-- Either:  
-- Open MySQL Workbench.  
-- Connect to your MySQL server.  
-- Create a new database named Northwind.db.  
-- Copy and paste the SQL below into the query window.  
-- Execute the script to create the Northwind database.  
-- Or:  
-- Run the following command in a terminal window.  
-- mysql  
-- Copy and paste the SQL below into the terminal window to create the Northwind  
database.  
CREATE DATABASE IF NOT EXISTS Northwind;  
USE Northwind;  
DROP TABLE IF EXISTS OrderDetails;  
DROP TABLE IF EXISTS Orders;  
DROP TABLE IF EXISTS Products;  
DROP TABLE IF EXISTS Categories;  
DROP TABLE IF EXISTS Customers;  
DROP TABLE IF EXISTS Employees;  
DROP TABLE IF EXISTS Shippers;  
DROP TABLE IF EXISTS Suppliers;  
START TRANSACTION;  
CREATE TABLE Categories  
(  
CategoryID INTEGER PRIMARY KEY AUTO\_INCREMENT,  
CategoryName VARCHAR(25),  
Description VARCHAR(255)  
);  
CREATE TABLE Customers  
(  
CustomerID INTEGER PRIMARY KEY AUTO\_INCREMENT,  
CustomerName VARCHAR(50),  
ContactName VARCHAR(50),  
Address VARCHAR(50),  
City VARCHAR(20),  
PostalCode VARCHAR(10),  
Country VARCHAR(15)  
);  
CREATE TABLE Employees  
(  
EmployeeID INTEGER PRIMARY KEY AUTO\_INCREMENT,  
LastName VARCHAR(15),  
FirstName VARCHAR(15),

BirthDate DATETIME,  
Photo VARCHAR(25),  
Notes VARCHAR(1024)  
);  
CREATE TABLE Shippers(  
ShipperID INTEGER PRIMARY KEY AUTO\_INCREMENT,  
ShipperName VARCHAR(25),  
Phone VARCHAR(15)  
);  
CREATE TABLE Suppliers(  
SupplierID INTEGER PRIMARY KEY AUTO\_INCREMENT,  
SupplierName VARCHAR(50),  
ContactName VARCHAR(50),  
Address VARCHAR(50),  
City VARCHAR(20),  
PostalCode VARCHAR(10),  
Country VARCHAR(15),  
Phone VARCHAR(15)  
);  
CREATE TABLE Products(  
ProductID INTEGER PRIMARY KEY AUTO\_INCREMENT,  
ProductName VARCHAR(50),  
SupplierID INTEGER,  
CategoryID INTEGER,  
Unit VARCHAR(25),  
Price NUMERIC,  
FOREIGN KEY (CategoryID) REFERENCES Categories (CategoryID),  
FOREIGN KEY (SupplierID) REFERENCES Suppliers (SupplierID)  
);  
CREATE TABLE Orders(  
OrderID INTEGER PRIMARY KEY AUTO\_INCREMENT,  
CustomerID INTEGER,  
EmployeeID INTEGER,  
OrderDate DATETIME,  
ShipperID INTEGER,  
FOREIGN KEY (EmployeeID) REFERENCES Employees (EmployeeID),  
FOREIGN KEY (CustomerID) REFERENCES Customers (CustomerID),  
FOREIGN KEY (ShipperID) REFERENCES Shippers (ShipperID)  
);  
CREATE TABLE OrderDetails(  
OrderDetailID INTEGER PRIMARY KEY AUTO\_INCREMENT,  
OrderID INTEGER,  
ProductID INTEGER,  
Quantity INTEGER,

