesRepEmployeeNumber	123 creditLimit
Bandung	Jawa Barat	40226	Indonesia	E0001	100,000,000
Bandung	Jawa Barat	40214	Indonesia	E0004	150,000,000
Jakarta	DKI Jakarta	14240	Indonesia	E0002	125,000,000
Semarang	Jawa Tengah	50241	Indonesia	E0003	300,000,000
Surabaya	Jawa Timur	60231	Indonesia	E0005	250,000,000

3. Nomor 3

a. Soal

Create tabel products => stores daftar/list model product (dalam hal ini bisa mobil/motor dll)

b. Jawaban query

```
CREATE table Products(
    productCode varchar(10) primary key,
    productName varchar(100),
    productLine varchar(50),
    productScale varchar(50),
    productVendor varchar(100),
    productDescription varchar(150),
```

```

        quantityInStock int,
        buyPrice int,
        MSRP int
    )

```

```

ALTER TABLE Products
ADD CONSTRAINT fk_products_productlines
FOREIGN KEY (productLine) REFERENCES Productlines(productLine);

```

```

INSERT INTO
Products(productCode,productName,productLine,productScale,productVendor,pro
ductDescription,quantityInStock,buyPrice,MSRP)
VALUES('P0001','WR250Xr','PL0004','Premium','Yamaha','WR250R adalah sepeda
motor dual-sport yang bermesin 250cc dan didukung bahan bakar premium
berpendingin cairan, yang diumpankan bahan bakar
premium',56,80000000,92800000),
('P0002','Agya','PL0003','Low Cost','Toyota','Agya merupakan Low Cost Green
Car (LCGC) yang menawarkan tampilan yang modern, lincah dan irit bahan
bakar',249,116000000,124000000),
('P0003','Versys-X 250 Tourer','PL0001','Premium','Kawasaki','Versys-X 250
Tourer dibuat sedemikian rupa sehingga pengendara tetap tegak dan nyaman
dalam perjalanan',28,50000000,54600000),

('P0004','Pajero Sport','PL0002','Luxury','Mitsubishi','Pajero Sport
merupakan SUV bermesin diesel yang memiliki tampilan atraktif dan tenaga yang
besar',164,780000000,835000000),
('P0005','Sportster Iron 883 2009','PL0005','Luxury','Harley-
Davidson','Sportster Iron 883 2009 memiliki jok rendah, proporsi body kecil
dan desain yang simple',32,165000000,178000000);

```

### c. Screenshot output

Table Name:

Products

ID:

709577566

Object description (comment):

Type:

U

Columns

	Column Name	#	Type	Length	Scale	Precision	Not Null	Identity	Default	Collation	Description
Unique Keys	ABC productCo...	1	varchar	10			[v]	[ ]		SQL_Latin1_General_CP1_CI_AS	
Check constraints	ABC productNa...	2	varchar	100			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	
Foreign Keys	ABC productLine	3	varchar	50			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	
Indexes	ABC productSc...	4	varchar	50			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	
References	ABC productVe...	5	varchar	100			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	
Triggers	123 quantityIn...	7	int	4		10	[ ]	[ ]			
Extended Properties	123 buyPrice	8	int	4		10	[ ]	[ ]			
Statistics	123 MSRP	9	int	4		10	[ ]	[ ]			
DDL											
Virtual											

Results 1

select \* from Products;

Enter a SQL expression to filter results (use Ctrl+Space)

	ABC productCode	ABC productName	ABC productLine	ABC productScale	ABC productVendor	ABC productDescription	123 quantityInStock
1	P0001	WR250Xr	PL0004	Premium	Yamaha	WR250R adalah sepeda motor dual-sport yang bermesin	56
2	P0002	Agya	PL0003	Low Cost	Toyota	Agya merupakan Low Cost Green Car (LCGC) yang mer	249
3	P0003	Versys-X 250 Tourer	PL0001	Premium	Kawasaki	Versys-X 250 Tourer dibuat sedemikian rupa sehingga p	28
4	P0004	Pajero Sport	PL0002	Luxury	Mitsubishi	Pajero Sport merupakan SUV bermesin diesel yang mer	164
5	P0005	Sportster Iron 883 2009	PL0005	Luxury	Harley-Davidson	Sportster Iron 883 2009 memiliki jok rendah, proporsi bi	32

123 buyPrice	123 MSRP
80,000,000	92,800,000
116,000,000	124,000,000
50,000,000	54,600,000
780,000,000	835,000,000
165,000,000	178,000,000

