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CREATE DATABASE G
USE G
DROP TABLE IF EXISTS Payment;
DROP TABLE IF EXISTS Shipping;
DROP TABLE IF EXISTS Customer_Address;
DROP TABLE IF EXISTS Individual_Order;
DROP TABLE IF EXISTS Product;
DROP TABLE IF EXISTS Customer;
DROP TABLE IF EXISTS Supplier;
DROP TABLE IF EXISTS Warehouse;
DROP TABLE IF EXISTS Employee;
DROP TABLE IF EXISTS Department;
DROP TABLE IF EXISTS Store;

CREATE TABLE Customer (
    CustomerID INT IDENTITY(1,1) PRIMARY KEY,
    Email VARCHAR(255) UNIQUE NOT NULL,
    FirstName VARCHAR(100) NOT NULL,
    LastName VARCHAR(100) NOT NULL,
    PhoneNumber VARCHAR(20) NOT NULL CHECK (LEN(PhoneNumber) >= 10)
);

CREATE TABLE Supplier (
    SupplierID INT IDENTITY(1,1) PRIMARY KEY,
    SupplierName VARCHAR(255) NOT NULL,
    ContactInfo VARCHAR(255) NOT NULL
);

CREATE TABLE Warehouse (
    WarehouseID INT IDENTITY(1,1) PRIMARY KEY,
    Capacity INT CHECK (Capacity > 0),
    Location VARCHAR(255) NOT NULL
);

CREATE TABLE Product (
    ProductID INT IDENTITY(1,1) PRIMARY KEY,
    SupplierID INT,
    WarehouseID INT,
    ProductName VARCHAR(255) NOT NULL,
    Description VARCHAR(MAX),
    Price DECIMAL(10, 2),
    StockLevel INT,
    Status NVARCHAR(50),
    CreatedOn DATETIME,
    ModifiedOn DATETIME
);

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Price DECIMAL(10,2) CHECK (Price >= 0),
Category VARCHAR(100),
StockQuantity INT CHECK (StockQuantity >= 0),
Rating DECIMAL(2,1) CHECK (Rating BETWEEN 0 AND 5),
FOREIGN KEY (SupplierID) REFERENCES Supplier(SupplierID),
FOREIGN KEY (WarehouseID) REFERENCES Warehouse(WarehouseID)
);

CREATE TABLE Individual_Order (
    OrderID INT IDENTITY(1,1) PRIMARY KEY,
    CustomerID INT,
    ProductID INT,
    OrderDate DATE NOT NULL,
    TotalAmount DECIMAL(10,2) CHECK (TotalAmount >= 0),
    Quantity INT CHECK (Quantity > 0),
    Price DECIMAL(10,2) CHECK (Price >= 0),
    FOREIGN KEY (CustomerID) REFERENCES Customer(CustomerID),
    FOREIGN KEY (ProductID) REFERENCES Product(ProductID)
);

CREATE TABLE Payment (
    PaymentID INT IDENTITY(1,1) PRIMARY KEY,
    OrderID INT,
    PaymentMethod VARCHAR(50) NOT NULL,
    PaymentDate DATE NOT NULL,
    PaymentStatus VARCHAR(50) CHECK (PaymentStatus IN ('Pending', 'Completed',
'Failed')),
    TotalAmount DECIMAL(10,2) CHECK (TotalAmount >= 0),
    FOREIGN KEY (OrderID) REFERENCES Individual_Order(OrderID)
);

CREATE TABLE Customer_Address (
    AddressID INT IDENTITY(1,1) PRIMARY KEY,
    CustomerID INT,
    Street VARCHAR(255) NOT NULL,
    City VARCHAR(100) NOT NULL,
    State VARCHAR(100) NOT NULL,
    ZipCode VARCHAR(10) NOT NULL,
    AddressType VARCHAR(50) CHECK (AddressType IN ('Home', 'Work')),
    FOREIGN KEY (CustomerID) REFERENCES Customer(CustomerID)
);