FOREIGN KEY (OrderID) REFERENCES Orders (OrderID),  
FOREIGN KEY (ProductID) REFERENCES Products (ProductID)  
);  
INSERT INTO Categories VALUES(1,'Beverages','Soft drinks, coffees, teas, beers, and  
ales');  
INSERT INTO Categories VALUES(2,'Condiments','Sweet and savory sauces, relishes,  
spreads, and seasonings');  
INSERT INTO Categories VALUES(3,'Confections','Desserts, candies, and sweet breads');  
INSERT INTO Categories VALUES(4,'Dairy Products','Cheeses');  
INSERT INTO Categories VALUES(5,'Grains/Cereals','Breads, crackers, pasta, and cereal');  
INSERT INTO Categories VALUES(6,'Meat/Poultry','Prepared meats');  
INSERT INTO Categories VALUES(7,'Produce','Dried fruit and bean curd');  
INSERT INTO Categories VALUES(8,'Seafood','Seaweed and fish');  
INSERT INTO Customers VALUES(1,'Alfreds Futterkiste','Maria Anders','Obere Str.  
57','Berlin','12209','Germany');  
INSERT INTO Customers VALUES(2,'Ana Trujillo Emparedados y helados','Ana  
Trujillo','Avda. de la Constitución 2222','México D.F.','5021','Mexico');  
INSERT INTO Customers VALUES(3,'Antonio Moreno Taquería','Antonio  
Moreno','Mataderos 2312','México D.F.','5023','Mexico');  
INSERT INTO Customers VALUES(4,'Around the Horn','Thomas Hardy','120 Hanover  
Sq.','London','WA1 1DP','UK');  
INSERT INTO Customers VALUES(5,'Berglunds snabbköp','Christina  
Berglund','Berguvsvägen 8','Luleå','S-958 22','Sweden');  
INSERT INTO Customers VALUES(6,'Blauer See Delikatessen','Hanna Moos','Forsterstr.  
57','Mannheim','68306','Germany');  
INSERT INTO Customers VALUES(7,'Blondel père et fils','Frédérique Citeaux','24, place  
Kléber','Strasbourg','67000','France');  
INSERT INTO Customers VALUES(8,'Bólido Comidas preparadas','Martín Sommer','C/  
Araquil, 67','Madrid','28023','Spain');  
INSERT INTO Customers VALUES(9,'Bon app''''','Laurence Lebihans','12, rue des  
Bouchers','Marseille','13008','France');  
INSERT INTO Customers VALUES(10,'Bottom-Dollar Marketse','Elizabeth Lincoln','23  
Tsawassen Blvd.','Tsawassen','T2F 8M4','Canada');  
INSERT INTO Customers VALUES(11,'B''''s Beverages','Victoria Ashworth','Fauntleroy  
Circus','London','EC2 5NT','UK');  
INSERT INTO Customers VALUES(12,'Cactus Comidas para llevar','Patricio  
Simpson','Cerrito 333','Buenos Aires','1010','Argentina');  
INSERT INTO Customers VALUES(13,'Centro comercial Moctezuma','Francisco  
Chang','Sierras de Granada 9993','México D.F.','5022','Mexico');  
INSERT INTO Customers VALUES(14,'Chop-suey Chinese','Yang Wang','Hauptstr.  
29','Bern','3012','Switzerland');  
INSERT INTO Customers VALUES(15,'Comércio Mineiro','Pedro Afonso','Av. dos Lusíadas,  
23','São Paulo','05432-043','Brazil');  
INSERT INTO Customers VALUES(16,'Consolidated Holdings','Elizabeth Brown','Berkeley  
Gardens 12 Brewery','London','WX1 6LT','UK');  
INSERT INTO Customers VALUES(17,'Drachenblut Delikatessend','Sven  
Ottlieb','Walserweg 21','Aachen','52066','Germany');

INSERT INTO Customers VALUES(18,'Du monde entier','Janine Labrune','67, rue des  
Cinquante Otages','Nantes','44000','France');  
INSERT INTO Customers VALUES(19,'Eastern Connection','Ann Devon','35 King  
George','London','WX3 6FW','UK');  
INSERT INTO Customers VALUES(20,'Ernst Handel','Roland Mendel','Kirchgasse  
6','Graz','8010','Austria');  
INSERT INTO Customers VALUES(21,'Familia Arquibaldo','Aria Cruz','Rua Orós, 92','São  
Paulo','05442-030','Brazil');  
INSERT INTO Customers VALUES(22,'FISSA Fabrica Inter. Salchichas S.A.','Diego  
Roel','C/ Moralzarzal, 86','Madrid','28034','Spain');  
INSERT INTO Customers VALUES(23,'Folies gourmandes','Martine Rancé','184, chaussée  
de Tournai','Lille','59000','France');  
INSERT INTO Customers VALUES(24,'Folk och fä HB','Maria Larsson','Åkergatan  
24','Bräcke','S-844 67','Sweden');  
INSERT INTO Customers VALUES(25,'Frankenversand','Peter Franken','Berliner Platz  
43','München','80805','Germany');  
INSERT INTO Customers VALUES(26,'France restauration','Carine Schmitt','54, rue  
Royale','Nantes','44000','France');  
INSERT INTO Customers VALUES(27,'Franchi S.p.A.','Paolo Accorti','Via Monte Bianco  
34','Torino','10100','Italy');  
INSERT INTO Customers VALUES(28,'Furia Bacalhau e Frutos do Mar','Lino  
Rodriguez','Jardim das rosas n. 32','Lisboa','1675','Portugal');  
INSERT INTO Customers VALUES(29,'Galería del gastrónomo','Eduardo  
Saavedra','Rambla de Cataluña, 23','Barcelona','8022','Spain');  
INSERT INTO Customers VALUES(30,'Godos Cocina Típica','José Pedro Freyre','C/  
Romero, 33','Sevilla','41101','Spain');  
INSERT INTO Customers VALUES(31,'Gourmet Lanchonetes','André Fonseca','Av. Brasil,  
442','Campinas','04876-786','Brazil');  
INSERT INTO Customers VALUES(32,'Great Lakes Food Market','Howard Snyder','2732  
Baker Blvd.','Eugene','97403','USA');  
INSERT INTO Customers VALUES(33,'GROSELLA-Restaurante','Manuel Pereira','5ª Ave.  
Los Palos Grandes','Caracas','1081','Venezuela');  
INSERT INTO Customers VALUES(34,'Hanari Carnes','Mario Pontes','Rua do Paço, 67','Rio  
de Janeiro','05454-876','Brazil');  
INSERT INTO Customers VALUES(35,'HILARIÓN-Abastos','Carlos Hernández','Carrera 22  
con Ave. Carlos Soublette #8-35','San Cristóbal','5022','Venezuela');  
INSERT INTO Customers VALUES(36,'Hungry Coyote Import Store','Yoshi Latimer','City  
Center Plaza 516 Main St.','Elgin','97827','USA');  
INSERT INTO Customers VALUES(37,'Hungry Owl All-Night Grocers','Patricia McKenna','8  
Johnstown Road','Cork','','Ireland');  
INSERT INTO Customers VALUES(38,'Island Trading','Helen Bennett','Garden House  
Crowther Way','Cowes','PO31 7PJ','UK');  
INSERT INTO Customers VALUES(39,'Königlich Essen','Philip Cramer','Maubelstr.  
90','Brandenburg','14776','Germany');  
INSERT INTO Customers VALUES(40,'La corne d''''abondance','Daniel Tonini','67, avenue  
de l''''Europe','Versailles','78000','France');  
INSERT INTO Customers VALUES(41,'La maison d''''Asie','Annette Roulet','1 rue Alsace-  
Lorraine','Toulouse','31000','France');