#### 4. Nomor 4

##### a. Soal

Create tabel productlines => stores daftar/list kategori product

##### b. Jawaban query

```
CREATE table Productlines(
    productLine varchar(50) primary key,
    textDescription varchar(150),
    htmlDescription varchar(150),
    image varchar(100)
)
```

```
INSERT INTO Productlines(productLine,textDescription,htmlDescription,image)
VALUES('PL0001','Motor Sport Touring','Motor sport touring adalah jenis
kendaraan roda dua yang termasuk ke dalam motor sport yang mengutamakan
kenyamanan berkendara','img/sporttouring.jpeg'),
('PL0002','Mobil SUV','Mobil SUV merupakan jenis mobil yang tidak kalah
populer dari mobil MPV yang memadukan mobil jeep dan mobil
sedan','img/suv.jpeg'),
('PL0003','Mobil Hatchback','Hatchback merupakan sebuah mobil turunan yang
bagian bagasinya khusus ditiadakan dan bagian belakangnya dibentuk seperti
MPV','img/hatchback.jpeg'),
('PL0004','Motor Cross','Motor cross merupakan motor offroad bike dengan
memiliki posisi mesin yang tinggi, ban kasar yang dikhususkan untuk melibas
medan berat','img/cross.jpeg'),
('PL0005','Motor Cruiser','Motor cruiser merupakan motor yang memiliki posisi
stang yang tinggi serta posisi kaki yang relatif ke depan yang mempunyai
posisi kursi rendah','img/cruiser.jpeg');
```

##### c. Screenshot output

The screenshot displays the SQL Server Enterprise Manager interface. The 'Properties' tab is active, showing the table 'Productlines' with ID 581577110 and type 'U'. Below this, the 'Columns' section lists the table's structure:

Column Name	#	Type	Length	Scale	Precision	Not Null	Identity	Default	Collation
productLine	1	varchar	50			[v]	[ ]		SQL_Latin1_General_CP1_CI_AS
textDescri...	2	varchar	150			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS
htmlDescri...	3	varchar	150			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS
image	4	varchar	100			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS

Below the column list, the 'Results' tab shows the data inserted into the table:

productLine	textDescription	htmlDescription	image
PL0001	Motor Sport Touring	Motor sport touring adalah jenis kendaraan roda dua yang termasuk ke dalam motor sport yang mengutamakan kenyamanan berkendara	img/sporttouring.jpeg
PL0002	Mobil SUV	Mobil SUV merupakan jenis mobil yang tidak kalah populer dari mobil MPV yang memadukan mobil jeep dan mobil sedan	img/suv.jpeg
PL0003	Mobil Hatchback	Hatchback merupakan sebuah mobil turunan yang bagian bagasinya khusus ditiadakan dan bagian belakangnya dibentuk seperti MPV	img/hatchback.jpeg
PL0004	Motor Cross	Motor cross merupakan motor offroad bike dengan memiliki posisi mesin yang tinggi, ban kasar yang dikhususkan untuk melibas medan berat	img/cross.jpeg
PL0005	Motor Cruiser	Motor cruiser merupakan motor yang memiliki posisi stang yang tinggi serta posisi kaki yang relatif ke depan yang mempunyai posisi kursi rendah	img/cruiser.jpeg

## 5. Nomor 5

### a. Soal

Create tabel orders => store order sales oleh customer

### b. Jawaban query

```
CREATE table Orders(
    orderNumber varchar(10) primary key,
    orderDate Date,
    requiredDate Date,
    shippedData Date,
    status varchar(50),
    comments varchar(150),
    customerNumber varchar(10)
)
```

```
ALTER TABLE Orders
```

```
ADD CONSTRAINT fk_orders_customers
```

```
FOREIGN KEY (customerNumber) REFERENCES Customers(customerNumber);
```

```
INSERT
```

```
INTO
```

```
Orders(orderNumber,orderDate,requiredDate,shippedData,status,comments,customerNumber)
```

```
VALUES ('OR0001','12-10-2019','01-16-2020','12-20-2019','Completed','Pesanan telah selesai tanpa ada komplain','C0003'),
('OR0002','07-04-2020','08-30-2020','07-15-2020','Completed','Pesanan telah selesai namun barang rusak','C0005'),
('OR0003','08-17-2019','09-10-2020','08-27-2019','Completed','Pesanan telah selesai namun terlambat','C0001'),
('OR0004','10-09-2021','11-08-2021','10-13-2021','In Progress','Pesanan sedang dalam perjalanan','C0004'),
('OR0005','10-02-2021','10-31-2021','10-08-2021','In Progress','Pesanan sedang dalam perjalanan','C0002');
```

