Nama : Siti Nurcica

NIM : 2023071069

**TABEL CUSTOMERS**

CREATE TABLE customers

(

customerID INT PRIMARY KEY,

customerName VARCHAR(100),

contactName VARCHAR(100),

address VARCHAR(255),

city VARCHAR(100),

postalCode VARCHAR(20),

country VARCHAR(100)

);

INSERT INTO customers (customerID, customerName, contactName, address, city, postalCode, country)

VALUES

(1, 'Alfreds Futterkiste', 'Maria Anders', 'Obere Str. 57', 'Berlin', '12209', 'Germany'),

(2, 'Ana Trujillo Emparedados y helados', 'Ana Trujillo', 'Avda. de la Constitución 2222', 'México D.F.', '05021', 'Mexico'),

(3, 'Antonio Moreno Taquería', 'Antonio Moreno', 'Mataderos 2312', 'México D.F.', '05023', 'Mexico'),

(4, 'Around the Horn', 'Thomas Hardy', '120 Hanover Sq.', 'London', 'WA1 1DP', 'UK'),

(5, 'Berglunds snabbköp', 'Christina Berglund', 'Berguvsvägen 8', 'Luleå', 'S-958 22', 'Sweden'),

(6, 'Blauer See Delikatessen', 'Hanna Moos', 'Forsterstr. 57', 'Mannheim', '68306', 'Germany'),

(7, 'Blondel père et fils', 'Frédérique Citeaux', '24, place Kléber', 'Strasbourg', '67000', 'France'),

(8, 'Bólido Comidas preparadas', 'Martín Sommer', 'C/ Araquil, 67', 'Madrid', '28023', 'Spain'),

(9, 'Bon app’', 'Laurence Lebihans', '12, rue des Bouchers', 'Marseille', '13008', 'France'),

, 'France')

(10, 'Bottom-Dollar Marketse', 'Elizabeth Lincoln', '23 Tsawassen Blvd.', 'Tsawassen', 'T2F 8M4', 'Canada'),

(11, 'Bs Beverages', 'Victoria Ashworth', 'Fauntleroy Circus', 'London', 'EC2 5NT', 'UK'),

(12, 'Cactus Comidas para llevar', 'Patricio Simpson', 'Cerrito 333', 'Buenos Aires', '1010', 'Argentina'),

(13, 'Centro comercial Moctezuma', 'Francisco Chang', 'Sierras de Granada 9993', 'México D.F.', '05022', 'Mexico'),

(14, 'Chop-suey Chinese', 'Yang Wang', 'Hauptstr. 29', 'Bern', '3012', 'Switzerland'),

(15, 'Comércio Mineiro', 'Pedro Afonso', 'Av. dos Lusíadas, 23', 'São Paulo', '05432-043', 'Brazil'),

(16, 'Consolidated Holdings', 'Elizabeth Brown', 'Berkeley Gardens 12 Brewery', 'London', 'WX1 6LT', 'UK'),

(17, 'Drachenblut Delikatessen', 'Sven Ottlieb', 'Walserweg 21', 'Aachen', '52066', 'Germany'),

(18, 'Du monde entier', 'Janine Labrune', '67, rue des Cinquante Otages', 'Nantes', '44000', 'France'),

(19, 'Eastern Connection', 'Ann Devon', '35 King George', 'London', 'WX3 6FW', 'UK'),

(20, 'Ernst Handel', 'Roland Mendel', 'Kirchgasse 6', 'Graz', '8010', 'Austria'),

(21, 'Familia Arquibaldo', 'Aria Cruz', 'Rua Orós, 92', 'São Paulo', '05442-030', 'Brazil'),

(22, 'FISSA Fabrica Inter. Salchichas S.A.', 'Diego Roel', 'C/ Moralzarzal, 86', 'Madrid', '28034', 'Spain'),

(23, 'Folies gourmandes', 'Martine Rancé', '184, chaussée de Tournai', 'Lille', '59000', 'France'),