INSERT INTO Customers VALUES(42,'Laughing Bacchus Wine Cellars','Yoshi  
Tannamuri','1900 Oak St.','Vancouver','V3F 2K1','Canada');  
INSERT INTO Customers VALUES(43,'Lazy K Kountry Store','John Steel','12 Orchestra  
Terrace','Walla Walla','99362','USA');  
INSERT INTO Customers VALUES(44,'Lehmanns Marktstand','Renate  
Messner','Magazinweg 7','Frankfurt a.M.','60528','Germany');  
INSERT INTO Customers VALUES(45,'Let''''s Stop N Shop','Jaime Yorres','87 Polk St. Suite  
5','San Francisco','94117','USA');  
INSERT INTO Customers VALUES(46,'LILA-Supermercado','Carlos González','Carrera 52  
con Ave. Bolívar #65-98 Llano Largo','Barquisimeto','3508','Venezuela');  
INSERT INTO Customers VALUES(47,'LINO-Delicateses','Felipe Izquierdo','Ave. 5 de Mayo  
Porlamar','I. de Margarita','4980','Venezuela');  
INSERT INTO Customers VALUES(48,'Lonesome Pine Restaurant','Fran Wilson','89  
Chiaroscuro Rd.','Portland','97219','USA');  
INSERT INTO Customers VALUES(49,'Magazzini Alimentari Riuniti','Giovanni Rovelli','Via  
Ludovico il Moro 22','Bergamo','24100','Italy');  
INSERT INTO Customers VALUES(50,'Maison Dewey','Catherine Dewey','Rue Joseph-  
Bens 532','Bruxelles','B-1180','Belgium');  
INSERT INTO Customers VALUES(51,'Mère Paillarde','Jean Fresnière','43 rue St.  
Laurent','Montréal','H1J 1C3','Canada');  
INSERT INTO Customers VALUES(52,'Morgenstern Gesundkost','Alexander  
Feuer','Heerstr. 22','Leipzig','4179','Germany');  
INSERT INTO Customers VALUES(53,'North/South','Simon Crowther','South House 300  
Queensbridge','London','SW7 1RZ','UK');  
INSERT INTO Customers VALUES(54,'Océano Atlántico Ltda.','Yvonne Moncada','Ing.  
Gustavo Moncada 8585 Piso 20-A','Buenos Aires','1010','Argentina');  
INSERT INTO Customers VALUES(55,'Old World Delicatessen','Rene Phillips','2743 Bering  
St.','Anchorage','99508','USA');  
INSERT INTO Customers VALUES(56,'Ottilies Käseladen','Henriette  
Pfalzheim','Mehrheimerstr. 369','Köln','50739','Germany');  
INSERT INTO Customers VALUES(57,'Paris spécialités','Marie Bertrand','265, boulevard  
Charonne','Paris','75012','France');  
INSERT INTO Customers VALUES(58,'Pericles Comidas clásicas','Guillermo  
Fernández','Calle Dr. Jorge Cash 321','México D.F.','5033','Mexico');  
INSERT INTO Customers VALUES(59,'Piccolo und mehr','Georg Pipps','Geislweg  
14','Salzburg','5020','Austria');  
INSERT INTO Customers VALUES(60,'Princesa Isabel Vinhoss','Isabel de Castro','Estrada  
da saúde n. 58','Lisboa','1756','Portugal');  
INSERT INTO Customers VALUES(61,'Que Delícia','Bernardo Batista','Rua da Panificadora,  
12','Rio de Janeiro','02389-673','Brazil');  
INSERT INTO Customers VALUES(62,'Queen Cozinha','Lúcia Carvalho','Alameda dos  
Canàrios, 891','São Paulo','05487-020','Brazil');  
INSERT INTO Customers VALUES(63,'QUICK-Stop','Horst Kloss','Taucherstraße  
10','Cunewalde','1307','Germany');  
INSERT INTO Customers VALUES(64,'Rancho grande','Sergio Gutiérrez','Av. del Libertador  
900','Buenos Aires','1010','Argentina');  
INSERT INTO Customers VALUES(65,'Rattlesnake Canyon Grocery','Paula Wilson','2817  
Milton Dr.','Albuquerque','87110','USA');