### c. Screenshot output

Properties

Data

ER Diagram

master

Databases

Bank

Schemas

Table Name:

Orders

ID:

741577680

Object description (comment):

Type:

U

Columns

	Column Name	#	Type	Length	Scale	Precision	Not Null	Identity	Default	Collation	Description
Unique Keys	orderNum...	1	varchar	10			[v]	[ ]		SQL_Latin1_General_CP1_CI_AS	
Check constraints	orderDate	2	date	3		10	[ ]	[ ]			
Foreign Keys	requiredD...	3	date	3		10	[ ]	[ ]			
Indexes	shippedData	4	date	3		10	[ ]	[ ]			
References	status	5	varchar	50			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	
Triggers	comments	6	varchar	150			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	
	customer...	7	varchar	10			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	

Results 1

select \* from Orders;

Enter a SQL expression to filter results (use Ctrl+Space)

	orderNumber	orderDate	requiredDate	shippedData	status	comments	customerNumber
1	OR0001	2019-12-10	2020-01-16	2019-12-20	Completed	Pesanan telah selesai tanpa ada komplain	C0003
2	OR0002	2020-07-04	2020-08-30	2020-07-15	Completed	Pesanan telah selesai namun barang rusak	C0005
3	OR0003	2019-08-17	2020-09-10	2019-08-27	Completed	Pesanan telah selesai namun terlambat	C0001
4	OR0004	2021-10-09	2021-11-08	2021-10-13	In Progress	Pesanan sedang dalam perjalanan	C0004
5	OR0005	2021-10-02	2021-10-31	2021-10-08	In Progress	Pesanan sedang dalam perjalanan	C0002

6. Nomor 6

a. Soal

Create tabel orderdetails => store item order sales dalam setiap order sales

b. Jawaban query

```
CREATE table OrderDetails(
    orderLineNumber varchar(10) primary key,
    orderNumber varchar(10),
    productCode varchar(10),
    quantityOrdered int,
    priceEach int
)
```

```
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);
```

```
INSERT INTO
OrderDetails(orderLineNumber,orderNumber,productCode,quantityOrdered,priceEach)
VALUES('OL0001','OR0005','P0003',3,54600000),
('OL0002','OR0003','P0001',2,92800000),
('OL0003','OR0001','P0002',1,124000000),
('OL0004','OR0002','P0004',1,835000000),
('OL0005','OR0004','P0005',2,178000000);
```

c. Screenshot output

The screenshot displays the SQL Server Enterprise Manager interface. The 'Properties' tab is active, showing the table 'OrderDetails' with ID '917578307' and type 'U'. Below the table properties, a list of columns is shown:

Column Name	#	Type	Length	Scale	Precision	Not Null	Identity	Default	Collation
ABC orderLine...	1	varchar	10			[v]	[ ]		SQL_Latin1_General_CP1_CI_AS
ABC orderNum...	2	varchar	10			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS
ABC productCo...	3	varchar	10			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS
123 quantityOr...	4	int	4		10	[ ]	[ ]		
123 priceEach	5	int	4		10	[ ]	[ ]		

Below the column list, the 'Results 1' tab shows the query results for the SQL statement: `select * from OrderDetails;`

Grid	ABC orderLineNumber	ABC orderNumber	ABC productCode	123 quantityOrdered	123 priceEach
1	OL0001	OR0005	P0003	3	54,600,000
2	OL0002	OR0003	P0001	2	92,800,000
3	OL0003	OR0001	P0002	1	124,000,000
4	OL0004	OR0002	P0004	1	835,000,000
5	OL0005	OR0004	P0005	2	178,000,000

## 7. Nomor 7

### a. Soal

Create tabel payments => store pembayaran oleh customer sesuai dengan akun pembayaran

### b. Jawaban query

```
CREATE table Payments(
    checkNumber varchar(10) primary key,
    customerNumber varchar(10),
    paymentDate Date,
    amount int
)
```

```
ALTER TABLE Payments
ADD CONSTRAINT fk_payments_customers
FOREIGN KEY (customerNumber) REFERENCES Customers(customerNumber);
```

```
INSERT INTO Payments(checkNumber,customerNumber,paymentDate,amount)
VALUES ('PY0001', 'C0004', '10-10-2021', 356000000),
('PY0002', 'C0002', '10-05-2021', 163800000),
('PY0003', 'C0003', '12-14-2019', 124000000),
('PY0004', 'C0005', '07-10-2020', 835000000),
('PY0005', 'C0001', '08-22-2019', 185600000);
```