(24, 'Folk och fä HB', 'Maria Larsson', 'Åkergatan 24', 'Bräcke', 'S-844 67', 'Sweden'),

(25, 'Frankenversand', 'Peter Franken', 'Berliner Platz 43', 'München', '80805', 'Germany'),

(26, 'France restauration', 'Carine Schmitt', '54, rue Royale', 'Nantes', '44000', 'France'),

(27, 'Franchi S.p.A.', 'Paolo Accorti', 'Via Monte Bianco 34', 'Torino', '10100', 'Italy'),

(28, 'Furia Bacalhau e Frutos do Mar', 'Lino Rodriguez', 'Jardim das rosas n. 32', 'Lisboa', '1675', 'Portugal'),

(29, 'Galería del gastrónomo', 'Eduardo Saavedra', 'Rambla de Cataluña, 23', 'Barcelona', '08022', 'Spain'),

(30, 'Godos Cocina Típica', 'José Pedro Freyre', 'C/ Romero, 33', 'Sevilla', '41101', 'Spain'),

(31, 'Gourmet Lanchonetes', 'André Fonseca', 'Av. Brasil, 442', 'Campinas', '04876-786', 'Brazil'),

(32, 'Great Lakes Food Market', 'Howard Snyder', '2732 Baker Blvd.', 'Eugene', '97403', 'USA'),

(33, 'GROSELLARestaurante', 'Manuel Pereira', '5ª Ave. Los Palos Grandes', 'Caracas', '1081', 'Venezuela'),

(34, 'Hanari Carnes', 'Mario Pontes', 'Rua do Paço, 67', 'Rio de Janeiro', '05454-876', 'Brazil'),

(35, 'HILARIÓN-Abastos', 'Carlos Hernández', 'Carrera 22 con Ave. Carlos Soublette #8-35', 'San Cristóbal', '5022', 'Venezuela'),

(36, 'Hungry Coyote Import Store', 'Yoshi Latimer', 'City Center Plaza 516 Main St.', 'Elgin', '97827', 'USA'),

(37, 'Hungry Owl All-Night Grocers', 'Patricia McKenna', '8 Johnstown Road', 'Cork', '', 'Ireland'),

(38, 'Island Trading', 'Helen Bennett', 'Garden House Crowther Way', 'Cowes', 'PO31 7PJ', 'UK'),

(39, 'Königlich Essen', 'Philip Cramer', 'Maubelstr. 90', 'Brandenburg', '14776', 'Germany'),

(40, 'La corne dabondance', 'Daniel Tonini', '67, avenue de lEurope', 'Versailles', '78000', 'France'),

(41, 'La maison dAsie', 'Annette Roulet', '1 rue Alsace-Lorraine', 'Toulouse', '31000', 'France'),

(42, 'Laughing Bacchus Wine Cellars', 'Yoshi Tannamuri', '1900 Oak St.', 'Vancouver', 'V3F 2K1', 'Canada'),

(43, 'Lazy K Kountry Store', 'John Steel', '12 Orchestra Terrace', 'Walla Walla', '99362', 'USA'),

(44, 'Lehmanns Marktstand', 'Renate Messner', 'Magazinweg 7', 'Frankfurt a.M.', '60528', 'Germany'),

(45, 'Lets Stop N Shop', 'Jaime Yorres', '87 Polk St. Suite 5', 'San Francisco', '94117', 'USA'),

(46, 'LILASupermercado', 'Carlos González', 'Carrera 52 con Ave. Bolívar #65-98 Llano Largo', 'Barquisimeto', '3508', 'Venezuela'),

(47, 'LINO-Delicateses', 'Felipe Izquierdo', 'Ave. 5 de Mayo Porlamar', 'I. de Margarita', '4980', 'Venezuela'),

(48, 'Lonesome Pine Restaurant', 'Fran Wilson', '89 Chiaroscuro Rd.', 'Portland', '97219', 'USA'),