INSERT INTO Customers VALUES(66,'Reggiani Caseifici','Maurizio Moroni','Strada  
Provinciale 124','Reggio Emilia','42100','Italy');  
INSERT INTO Customers VALUES(67,'Ricardo Adocicados','Janete Limeira','Av.  
Copacabana, 267','Rio de Janeiro','02389-890','Brazil');  
INSERT INTO Customers VALUES(68,'Richter Supermarkt','Michael Holz','Grenzacherweg  
237','Genève','1203','Switzerland');  
INSERT INTO Customers VALUES(69,'Romero y tomillo','Alejandra Camino','Gran Vía,  
1','Madrid','28001','Spain');  
INSERT INTO Customers VALUES(70,'Santé Gourmet','Jonas Bergulfsen','Erling Skakkes  
gate 78','Stavern','4110','Norway');  
INSERT INTO Customers VALUES(71,'Save-a-lot Markets','Jose Pavarotti','187 Suffolk  
Ln.','Boise','83720','USA');  
INSERT INTO Customers VALUES(72,'Seven Seas Imports','Hari Kumar','90 Wadhurst  
Rd.','London','OX15 4NB','UK');  
INSERT INTO Customers VALUES(73,'Simons bistro','Jytte Petersen','Vinbæltet  
34','København','1734','Denmark');  
INSERT INTO Customers VALUES(74,'Spécialités du monde','Dominique Perrier','25, rue  
Lauriston','Paris','75016','France');  
INSERT INTO Customers VALUES(75,'Split Rail Beer & Ale','Art Braunschweiger','P.O. Box  
555','Lander','82520','USA');  
INSERT INTO Customers VALUES(76,'Suprêmes délices','Pascale Cartrain','Boulevard  
Tirou, 255','Charleroi','B-6000','Belgium');  
INSERT INTO Customers VALUES(77,'The Big Cheese','Liz Nixon','89 Jefferson Way Suite  
2','Portland','97201','USA');  
INSERT INTO Customers VALUES(78,'The Cracker Box','Liu Wong','55 Grizzly Peak  
Rd.','Butte','59801','USA');  
INSERT INTO Customers VALUES(79,'Toms Spezialitäten','Karin Josephs','Luisenstr.  
48','Münster','44087','Germany');  
INSERT INTO Customers VALUES(80,'Tortuga Restaurante','Miguel Angel Paolino','Avda.  
Azteca 123','México D.F.','5033','Mexico');  
INSERT INTO Customers VALUES(81,'Tradição Hipermercados','Anabela Domingues','Av.  
Inês de Castro, 414','São Paulo','05634-030','Brazil');  
INSERT INTO Customers VALUES(82,'Trail''''s Head Gourmet Provisioners','Helvetius  
Nagy','722 DaVinci Blvd.','Kirkland','98034','USA');  
INSERT INTO Customers VALUES(83,'Vaffeljernet','Palle Ibsen','Smagsløget  
45','Århus','8200','Denmark');  
INSERT INTO Customers VALUES(84,'Victuailles en stock','Mary Saveley','2, rue du  
Commerce','Lyon','69004','France');  
INSERT INTO Customers VALUES(85,'Vins et alcools Chevalier','Paul Henriot','59 rue de  
l''''Abbaye','Reims','51100','France');  
INSERT INTO Customers VALUES(86,'Die Wandernde Kuh','Rita Müller','Adenauerallee  
900','Stuttgart','70563','Germany');  
INSERT INTO Customers VALUES(87,'Wartian Herkku','Pirkko Koskitalo','Torikatu  
38','Oulu','90110','Finland');  
INSERT INTO Customers VALUES(88,'Wellington Importadora','Paula Parente','Rua do  
Mercado, 12','Resende','08737-363','Brazil');  
INSERT INTO Customers VALUES(89,'White Clover Markets','Karl Jablonski','305 - 14th  
Ave. S. Suite 3B','Seattle','98128','USA');