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CREATE TABLE Shipping (
    ShippingID INT IDENTITY(1,1) PRIMARY KEY,
    OrderID INT,
    AddressID INT,
    ShippingMethod VARCHAR(50) NOT NULL,
    EstimatedDeliveryDate DATE NOT NULL,
    ShippingStatus VARCHAR(50) CHECK (ShippingStatus IN ('Pending', 'Shipped',
    'Delivered', 'Cancelled')),
    FOREIGN KEY (OrderID) REFERENCES Individual_Order(OrderID),
    FOREIGN KEY (AddressID) REFERENCES Customer_Address(AddressID)
);

CREATE TABLE Store (
    StoreID INT IDENTITY(1,1) PRIMARY KEY,
    ManagerID INT,
    Location VARCHAR(255) NOT NULL
);

CREATE TABLE Department (
    DepartmentID INT IDENTITY(1,1) PRIMARY KEY,
    ManagerID INT,
    DepartmentName VARCHAR(255) NOT NULL,
    Location VARCHAR(255) NOT NULL
);

CREATE TABLE Employee (
    EmployeeID INT IDENTITY(1,1) PRIMARY KEY,
    WarehouseID INT,
    DepartmentID INT,
    StoreID INT,
    FirstName VARCHAR(100) NOT NULL,
    LastName VARCHAR(100) NOT NULL,
    Role VARCHAR(100) NOT NULL,
    PhoneNumber VARCHAR(20) NOT NULL,
    HireDate DATE NOT NULL,
    FOREIGN KEY (WarehouseID) REFERENCES Warehouse(WarehouseID),
    FOREIGN KEY (DepartmentID) REFERENCES Department(DepartmentID),
    FOREIGN KEY (StoreID) REFERENCES Store(StoreID)
);

-- Insert into Customer
INSERT INTO Customer (Email, FirstName, LastName, PhoneNumber) VALUES
('alice@example.com', 'Alice', 'Johnson', '1234567890'),

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('bob@example.com', 'Bob', 'Smith', '0987654321'),
('charlie@example.com', 'Charlie', 'Brown', '1112223333'),
('david@example.com', 'David', 'Williams', '2223334444'),
('eva@example.com', 'Eva', 'Miller', '3334445555'),
('frank@example.com', 'Frank', 'Davis', '4445556666'),
('grace@example.com', 'Grace', 'Wilson', '5556667777'),
('henry@example.com', 'Henry', 'Moore', '6667778888'),
('isabella@example.com', 'Isabella', 'Taylor', '7778889999'),
('jack@example.com', 'Jack', 'Anderson', '8889990000');

-- Insert into Supplier
INSERT INTO Supplier (SupplierName, ContactInfo) VALUES
('Tech Supplier', 'tech@example.com'),
('Gadget Corp', 'gadget@example.com'),
('Home Essentials', 'home@example.com'),
('Furniture World', 'furniture@example.com'),
('Auto Parts Inc.', 'auto@example.com'),
('Fashion Trends', 'fashion@example.com'),
('Sports Gear Ltd.', 'sports@example.com'),
('Health & Beauty', 'beauty@example.com'),
('Toy Kingdom', 'toys@example.com'),
('Food Supply Co.', 'food@example.com');

-- Insert into Warehouse
INSERT INTO Warehouse (Capacity, Location) VALUES
(500, 'New York'),
(700, 'Los Angeles'),
(600, 'Chicago'),
(800, 'Houston'),
(1000, 'San Francisco'),
(750, 'Miami'),
(900, 'Seattle'),
(850, 'Denver'),
(650, 'Boston'),
(550, 'Atlanta');

-- Insert into Product
INSERT INTO Product (SupplierID, WarehouseID, ProductName, Description, Price,
Category, StockQuantity, Rating) VALUES
(1, 1, 'Laptop', 'High-end gaming laptop', 1200.99, 'Electronics', 50, 4.5),
(2, 2, 'Smartphone', 'Latest model smartphone', 799.99, 'Electronics', 100, 4.2),
(3, 3, 'Blender', 'High-speed kitchen blender', 89.99, 'Home Appliances', 30, 4.0),
(4, 4, 'Sofa', 'Luxury leather sofa', 999.99, 'Furniture', 20, 4.7),
(5, 5, 'Car Tires', 'Durable all-season tires', 150.00, 'Automotive', 75, 4.1),
(6, 6, 'Jeans', 'Comfortable denim jeans', 49.99, 'Fashion', 200, 4.3),