(49, 'Magazzini Alimentari Riuniti', 'Giovanni Rovelli', 'Via Ludovico il Moro 22', 'Bergamo', '24100', 'Italy'),

(50, 'Maison Dewey', 'Catherine Dewey', 'Rue Joseph-Bens 532', 'Bruxelles', 'B-1180', 'Belgium'),

(51, 'Mère Paillarde', 'Jean Fresnière', '43 rue St. Laurent', 'Montréal', 'H1J 1C3', 'Canada'),

(52, 'Morgenstern Gesundkost', 'Alexander Feuer', 'Heerstr. 22', 'Leipzig', '04179', 'Germany'),

(53, 'NorthSouth', 'Simon Crowther', 'South House 300 Queensbridge', 'London', 'SW7 1RZ', 'UK'),

(54, 'Océano Atlántico Ltda.', 'Yvonne Moncada', 'Ing. Gustavo Moncada 8585 Piso 20-A', 'Buenos Aires', '1010', 'Argentina'),

(55, 'Old World Delicatessen', 'Rene Phillips', '2743 Bering St.', 'Anchorage', '99508', 'USA'),

(56, 'Ottilies Käseladen', 'Henriette Pfalzheim', 'Mehrheimerstr. 369', 'Köln', '50739', 'Germany'),

(57, 'Paris spécialités', 'Marie Bertrand', '265, boulevard Charonne', 'Paris', '75012', 'France'),

(58, 'Pericles Comidas clásicas', 'Guillermo Fernández', 'Calle Dr. Jorge Cash 321', 'México D.F.', '05033', 'Mexico'),

(59, 'Piccolo und mehr', 'Georg Pipps', 'Geislweg 14', 'Salzburg', '5020', 'Austria'),

(60, 'Princesa Isabel Vinhoss', 'Isabel de Castro', 'Estrada da saúde n. 58', 'Lisboa', '1756', 'Portugal'),

(61, 'Que Delícia', 'Bernardo Batista', 'Rua da Panificadora, 12', 'Rio de Janeiro', '02389-673', 'Brazil'),

(62, 'Queen Cozinha', 'Lúcia Carvalho', 'Alameda dos Canàrios, 891', 'São Paulo', '05487-020', 'Brazil'),

(63, 'QUICKStop', 'Horst Kloss', 'Taucherstraße 10', 'Cunewalde', '01307', 'Germany'),

(64, 'Rancho grande', 'Sergio Gutiérrez', 'Av. del Libertador 900', 'Buenos Aires', '1010', 'Argentina'),

(65, 'Rattlesnake Canyon Grocery', 'Paula Wilson', '2817 Milton Dr.', 'Albuquerque', '87110', 'USA'),

(66, 'Reggiani Caseifici', 'Maurizio Moroni', 'Strada Provinciale 124', 'Reggio Emilia', '42100', 'Italy'),

(67, 'Ricardo Adocicados', 'Janete Limeira', 'Av. Copacabana, 267', 'Rio de Janeiro', '02389-890', 'Brazil'),

(68, 'Richter Supermarkt', 'Michael Holz', 'Grenzacherweg 237', 'Genève', '1203', 'Switzerland'),

(69, 'Romero y tomillo', 'Alejandra Camino', 'Gran Vía, 1', 'Madrid', '28001', 'Spain'),

(70, 'Santé Gourmet', 'Jonas Bergulfsen', 'Erling Skakkes gate 78', 'Stavern', '4110', 'Norway'),

(71, 'Savealot Markets', 'Jose Pavarotti', '187 Suffolk Ln.', 'Boise', '83720', 'USA'),

(72, 'Seven Seas Imports', 'Hari Kumar', '90 Wadhurst Rd.', 'London', 'OX15 4NB', 'UK'),

(73, 'Simons bistro', 'Jytte Petersen', 'Vinbæltet 34', 'København', '1734', 'Denmark'),