INSERT INTO Customers VALUES(90,'Wilman Kala','Matti Karttunen','Keskuskatu  
45','Helsinki','21240','Finland');  
INSERT INTO Customers VALUES(91,'Wolski','Zbyszek','ul. Filtrowa 68','Walla','01-  
012','Poland');  
INSERT INTO Employees VALUES(1,'Davolio','Nancy','1968-12-08','EmpID1.pic','Education  
includes a BA in psychology from Colorado State University. She also completed (The Art of  
the Cold Call). Nancy is a member of ''Toastmasters International''.');  
INSERT INTO Employees VALUES(2,'Fuller','Andrew','1952-02-19','EmpID2.pic','Andrew  
received his BTS commercial and a Ph.D. in international marketing from the University of  
Dallas. He is fluent in French and Italian and reads German. He joined the company as a  
sales representative, was promoted to sales manager and was then named vice president of  
sales. Andrew is a member of the Sales Management Roundtable, the Seattle Chamber of  
Commerce, and the Pacific Rim Importers Association.');  
INSERT INTO Employees VALUES(3,'Leverling','Janet','1963-08-30','EmpID3.pic','Janet has  
a BS degree in chemistry from Boston College). She has also completed a certificate  
program in food retailing management. Janet was hired as a sales associate and was  
promoted to sales representative.');  
INSERT INTO Employees VALUES(4,'Peacock','Margaret','1958-09-  
19','EmpID4.pic','Margaret holds a BA in English literature from Concordia College and an  
MA from the American Institute of Culinary Arts. She was temporarily assigned to the  
London office before returning to her permanent post in Seattle.');  
INSERT INTO Employees VALUES(5,'Buchanan','Steven','1955-03-04','EmpID5.pic','Steven  
Buchanan graduated from St. Andrews University, Scotland, with a BSC degree. Upon  
joining the company as a sales representative, he spent 6 months in an orientation program  
at the Seattle office and then returned to his permanent post in London, where he was  
promoted to sales manager. Mr. Buchanan has completed the courses ''Successful  
Telemarketing'' and ''International Sales Management''. He is fluent in French.');  
INSERT INTO Employees VALUES(6,'Suyama','Michael','1963-07-02','EmpID6.pic','Michael  
is a graduate of Sussex University (MA, economics) and the University of California at Los  
Angeles (MBA, marketing). He has also taken the courses ''Multi-Cultural Selling'' and ''Time  
Management for the Sales Professional''. He is fluent in Japanese and can read and write  
French, Portuguese, and Spanish.');  
INSERT INTO Employees VALUES(7,'King','Robert','1960-05-29','EmpID7.pic','Robert King  
served in the Peace Corps and traveled extensively before completing his degree in English  
at the University of Michigan and then joining the company. After completing a course  
entitled ''Selling in Europe'', he was transferred to the London office.');  
INSERT INTO Employees VALUES(8,'Callahan','Laura','1958-01-09','EmpID8.pic','Laura  
received a BA in psychology from the University of Washington. She has also completed a  
course in business French. She reads and writes French.');  
INSERT INTO Employees VALUES(9,'Dodsworth','Anne','1969-07-02','EmpID9.pic','Anne  
has a BA degree in English from St. Lawrence College. She is fluent in French and  
German.');  
INSERT INTO Employees VALUES(10,'West','Adam','1928-09-19','EmpID10.pic','An old  
chum.');  
INSERT INTO Shippers VALUES(1, 'Speedy Express', '(503) 555-9831');  
INSERT INTO Shippers VALUES(2, 'United Package', '(503) 555-3199');  
INSERT INTO Shippers VALUES(3, 'Federal Shipping', '(503) 555-9931');