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(7, 7, 'Basketball', 'Official size basketball', 29.99, 'Sports', 120, 4.6),
(8, 8, 'Shampoo', 'Organic herbal shampoo', 15.99, 'Beauty & Health', 300, 4.5),
(9, 9, 'LEGO Set', 'Advanced LEGO building set', 59.99, 'Toys', 90, 4.8),
(10, 10, 'Olive Oil', 'Premium extra virgin olive oil', 20.99, 'Food', 150, 4.9);
-- Insert into Individual_Order
INSERT INTO Individual_Order (CustomerID, ProductID, OrderDate, TotalAmount, Quantity,
Price) VALUES
(1, 1, '2024-03-01', 1200.99, 1, 1200.99),
(2, 2, '2024-03-02', 1599.98, 2, 799.99),
(3, 3, '2024-03-03', 89.99, 1, 89.99),
(4, 4, '2024-03-04', 999.99, 1, 999.99),
(5, 5, '2024-03-05', 300.00, 2, 150.00),
(6, 6, '2024-03-06', 99.98, 2, 49.99),
(7, 7, '2024-03-07', 59.98, 2, 29.99),
(8, 8, '2024-03-08', 47.97, 3, 15.99),
(9, 9, '2024-03-09', 179.97, 3, 59.99),
(10, 10, '2024-03-10', 62.97, 3, 20.99);
-- Insert into Payment
INSERT INTO Payment (OrderID, PaymentMethod, PaymentDate, PaymentStatus, TotalAmount)
VALUES
(1, 'Credit Card', '2024-03-02', 'Completed', 1200.99),
(2, 'PayPal', '2024-03-03', 'Completed', 1599.98),
(3, 'Bank Transfer', '2024-03-04', 'Pending', 89.99),
(4, 'Credit Card', '2024-03-05', 'Completed', 999.99),
(5, 'PayPal', '2024-03-06', 'Completed', 300.00),
(6, 'Credit Card', '2024-03-07', 'Completed', 99.98),
(7, 'Bank Transfer', '2024-03-08', 'Pending', 59.98),
(8, 'PayPal', '2024-03-09', 'Completed', 47.97),
(9, 'Credit Card', '2024-03-10', 'Completed', 179.97),
(10, 'Bank Transfer', '2024-03-11', 'Pending', 62.97);
-- Insert into Customer_Address
INSERT INTO Customer_Address (CustomerID, Street, City, State, ZipCode, AddressType)
VALUES
(1, '123 Main St', 'New York', 'NY', '10001', 'Home'),
(2, '456 Elm St', 'Los Angeles', 'CA', '90001', 'Work'),
(3, '789 Maple Ave', 'Chicago', 'IL', '60601', 'Home'),
(4, '321 Oak St', 'Houston', 'TX', '77001', 'Work'),
(5, '654 Pine St', 'San Francisco', 'CA', '94101', 'Home'),
(6, '987 Cedar Ave', 'Miami', 'FL', '33101', 'Work'),
(7, '159 Birch St', 'Seattle', 'WA', '98101', 'Home'),
(8, '753 Willow St', 'Denver', 'CO', '80201', 'Work'),
(9, '852 Aspen Ave', 'Boston', 'MA', '02101', 'Home'),

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(10, '951 Redwood St', 'Atlanta', 'GA', '30301', 'Work');

INSERT INTO Store (ManagerID, Location) VALUES
(1, 'Downtown Store'),
(2, 'Uptown Store'),
(3, 'Suburban Store'),
(4, 'Mall Branch'),
(5, 'Airport Store'),
(6, 'Train Station Store'),
(7, 'University Store'),
(8, 'Tech Park Store'),
(9, 'Residential Area Store'),
(10, 'Tourist Spot Store');