(74, 'Spécialités du monde', 'Dominique Perrier', '25, rue Lauriston', 'Paris', '75016', 'France'),

(75, 'Split Rail Beer & Ale', 'Art Braunschweiger', 'P.O. Box 555', 'Lander', '82520', 'USA'),

(76, 'Suprêmes délices', 'Pascale Cartrain', 'Boulevard Tirou, 255', 'Charleroi', 'B-6000', 'Belgium'),

(77, 'The Big Cheese', 'Liz Nixon', '89 Jefferson Way Suite 2', 'Portland', '97201', 'USA'),

(78, 'The Cracker Box', 'Liu Wong', '55 Grizzly Peak Rd.', 'Butte', '59801', 'USA'),

(79, 'Toms Spezialitäten', 'Karin Josephs', 'Luisenstr. 48', 'Münster', '44087', 'Germany'),

(80, 'Tortuga Restaurante', 'Miguel Angel Paolino', 'Avda. Azteca 123', 'México D.F.', '05033', 'Mexico'),

(81, 'Tradição Hipermercados', 'Anabela Domingues', 'Av. Inês de Castro, 414', 'São Paulo', '05634-030', 'Brazil'),

(82, 'Trails Head Gourmet Provisioners', 'Helvetius Nagy', '722 DaVinci Blvd.', 'Kirkland', '98034', 'USA'),

(83, 'Vaffeljernet', 'Palle Ibsen', 'Smagsløget 45', 'Århus', '8200', 'Denmark'),

(84, 'Victuailles en stock', 'Mary Saveley', '2, rue du Commerce', 'Lyon', '69004', 'France'),

(85, 'Vins et alcools Chevalier', 'Paul Henriot', '59 rue de lAbbaye', 'Reims', '51100', 'France'),

(86, 'Die Wandernde Kuh', 'Rita Müller', 'Adenauerallee 900', 'Stuttgart', '70563', 'Germany'),

(87, 'Wartian Herkku', 'Pirkko Koskitalo', 'Torikatu 38', 'Oulu', '90110', 'Finland'),

(88, 'Wellington Importadora', 'Paula Parente', 'Rua do Mercado, 12', 'Resende', '08737-363', 'Brazil'),

(89, 'White Clover Markets', 'Karl Jablonski', '305 - 14th Ave. S. Suite 3B', 'Seattle', '98128', 'USA'),

(90, 'Wilman Kala', 'Matti Karttunen', 'Keskuskatu 45', 'Helsinki', '21240', 'Finland'),

(91, 'Wolski', 'Zbyszek', 'ul. Filtrowa 68', 'Walla', '01-012', 'Poland')

**Untuk menampilkan table**

SELECT\*FROM customers;

**TABEL PRODUCT**

CREATE TABLE PRODUCT

(

ProductID INT PRIMARY KEY,

ProductName VARCHAR(100),

SupplierID INT,

CategoryID INT,

Unit VARCHAR(50),

Price DECIMAL(10, 2)

);

INSERT INTO PRODUCT (ProductID, ProductName, SupplierID, CategoryID, Unit, Price)