### c. Screenshot output

The screenshot displays the SQL Server Enterprise Manager interface. The 'Properties' tab is active, showing the table 'Payments' with ID 789577851. The 'Columns' section lists the following columns:

Column Name	#	Type	Length	Scale	Precision	Not Null	Identity	Default	Collation	Description
checkNu...	1	varchar	10			[v]	[ ]		SQL_Latin1_General_CP1_CI_AS	
customer...	2	varchar	10			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	
paymentD...	3	date	3		10	[ ]	[ ]			
amount	4	int	4		10	[ ]	[ ]			

The 'Results' tab shows the output of the query 'select \* from Payments;'. The data is displayed in a grid with 5 rows and 5 columns:

	checkNumber	customerNumber	paymentDate	amount
1	PY0001	C0004	2021-10-10	356,000,000
2	PY0002	C0002	2021-10-05	163,800,000
3	PY0003	C0003	2019-12-14	124,000,000
4	PY0004	C0005	2020-07-10	835,000,000
5	PY0005	C0001	2019-08-22	185,600,000

## 8. Nomor 8

### a. Soal

Create tabel employee => store informasi karyawan dalam sebuah organisasi struktur

b. Jawaban query

```
CREATE table Employee(
    employeeNumber varchar(10) primary key,
    lastName varchar(50),
    firstName varchar(50),
    extension varchar(100),
    email varchar(100),
    officeCode varchar(10),
    reportsTo varchar(50),
    jobTitle varchar(100)
)

ALTER TABLE Employee
ADD CONSTRAINT fk_employee_offices
FOREIGN KEY (officeCode) REFERENCES Offices(officeCode);
```

```
INSERT INTO
Employee(employeeNumber,lastName,firstName,extension,email,officeCode,reportsTo,jobTitle)
VALUES('E0001','Gabriela','Priscilla','Tidak','priscilla@gmail.com','00004',
'IT Manager','Full Stack Developer'),
('E0002','Sarah','Ellena','Ya','ellena@gmail.com','00002','IT Assistant
Manager','System Engineer'),
('E0003','Jordi','Evan','Ya','evan@gmail.com','00005','Customer Service
Manager','Customer Service Staff'),
('E0004','Gabriela','Victorya','Tidak','victorya@gmail.com','00002','IT
Intern Mentor','System Analyst Intern'),
('E0005','Axel','Verrell','Ya','verrell@gmail.com','00003','Loan
Manager','Loan Staff');
```

c. Screenshot output

Properties

Data

ER Diagram

master

Databases

Bank

Schemas

Table Name:

Employee

ID:

645577338

Object description (comment):

Type:

U

Columns

	Column Name	#	Type	Length	Scale	Precision	Not Null	Identity	Default	Collation	Description
Unique Keys	ABC employee...	1	varchar	10			[v]	[ ]		SQL_Latin1_General_CP1_CI_AS	
Check constraints	ABC lastName	2	varchar	50			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	
Foreign Keys	ABC firstName	3	varchar	50			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	
Indexes	ABC extension	4	varchar	100			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	
References	ABC email	5	varchar	100			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	
Triggers	ABC officeCode	6	varchar	10			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	
Extended Properties	ABC reportsTo	7	varchar	50			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	
	ABC jobTitle	8	varchar	100			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	

Results 1

select \* from Employee;

Enter a SQL expression to filter results (use Ctrl+Space)

	ABC employeeNumber	ABC lastName	ABC firstName	ABC extension	ABC email	ABC officeCode	ABC reportsTo	ABC jobTitle
1	E0001	Gabriela	Priscilla	Tidak	priscilla@gmail.com	00004	IT Manager	Full Stack Developer
2	E0002	Sarah	Ellena	Ya	ellena@gmail.com	00002	IT Assistant Manager	System Engineer
3	E0003	Jordi	Evan	Ya	evan@gmail.com	00005	Customer Service Manager	Customer Service Staff
4	E0004	Gabriela	Victorya	Tidak	victorya@gmail.com	00002	IT Intern Mentor	System Analyst Intern
5	E0005	Axel	Verrell	Ya	verrell@gmail.com	00003	Loan Manager	Loan Staff