INSERT INTO Department (ManagerID, DepartmentName, Location) VALUES
(1, 'HR', 'Head Office'),
(2, 'Finance', 'Downtown'),
(3, 'IT', 'Tech Hub'),
(4, 'Operations', 'Warehouse'),
(5, 'Marketing', 'Head Office'),
(6, 'Customer Service', 'Branch 1'),
(7, 'Logistics', 'Warehouse 2'),
(8, 'Sales', 'Downtown'),
(9, 'Legal', 'Corporate Office'),
(10, 'Security', 'Mall');

INSERT INTO Employee (WarehouseID, DepartmentID, StoreID, FirstName, LastName, Role,
PhoneNumber, HireDate) VALUES
(1, 1, 1, 'John', 'Doe', 'Manager', '1234567890', '2023-01-01'),
(2, 2, 2, 'Jane', 'Smith', 'Cashier', '0987654321', '2023-02-01'),
(1, 3, 3, 'Alice', 'Brown', 'Chef', '1112223333', '2023-03-01'),
(2, 4, 4, 'Bob', 'Johnson', 'Waiter', '4445556666', '2023-04-01'),
(1, 5, 5, 'Charlie', 'Miller', 'HR', '7778889999', '2023-05-01'),
(2, 6, 6, 'Dave', 'Wilson', 'Security', '0001112222', '2023-06-01'),
(1, 7, 7, 'Eve', 'Martinez', 'Marketing', '3334445555', '2023-07-01'),
(2, 8, 8, 'Frank', 'Anderson', 'Logistics', '6667778888', '2023-08-01'),
(1, 9, 9, 'Grace', 'Thomas', 'Finance', '9990001111', '2023-09-01'),
(2, 10, 10, 'Hank', 'Garcia', 'IT Support', '2223334444', '2023-10-01');

INSERT INTO Shipping (OrderID, AddressID, ShippingMethod, EstimatedDeliveryDate,
ShippingStatus) VALUES
(1, 1, 'FedEx', '2024-03-05', 'Shipped'),

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(2, 2, 'UPS', '2024-03-06', 'Pending'),
(3, 3, 'DHL', '2024-03-07', 'Delivered'),
(4, 4, 'USPS', '2024-03-08', 'Shipped'),
(5, 5, 'Local Delivery', '2024-03-09', 'Pending'),
(6, 6, 'UPS', '2024-03-10', 'Delivered'),
(7, 7, 'DHL', '2024-03-11', 'Cancelled'),
(8, 8, 'FedEx', '2024-03-12', 'Shipped'),
(9, 9, 'USPS', '2024-03-13', 'Pending'),
(10, 10, 'Local Delivery', '2024-03-14', 'Delivered');