INSERT INTO Suppliers VALUES(1,'Exotic Liquid','Charlotte Cooper','49 Gilbert  
St.','Londona','EC1 4SD','UK','(171) 555-2222');  
INSERT INTO Suppliers VALUES(2,'New Orleans Cajun Delights','Shelley Burke','P.O. Box  
78934','New Orleans','70117','USA','(100) 555-4822');  
INSERT INTO Suppliers VALUES(3,'Grandma Kelly''s Homestead','Regina Murphy','707  
Oxford Rd.','Ann Arbor','48104','USA','(313) 555-5735');  
INSERT INTO Suppliers VALUES(4,'Tokyo Traders','Yoshi Nagase','9-8 Sekimai  
Musashino-shi','Tokyo','100','Japan','(03) 3555-5011');  
INSERT INTO Suppliers VALUES(5,'Cooperativa de Quesos ''Las Cabras''','Antonio del  
Valle Saavedra','Calle del Rosal 4','Oviedo','33007','Spain','(98) 598 76 54');  
INSERT INTO Suppliers VALUES(6,'Mayumi''s','Mayumi Ohno','92 Setsuko Chuo-  
ku','Osaka','545','Japan','(06) 431-7877');  
INSERT INTO Suppliers VALUES(7,'Pavlova, Ltd.','Ian Devling','74 Rose St. Moonie  
Ponds','Melbourne','3058','Australia','(03) 444-2343');  
INSERT INTO Suppliers VALUES(8,'Specialty Biscuits, Ltd.','Peter Wilson','29 King''s  
Way','Manchester','M14 GSD','UK','(161) 555-4448');  
INSERT INTO Suppliers VALUES(9,'PB Knäckebröd AB','Lars Peterson','Kaloadagatan  
13','Göteborg','S-345 67','Sweden','031-987 65 43');  
INSERT INTO Suppliers VALUES(10,'Refrescos Americanas LTDA','Carlos Diaz','Av. das  
Americanas 12.890','São Paulo','5442','Brazil','(11) 555 4640');  
INSERT INTO Suppliers VALUES(11,'Heli Süßwaren GmbH & Co. KG','Petra  
Winkler','Tiergartenstraße 5','Berlin','10785','Germany','(010) 9984510');  
INSERT INTO Suppliers VALUES(12,'Plutzer Lebensmittelgroßmärkte AG','Martin  
Bein','Bogenallee 51','Frankfurt','60439','Germany','(069) 992755');  
INSERT INTO Suppliers VALUES(13,'Nord-Ost-Fisch Handelsgesellschaft mbH','Sven  
Petersen','Frahmredder 112a','Cuxhaven','27478','Germany','(04721) 8713');  
INSERT INTO Suppliers VALUES(14,'Formaggi Fortini s.r.l.','Elio Rossi','Viale Dante,  
75','Ravenna','48100','Italy','(0544) 60323');  
INSERT INTO Suppliers VALUES(15,'Norske Meierier','Beate Vileid','Hatlevegen  
5','Sandvika','1320','Norway','(0)2-953010');  
INSERT INTO Suppliers VALUES(16,'Bigfoot Breweries','Cheryl Saylor','3400 - 8th Avenue  
Suite 210','Bend','97101','USA','(503) 555-9931');  
INSERT INTO Suppliers VALUES(17,'Svensk Sjöföda AB','Michael Björn','Brovallavägen  
231','Stockholm','S-123 45','Sweden','08-123 45 67');  
INSERT INTO Suppliers VALUES(18,'Aux joyeux ecclésiastiques','Guylène Nodier','203,  
Rue des Francs-Bourgeois','Paris','75004','France','(1) 03.83.00.68');  
INSERT INTO Suppliers VALUES(19,'New England Seafood Cannery','Robb  
Merchant','Order Processing Dept. 2100 Paul Revere Blvd.','Boston','2134','USA','(617) 555-  
3267');  
INSERT INTO Suppliers VALUES(20,'Leka Trading','Chandra Leka','471 Serangoon Loop,  
Suite #402','Singapore','512','Singapore','555-8787');  
INSERT INTO Suppliers VALUES(21,'Lyngbysild','Niels Petersen','Lyngbysild Fiskebakken  
10','Lyngby','2800','Denmark','43844108');  
INSERT INTO Suppliers VALUES(22,'Zaanse Snoepfabriek','Dirk Luchte','Verkoop Rijnweg  
22','Zaandam','9999 ZZ','Netherlands','(12345) 1212');  
INSERT INTO Suppliers VALUES(23,'Karkki Oy','Anne Heikkonen','Valtakatu  
12','Lappeenranta','53120','Finland','(953) 10956');