## 9. Nomor 9

### a. Soal

Create tabel offices => store data sales office

### b. Jawaban query

```
CREATE table Offices(
    officeCode varchar(10) primary key,
    city varchar(50),
    phone varchar(13),
    addressLine1 varchar(100),
    addressLine2 varchar(100),
    state varchar(50),
    country varchar(50),
    postalCode varchar(5),
    territory varchar(50)
)

INSERT INTO
Offices(officeCode,city,phone,addressLine1,addressLine2,state,country,postalCode,territory)
VALUES ('00001','Bandung','022-4159000','Jalan Asia Afrika No. 100','Cikawao,
Kec. Lengkong','Jawa Barat','Indonesia','40261','Bandung Pusat'),
('00002','Jakarta','021-25533888','Jalan Prof. DR. Satrio Blok C4 No.
25','Kuningan, Kec. Setiabudi','DKI Jakarta','Indonesia','12950','Jakarta
Selatan'),
('00003','Semarang','024-8455926','Jalan Brigjend Katamso No. 4-
5A','Peterongan, Kec. Semarang Sel','Jawa
Tengah','Indonesia','50242','Semarang Selatan'),
('00004','Bandung','022-5424012','Jalan Kopo Sayati No. 100 A','Sayati, Kec.
Margahayu','Jawa Barat','Indonesia','40228','Bandung Selatan'),
('00005','Surabaya','031-28937000','Jalan Mayjen HR. Muhammad No.
36','Pradahkalikendal, Kec. Dukuhpakis',
'Surabaya','Indonesia','40261','Surabaya Pusat');
```

### c. Screenshot output

Table Name:	Offices	ID:	613577224
Object description (comment):		Type:	U

  

Column Name	#	Type	Length	Scale	Precision	Not Null	Identity	Default	Collation	Description
ABC officeCode	1	varchar	10			[v]	[ ]		SQL_Latin1_General_CP1_CI_AS	
ABC city	2	varchar	50			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	
ABC phone	3	varchar	13			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	
ABC addressLin...	4	varchar	100			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	
ABC addressLin...	5	varchar	100			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	
ABC state	6	varchar	50			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	
ABC country	7	varchar	50			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	
ABC postalCode	8	varchar	5			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	
ABC territory	9	varchar	50			[ ]	[ ]		SQL_Latin1_General_CP1_CI_AS	

  

Results 1	Grid	Text
select * from Offices;		
	ABC officeCode	ABC city
1	00001	Bandung
2	00002	Jakarta
3	00003	Semarang
4	00004	Bandung
5	00005	Surabaya

## 10. Join dan subquery (improve)

- a. Select customerName, orderDate, amount dari customer yang order date nya antara 01-01-2020 dan 12-31-2021

```
SELECT a.customerName,b.orderDate,c.amount FROM Customers a JOIN Orders b
ON a.customerNumber = b.customerNumber
JOIN Payments c
ON b.customerNumber = c.customerNumber
WHERE b.orderDate BETWEEN '01-01-2020' AND '12-31-2021';
```

Results 1

SQL: SELECT a.customerName,b.orderDate,c.amount

	customerName	orderDate	amount
1	Cher	2020-07-04	835,000,000
2	Cella	2021-10-09	356,000,000
3	Benedectus	2021-10-02	163,800,000

- b. Select firstName, territory dari employee yang territory nya mengandung kata 'Selatan'

```
SELECT a.firstName,b.territory from Employee a JOIN Offices b
ON a.officeCode = b.officeCode
WHERE b.territory like '%Selatan%';
```

Results 1

SQL: SELECT a.firstName,b.territory from Empl

	firstName	territory
1	Priscilla	Bandung Selatan
2	Ellena	Jakarta Selatan
3	Victorya	Jakarta Selatan
4	Verrell	Semarang Selatan

- c. Select customerName, creditLimit, amount dari customer yang memiliki limit kredit melebihi rata-rata keseluruhan limit kredit

```
SELECT a.customerName,a.creditLimit,b.amount FROM Customers a JOIN Payments
b
ON a.customerNumber = b.customerNumber
WHERE a.creditLimit >
(SELECT AVG(creditLimit)
FROM Customers);
```

Results 1

SQL: SELECT a.customerName,a.creditLimit,b.ame

	customerName	creditLimit	amount
1	Cella	300,000,000	356,000,000
2	Cher	250,000,000	835,000,000