VALUES

(1, 'Chais', 1, 1, '10 boxes x 20 bags', 18),

(2, 'Chang', 1, 1, '24 - 12 oz bottles', 19),

(3, 'Aniseed Syrup', 1, 2, '12 - 550 ml bottles', 10),

(4, 'Chef Anton''s Cajun Seasoning', 2, 2, '48 - 6 oz jars', 22),

(5, 'Chef Anton''s Gumbo Mix', 2, 2, '36 boxes', 21.35),

(6, 'Grandma''s Boysenberry Spread', 3, 2, '12 - 8 oz jars', 25),

(7, 'Uncle Bob''s Organic Dried Pears', 3, 7, '12 - 1 lb pkgs.', 30),

(8, 'Northwoods Cranberry Sauce', 3, 2, '12 - 12 oz jars', 40),

(9, 'Mishi Kobe Niku', 4, 6, '18 - 500 g pkgs.', 97),

(10, 'Ikura', 4, 8, '12 - 200 ml jars', 31),

(11, 'Queso Cabrales', 5, 4, '1 kg pkg.', 21),

(12, 'Queso Manchego La Pastora', 5, 4, '10 - 500 g pkgs.', 38),

(13, 'Konbu', 6, 8, '2 kg box', 6),

(14, 'Tofu', 6, 7, '40 - 100 g pkgs.', 23.25),

(15, 'Genen Shouyu', 6, 2, '24 - 250 ml bottles', 15.5),

(16, 'Pavlova', 7, 3, '32 - 500 g boxes', 17.45),

(17, 'Alice Mutton', 7, 6, '20 - 1 kg tins', 39),

(18, 'Carnarvon Tigers', 7, 8, '16 kg pkg.', 62.5),

(19, 'Teatime Chocolate Biscuits', 8, 3, '10 boxes x 12 pieces', 9.2),

(20, 'Sir Rodney''s Marmalade', 8, 3, '30 gift boxes', 81),

(21, 'Sir Rodney''s Scones', 8, 3, '24 pkgs. x 4 pieces', 10),

(22, 'Gustaf''s Knäckebröd', 9, 5, '24 - 500 g pkgs.', 21),

(23, 'Tunnbröd', 9, 5, '12 - 250 g pkgs.', 9),

(24, 'Guaraná Fantástica', 10, 1, '12 - 355 ml cans', 4.5),

(25, 'NuNuCa Nuß-Nougat-Creme', 11, 3, '20 - 450 g glasses', 14),

(26, 'Gumbär Gummibärchen', 11, 3, '100 - 250 g bags', 31.23),

(27, 'Schoggi Schokolade', 11, 3, '100 - 100 g pieces', 43.9),

(28, 'Rössle Sauerkraut', 12, 7, '25 - 825 g cans', 45.6),

(29, 'Thüringer Rostbratwurst', 12, 6, '50 bags x 30 sausgs.', 123.79),

(30, 'Nord-Ost Matjeshering', 13, 8, '10 - 200 g glasses', 25.89),

(31, 'Gorgonzola Telino', 14, 4, '12 - 100 g pkgs', 12.5),

(32, 'Mascarpone Fabioli', 14, 4, '24 - 200 g pkgs.', 32),

(33, 'Geitost', 15, 4, '500 g', 2.5),

(34, 'Sasquatch Ale', 16, 1, '24 - 12 oz bottles', 14),

(35, 'Steeleye Stout', 16, 1, '24 - 12 oz bottles', 18),

(36, 'Inlagd Sill', 17, 8, '24 - 250 g jars', 19),

(37, 'Gravad lax', 17, 8, '12 - 500 g pkgs.', 26),

(38, 'Côte de Blaye', 18, 1, '12 - 75 cl bottles', 263.5),

(39, 'Chartreuse verte', 18, 1, '750 cc per bottle', 18),

(40, 'Boston Crab Meat', 19, 8, '24 - 4 oz tins', 18.4),

(41, 'Jack''s New England Clam Chowder', 19, 8, '12 - 12 oz cans', 9.65),

(42, 'Singaporean Hokkien Fried Mee', 20, 5, '32 - 1 kg pkgs.', 14),

(43, 'Ipoh Coffee', 20, 1, '16 - 500 g tins', 46),

(44, 'Gula Malacca', 20, 2, '20 - 2 kg bags', 19.45),

(45, 'Røgede sild', 21, 8, '1k pkg.', 9.5),

(46, 'Spegesild', 21, 8, '4 - 450 g glasses', 12),

(47, 'Zaanse koeken', 22, 3, '10 - 4 oz boxes', 9.5),