INSERT INTO Suppliers VALUES(24,'G''day, Mate','Wendy Mackenzie','170 Prince Edward  
Parade Hunter''s Hill','Sydney','2042','Australia','(02) 555-5914');  
INSERT INTO Suppliers VALUES(25,'Ma Maison','Jean-Guy Lauzon','2960 Rue St.  
Laurent','Montréal','H1J 1C3','Canada','(514) 555-9022');  
INSERT INTO Suppliers VALUES(26,'Pasta Buttini s.r.l.','Giovanni Giudici','Via dei  
Gelsomini, 153','Salerno','84100','Italy','(089) 6547665');  
INSERT INTO Suppliers VALUES(27,'Escargots Nouveaux','Marie Delamare','22, rue H.  
Voiron','Montceau','71300','France','85.57.00.07');  
INSERT INTO Suppliers VALUES(28,'Gai pâturage','Eliane Noz','Bat. B 3, rue des  
Alpes','Annecy','74000','France','38.76.98.06');  
INSERT INTO Suppliers VALUES(29,'Forêts d''érables','Chantal Goulet','148 rue  
Chasseur','Ste-Hyacinthe','J2S 7S8','Canada','(514) 555-2955');  
INSERT INTO Products VALUES(1,'Chais',1,1,'10 boxes x 20 bags',18);  
INSERT INTO Products VALUES(2,'Chang',1,1,'24 - 12 oz bottles',19);  
INSERT INTO Products VALUES(3,'Aniseed Syrup',1,2,'12 - 550 ml bottles',10);  
INSERT INTO Products VALUES(4,'Chef Anton''s Cajun Seasoning',2,2,'48 - 6 oz jars',22);  
INSERT INTO Products VALUES(5,'Chef Anton''s Gumbo Mix',2,2,'36 boxes',21.35);  
INSERT INTO Products VALUES(6,'Grandma''s Boysenberry Spread',3,2,'12 - 8 oz jars',25);  
INSERT INTO Products VALUES(7,'Uncle Bob''s Organic Dried Pears',3,7,'12 - 1 lb  
pkgs.',30);  
INSERT INTO Products VALUES(8,'Northwoods Cranberry Sauce',3,2,'12 - 12 oz jars',40);  
INSERT INTO Products VALUES(9,'Mishi Kobe Niku',4,6,'18 - 500 g pkgs.',97);  
INSERT INTO Products VALUES(10,'Ikura',4,8,'12 - 200 ml jars',31);  
INSERT INTO Products VALUES(11,'Queso Cabrales',5,4,'1 kg pkg.',21);  
INSERT INTO Products VALUES(12,'Queso Manchego La Pastora',5,4,'10 - 500 g  
pkgs.',38);  
INSERT INTO Products VALUES(13,'Konbu',6,8,'2 kg box',6);  
INSERT INTO Products VALUES(14,'Tofu',6,7,'40 - 100 g pkgs.',23.25);  
INSERT INTO Products VALUES(15,'Genen Shouyu',6,2,'24 - 250 ml bottles',15.5);  
INSERT INTO Products VALUES(16,'Pavlova',7,3,'32 - 500 g boxes',17.45);  
INSERT INTO Products VALUES(17,'Alice Mutton',7,6,'20 - 1 kg tins',39);  
INSERT INTO Products VALUES(18,'Carnarvon Tigers',7,8,'16 kg pkg.',62.5);  
INSERT INTO Products VALUES(19,'Teatime Chocolate Biscuits',8,3,'10 boxes x 12  
pieces',9.2);  
INSERT INTO Products VALUES(20,'Sir Rodney''s Marmalade',8,3,'30 gift boxes',81);  
INSERT INTO Products VALUES(21,'Sir Rodney''s Scones',8,3,'24 pkgs. x 4 pieces',10);  
INSERT INTO Products VALUES(22,'Gustaf''s Knäckebröd',9,5,'24 - 500 g pkgs.',21);  
INSERT INTO Products VALUES(23,'Tunnbröd',9,5,'12 - 250 g pkgs.',9);  
INSERT INTO Products VALUES(24,'Guaraná Fantástica',10,1,'12 - 355 ml cans',4.5);  
INSERT INTO Products VALUES(25,'NuNuCa Nuß-Nougat-Creme',11,3,'20 - 450 g  
glasses',14);  
INSERT INTO Products VALUES(26,'Gumbär Gummibärchen',11,3,'100 - 250 g  
bags',31.23);  
INSERT INTO Products VALUES(27,'Schoggi Schokolade',11,3,'100 - 100 g pieces',43.9);  
INSERT INTO Products VALUES(28,'Rössle Sauerkraut',12,7,'25 - 825 g cans',45.6);  
INSERT INTO Products VALUES(29,'Thüringer Rostbratwurst',12,6,'50 bags x 30  
sausgs.',123.79);