SELECT * FROM Customer;
SELECT * FROM Supplier;
SELECT * FROM Warehouse;
SELECT * FROM Product;
SELECT * FROM Individual_Order;
SELECT * FROM Payment;
SELECT * FROM Customer_Address;
SELECT * FROM Shipping;
SELECT * FROM Store;
SELECT * FROM Department;
SELECT * FROM Employee;
```

Results Messages

1	1	alice@example.com	Alice	Johnson	123456/090
2	2	bob@example.com	Bob	Smith	0987654321
3	3	charlie@example.com	Charlie	Brown	1112223333
4	4	david@example.com	David	Williams	2223334444
5	5	eva@example.com	Eva	Miller	3334445555
6	6	frank@example.com	Frank	Davis	4445556666
7	7	grace@example.com	Grace	Wilson	5556667777
8	8	henry@example.com	Henry	Moore	6667778888
9	9	isabella@example.com	Isabella	Taylor	7778889999
10	10	jack@example.com	Jack	Anderson	8889990000
	SupplierID	SupplierName	ContactInfo		
1	1	Tech Supplier	tech@example.com		
2	2	Gadget Corp	gadget@example.com		
3	3	Home Essentials	home@example.com		
4	4	Furniture World	furniture@example.com		
5	5	Auto Parts Inc.	auto@example.com		
6	6	Fashion Trends	fashion@example.com		
7	7	Sports Gear Ltd.	sports@example.com		
8	8	Health & Beauty	beauty@example.com		
9	9	Toy Kingdom	toys@example.com		
10	10	Food Supply Co.	food@example.com		
	WarehouseID	Capacity	Location		
1	1	500	New York		
2	2	700	Los Angeles		
3	3	600	Chicago		
4	4	800	Houston		
5	5	1000	San Francisco		
6	6	750	Miami		
7	7	900	Seattle		
8	8	850	Denver		
9	9	650	Boston		
10	10	550	Atlanta		

Ln 288, Col 1 (78 selected) Spaces: 4 UTF-8 LF SQL 30 rows MSSQL 00:00:00 localhost : G (51)

Results Messages

1	1	1	1	Laptop	High-end gaming laptop	1200.99	Electronics
2	2	2	2	Smartphone	Latest model smartphone	799.99	Electronics
3	3	3	3	Blender	High-speed kitchen blender	89.99	Home Appliances
4	4	4	4	Sofa	Luxury leather sofa	999.99	Furniture
5	5	5	5	Car Tires	Durable all-season tires	150.00	Automotive
6	6	6	6	Jeans	Comfortable denim jeans	49.99	Fashion
7	7	7	7	Basketball	Official size basketball	29.99	Sports
8	8	8	8	Shampoo	Organic herbal shampoo	15.99	Beauty & Health
9	9	9	9	LEGO Set	Advanced LEGO building set	59.99	Toys
10	10	10	10	Olive Oil	Premium extra virgin olive oil	20.99	Food

OrderID	CustomerID	ProductID	OrderDate	TotalAmount	Quantity	Price
1	1	1	2024-03-01	1200.99	1	1200.99
2	2	2	2024-03-02	1599.98	2	799.99
3	3	3	2024-03-03	89.99	1	89.99
4	4	4	2024-03-04	999.99	1	999.99
5	5	5	2024-03-05	300.00	2	150.00
6	6	6	2024-03-06	99.98	2	49.99
7	7	7	2024-03-07	59.98	2	29.99
8	8	8	2024-03-08	47.97	3	15.99
9	9	9	2024-03-09	179.97	3	59.99
10	10	10	2024-03-10	62.97	3	20.99

PaymentID	OrderID	PaymentMethod	PaymentDate	PaymentStatus	TotalAmount
1	1	Credit Card	2024-03-02	Completed	1200.99
2	2	PayPal	2024-03-03	Completed	1599.98
3	3	Bank Transfer	2024-03-04	Pending	89.99
4	4	Credit Card	2024-03-05	Completed	999.99
5	5	PayPal	2024-03-06	Completed	300.00
6	6	Credit Card	2024-03-07	Completed	99.98
7	7	Bank Transfer	2024-03-08	Pending	59.98
8	8	PayPal	2024-03-09	Completed	47.97
9	9	Credit Card	2024-03-10	Completed	179.97
10	10	Bank Transfer	2024-03-11	Pending	62.97

Ln 295, Col 1 (81 selected) Spaces: 4 UTF-8 LF SQL 30 rows MSSQL 00:00:00 localhost : G (51)

Results Messages

1	1	1	123 Main St	New York	NY	10001	Home