(48, 'Chocolade', 22, 3, '10 pkgs.', 12.75),

(49, 'Maxilaku', 23, 3, '24 - 50 g pkgs.', 20),

(50, 'Valkoinen suklaa', 23, 3, '12 - 100 g bars', 16.25),

(51, 'Manjimup Dried Apples', 24, 7, '50 - 300 g pkgs.', 53),

(52, 'Filo Mix', 24, 5, '16 - 2 kg boxes', 7),

(53, 'Perth Pasties', 24, 6, '48 pieces', 32.8),

(54, 'Tourtière', 25, 6, '16 pies', 7.45),

(55, 'Pâté chinois', 25, 6, '24 boxes x 2 pies', 24),

(56, 'Gnocchi di nonna Alice', 26, 5, '24 - 250 g pkgs.', 38),

(57, 'Ravioli Angelo', 26, 5, '24 - 250 g pkgs.', 19.5),

(58, 'Escargots de Bourgogne', 27, 8, '24 pieces', 13.25),

(59, 'Raclette Courdavault', 28, 4, '5 kg pkg.', 55),

(60, 'Camembert Pierrot', 28, 4, '15 - 300 g rounds', 34),

(61, 'Sirop d''érable', 29, 2, '24 - 500 ml bottles', 28.5),

(62, 'Tarte au sucre', 29, 3, '48 pies', 49.3),

(63, 'Vegie-spread', 7, 2, '15 - 625 g jars', 43.9),

(64, 'Wimmers gute Semmelknödel', 12, 5, '20 bags x 4 pieces', 33.25),

(65, 'Louisiana Fiery Hot Pepper Sauce', 2, 2, '32 - 8 oz bottles', 21.05),

(66, 'Louisiana Hot Spiced Okra', 2, 2, '24 - 8 oz jars', 17),

(67, 'Laughing Lumberjack Lager', 16, 1, '24 - 12 oz bottles', 14),

(68, 'Scottish Longbreads', 8, 3, '10 boxes x 8 pieces', 12.5),

(69, 'Gudbrandsdalsost', 15, 4, '10 kg pkg.', 36),

(70, 'Outback Lager', 7, 1, '24 - 355 ml bottles', 15),

(71, 'Fløtemysost', 15, 4, '10 - 500 g pkgs.', 21.5),

(72, 'Mozzarella di Giovanni', 14, 4, '24 - 200 g pkgs.', 34.8),

(73, 'Röd Kaviar', 17, 8, '12 boxes', 13);

**Untuk menampilkan table**

SELECT\*FROM PRODUCT;

**MINDMAP PERINTAH SQL**

**Basis Data - SQL**

Syntax / Perintah

WHERE

menyaring data

Operator =

SELECT \* FROM Customers WHERE Country = 'Mexico';

Operator > < >= <= <> BETWEEN LIKE IN

SELECT \* FROM Customers WHERE City IN ('Paris','London');

SELECT \* FROM Products WHERE Price >= 30;

SELECT \* FROM Products WHERE Price BETWEEN 50 AND 60;

SELECT \* FROM Customers WHERE City LIKE 's%';

AND, OR, NOT

SELECT \* FROM Customers WHERE Country = 'Germany' AND City = 'Berlin';

SELECT \* FROM Customers WHERE Country = 'Germany' OR Country = 'Spain';

SELECT \* FROM Customers WHERE NOT Country = 'Germany';

IS NULL

SELECT CustomerName, ContactName, Address FROM Customers WHERE Address IS NULL;

MIN, MAX

SELECT MIN(Price) AS SmallestPrice FROM Products;

SELECT MAX(Price) AS LargestPrice FROM Products;

UNION

SELECT City FROM Customers UNION SELECT City FROM Suppliers ORDER BY City;

ANY, ALL

SELECT ProductName FROM Products WHERE ProductID = ANY (SELECT ProductID FROM OrderDetails WHERE Quantity = 10);

SELECT ALL ProductName FROM Products WHERE TRUE;

SOME

SELECT \* FROM Products WHERE Price > SOME (SELECT Price FROM Products WHERE Price > 20);

EXISTS

SELECT \* FROM Products WHERE EXISTS (SELECT Price FROM Products WHERE Price > 50);

ROWID

Rowid tertentu, kolom yang otomatis digenerate saat create table, untuk RDBMS MySQL, Oracle, SQLiteStudio

SELECT \*, rowid FROM Employee WHERE rowid = 2;

ORDER BY

mengurutkan data

ASC

To sort the table alphabetically

SELECT \* FROM Products ORDER BY Price ASC;

DESC

To sort the table reverse alphabetically

SELECT \* FROM Products ORDER BY ProductName DESC;

Using Both ASC and DESC

SELECT \* FROM Customers ORDER BY Country ASC, CustomerName DESC;

LIMIT

membatasi jumlah data yang ditamplkan

SELECT id\_pesanan, tanggal\_pesan FROM pesanan LIMIT 10;

GROUP BY

COUNT, SUM, AVG

fungsi agregat untuk melakukan perhitungan pada data yang dikelompokkan.

SELECT kota, COUNT(\*) AS jumlah\_pelanggan FROM pelanggan GROUP BY kota;

SELECT kolom\_1, kolom\_2, ... FROM nama\_tabel;

SELECT CustomerName, City, Country FROM Customers;

ALIAS

SELECT CustomerName AS Customer, ContactName AS "Contact Person" FROM Customers;

SELECT CustomerID AS ID, CustomerName AS Customer FROM Customers;

FROM lebih dari 1 tabel (tabel relasi)

JOIN

SELECT Orders.OrderID, Customers.CustomerName, Orders.OrderDate FROM Orders INNER JOIN Customers ON Orders.CustomerID=Customers.CustomerID;

SELECT O.OrderID, C.CustomerName, O.OrderDate FROM Orders O INNER JOIN Customers C ON O.CustomerID=C.CustomerID;

Self JOIN

SELECT A.CustomerName AS CustomerName1, B.CustomerName AS CustomerName2, A.City FROM Customers A, Customers B WHERE A.CustomerID <> B.CustomerID AND A.City = B.City ORDER BY A.City;

UNION

SELECT 1 AS table1 UNION SELECT 2 AS table1

DISTINCT

memilih data unik dari tabel

SELECT DISTINCT kota FROM pelanggan;

SELECT COUNT(DISTINCT Country) FROM Customers;

CASE

SELECT OrderID, Quantity, CASE WHEN Quantity > 30 THEN 'The quantity is greater than 30' WHEN Quantity = 30 THEN 'The quantity is 30' ELSE 'The quantity is under 30' END AS QuantityText FROM OrderDetails;

Fundamental SQL

Data Manipulation Language (DML)

SELECT

Memilih dan mengambil data dari tabel basis data

INSERT

INSERT INTO SELECT

INSERT INTO Customers (CustomerName, City, Country) SELECT SupplierName, City, Country FROM Suppliers;

INSERT INTO Customers (CustomerName, City, Country) VALUES ('Cardinal', 'Stavanger', 'Norway');

insert new records in a table.

UPDATE

modify the existing records in a table

UPDATE Customers SET ContactName = 'Alfred Schmidt', City= 'Frankfurt' WHERE CustomerID = 1;

UPDATE Customers SET ContactName='Juan' WHERE Country='Mexico';

DELETE

delete existing records in a table

DELETE FROM Customers WHERE CustomerName='Alfreds Futterkiste';

TOP

the number of records to return

SELECT TOP 50 PERCENT \* FROM Customers;

SELECT TOP 3 \* FROM Customers WHERE Country='Germany';

SELECT TOP 3 \* FROM Customers ORDER BY CustomerName DESC;

Data Definition Language (DDL)

CREATE

ALTER

DROP

Data Control Language (DCL)

GRANT

REVOKE

Transaction Control Language (TCL)

BEGIN/END TRANSACTION

SAVEPOINT

COMMIT

ROLLBACK