2	2	2	456 Elm St	Los Angeles	CA	90001	Work
3	3	3	789 Maple Ave	Chicago	IL	60601	Home
4	4	4	321 Oak St	Houston	TX	77001	Work
5	5	5	654 Pine St	San Francisco	CA	94101	Home
6	6	6	987 Cedar Ave	Miami	FL	33101	Work
7	7	7	159 Birch St	Seattle	WA	98101	Home
8	8	8	753 Willow St	Denver	CO	80201	Work
9	9	9	852 Aspen Ave	Boston	MA	02101	Home
10	10	10	951 Redwood St	Atlanta	GA	30301	Work
	ShippingID	OrderID	AddressID	ShippingMethod	EstimatedDeliveryDate	ShippingStatus	
1	1	1	1	FedEx	2024-03-05	Shipped	
2	2	2	2	UPS	2024-03-06	Pending	
3	3	3	3	DHL	2024-03-07	Delivered	
4	4	4	4	USPS	2024-03-08	Shipped	
5	5	5	5	Local Delivery	2024-03-09	Pending	
6	6	6	6	UPS	2024-03-10	Delivered	
7	7	7	7	DHL	2024-03-11	Cancelled	
8	8	8	8	FedEx	2024-03-12	Shipped	
9	9	9	9	USPS	2024-03-13	Pending	
10	10	10	10	Local Delivery	2024-03-14	Delivered	
	StoreID	ManagerID	Location				
1	1	1	Downtown Store				
2	2	2	Uptown Store				
3	3	3	Suburban Store				
4	4	4	Mall Branch				
5	5	5	Airport Store				
6	6	6	Train Station Store				
7	7	7	University Store				
8	8	8	Tech Park Store				
9	9	9	Residential Area Store				
10	10	10	Tourist Spot Store				

Ln 300, Col 1 (82 selected) Spaces: 4 UTF-8 LF SQL 30 rows MSSQL 00:00:00 localhost : G (51)

Results Messages

	DepartmentID	ManagerID	DepartmentName	Location					
1	1	1	HR	Head Office					
2	2	2	Finance	Downtown					
3	3	3	IT	Tech Hub					
4	4	4	Operations	Warehouse					
5	5	5	Marketing	Head Office					
6	6	6	Customer Service	Branch 1					
7	7	7	Logistics	Warehouse 2					
8	8	8	Sales	Downtown					
9	9	9	Legal	Corporate Office					
10	10	10	Security	Mall					
	EmployeeID	WarehouseID	DepartmentID	StoreID	FirstName	LastName	Role	PhoneNumber	HireDate
1	1	1	1	1	John	Doe	Manager	1234567890	2023-01-01
2	2	2	2	2	Jane	Smith	Cashier	0987654321	2023-01-02
3	3	1	3	3	Alice	Brown	Chef	1112223333	2023-01-03
4	4	2	4	4	Bob	Johnson	Waiter	4445556666	2023-01-04
5	5	1	5	5	Charlie	Miller	HR	7778889999	2023-01-05
6	6	2	6	6	Dave	Wilson	Security	0001112222	2023-01-06
7	7	1	7	7	Eve	Martinez	Marketing	3334445555	2023-01-07
8	8	2	8	8	Frank	Anderson	Logistics	6667778888	2023-01-08
9	9	1	9	9	Grace	Thomas	Finance	9990001111	2023-01-09
10	10	2	10	10	Hank	Garcia	IT Support	2223334444	2023-01-10

Results Messages

1	1	alice@example.com	Alice	Johnson	1234567890
2	2	bob@example.com	Bob	Smith	0987654321
3	3	charlie@example.com	Charlie	Brown	1112223333
4	4	david@example.com	David	Williams	2223334444
5	5	eva@example.com	Eva	Miller	3334445555
6	6	frank@example.com	Frank	Davis	4445556666
7	7	grace@example.com	Grace	Wilson	5556667777
8	8	henry@example.com	Henry	Moore	6667778888
9	9	isabella@example.com	Isabella	Taylor	7778889999
10	10	jack@example.com	Jack	Anderson	8889990000

SupplierID	SupplierName	ContactInfo
1	Tech Supplier	tech@example.com
2	Gadget Corp	gadget@example.com
3	Home Essentials	home@example.com
4	Furniture World	furniture@example.com
5	Auto Parts Inc.	auto@example.com
6	Fashion Trends	fashion@example.com
7	Sports Gear Ltd.	sports@example.com
8	Health & Beauty	beauty@example.com
9	Toy Kingdom	toys@example.com
10	Food Supply Co.	food@example.com

WarehouseID	Capacity	Location
1	500	New York
2	700	Los Angeles
3	600	Chicago
4	800	Houston
5	1000	San Francisco
6	750	Miami