INSERT INTO Products VALUES(30,'Nord-Ost Matjeshering',13,8,'10 - 200 g  
glasses',25.89);  
INSERT INTO Products VALUES(31,'Gorgonzola Telino',14,4,'12 - 100 g pkgs',12.5);  
INSERT INTO Products VALUES(32,'Mascarpone Fabioli',14,4,'24 - 200 g pkgs.',32);  
INSERT INTO Products VALUES(33,'Geitost',15,4,'500 g',2.5);  
INSERT INTO Products VALUES(34,'Sasquatch Ale',16,1,'24 - 12 oz bottles',14);  
INSERT INTO Products VALUES(35,'Steeleye Stout',16,1,'24 - 12 oz bottles',18);  
INSERT INTO Products VALUES(36,'Inlagd Sill',17,8,'24 - 250 g jars',19);  
INSERT INTO Products VALUES(37,'Gravad lax',17,8,'12 - 500 g pkgs.',26);  
INSERT INTO Products VALUES(38,'Côte de Blaye',18,1,'12 - 75 cl bottles',263.5);  
INSERT INTO Products VALUES(39,'Chartreuse verte',18,1,'750 cc per bottle',18);  
INSERT INTO Products VALUES(40,'Boston Crab Meat',19,8,'24 - 4 oz tins',18.4);  
INSERT INTO Products VALUES(41,'Jack''s New England Clam Chowder',19,8,'12 - 12 oz  
cans',9.65);  
INSERT INTO Products VALUES(42,'Singaporean Hokkien Fried Mee',20,5,'32 - 1 kg  
pkgs.',14);  
INSERT INTO Products VALUES(43,'Ipoh Coffee',20,1,'16 - 500 g tins',46);  
INSERT INTO Products VALUES(44,'Gula Malacca',20,2,'20 - 2 kg bags',19.45);  
INSERT INTO Products VALUES(45,'Røgede sild',21,8,'1k pkg.',9.5);  
INSERT INTO Products VALUES(46,'Spegesild',21,8,'4 - 450 g glasses',12);  
INSERT INTO Products VALUES(47,'Zaanse koeken',22,3,'10 - 4 oz boxes',9.5);  
INSERT INTO Products VALUES(48,'Chocolade',22,3,'10 pkgs.',12.75);  
INSERT INTO Products VALUES(49,'Maxilaku',23,3,'24 - 50 g pkgs.',20);  
INSERT INTO Products VALUES(50,'Valkoinen suklaa',23,3,'12 - 100 g bars',16.25);  
INSERT INTO Products VALUES(51,'Manjimup Dried Apples',24,7,'50 - 300 g pkgs.',53);  
INSERT INTO Products VALUES(52,'Filo Mix',24,5,'16 - 2 kg boxes',7);  
INSERT INTO Products VALUES(53,'Perth Pasties',24,6,'48 pieces',32.8);  
INSERT INTO Products VALUES(54,'Tourtière',25,6,'16 pies',7.45);  
INSERT INTO Products VALUES(55,'Pâté chinois',25,6,'24 boxes x 2 pies',24);  
INSERT INTO Products VALUES(56,'Gnocchi di nonna Alice',26,5,'24 - 250 g pkgs.',38);  
INSERT INTO Products VALUES(57,'Ravioli Angelo',26,5,'24 - 250 g pkgs.',19.5);  
INSERT INTO Products VALUES(58,'Escargots de Bourgogne',27,8,'24 pieces',13.25);  
INSERT INTO Products VALUES(59,'Raclette Courdavault',28,4,'5 kg pkg.',55);  
INSERT INTO Products VALUES(60,'Camembert Pierrot',28,4,'15 - 300 g rounds',34);  
INSERT INTO Products VALUES(61,'Sirop d''érable',29,2,'24 - 500 ml bottles',28.5);  
INSERT INTO Products VALUES(62,'Tarte au sucre',29,3,'48 pies',49.3);  
INSERT INTO Products VALUES(63,'Vegie-spread',7,2,'15 - 625 g jars',43.9);  
INSERT INTO Products VALUES(64,'Wimmers gute Semmelknödel',12,5,'20 bags x 4  
pieces',33.25);  
INSERT INTO Products VALUES(65,'Louisiana Fiery Hot Pepper Sauce',2,2,'32 - 8 oz  
bottles',21.05);  
INSERT INTO Products VALUES(66,'Louisiana Hot Spiced Okra',2,2,'24 - 8 oz jars',17);  
INSERT INTO Products VALUES(67,'Laughing Lumberjack Lager',16,1,'24 - 12 oz  
bottles',14);  
INSERT INTO Products VALUES(68,'Scottish Longbreads',8,3,'10 boxes x 8 pieces',12.5);  
INSERT INTO Products VALUES(69,'Gudbrandsdalsost',15,4,'10 kg pkg.',36);  
INSERT INTO Products VALUES(70,'Outback Lager',7,1,'24 - 355 ml bottles',15);  
INSERT INTO Products VALUES(71,'Fløtemysost',15,4,'10 - 500 g pkgs.',21.5);  
INSERT INTO Products VALUES(72,'Mozzarella di Giovanni',14,4,'24 - 200 g pkgs.',34.8);

INSERT INTO Products VALUES(73,'Röd Kaviar',17,8,'24 - 150 g jars',15);  
INSERT INTO Products VALUES(74,'Longlife Tofu',4,7,'5 kg pkg.',10);  
INSERT INTO Products VALUES(75,'Rhönbräu Klosterbier',12,1,'24 - 0.5 l bottles',7.75);  
INSERT INTO Products VALUES(76,'Lakkalikööri',23,1,'500 ml',18);  
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# Bài tập

Bài 1. Viết các câu lệnh SQL thực hiện các công việc sau đây

A table with text and numbers

Description automatically generated

3.Viết câu truy vấn toàn bộ thông tin trong bảng STUDENT

4.Truy vấn mã sinh viên, tên, gpa của các sinh viên có điểm gpa không nhỏ hơn 3.2

5.Truy vấn các sinh viên có địa chỉ là Hai Duong

6.Truy vấn các sinh viên có địa chỉ là Nam Dinh và có điểm gpa không nhỏ hơn

3.2

7.Truy vấn các sinh viên có điểm gpa không nhỏ hơn 2.5 và không lớn hơn 3.2

8.Truy vấn các sinh viên có tên bắt đầu bằng chữ h hoặc p

9.Truy vấn các sinh viên có tên kết thúc bằng chữ g hoặc m và có tên có tối thiểu 5

kí tự

10.Truy vấn các sinh viên quê ở Hai Duong, Nam Dinh và sinh sau năm 2000

11.Truy vấn các sinh viên mà trong tên của họ chứa 1 chữ cái bất kì trong đoạn từ a

tới h.

12.Truy vấn các sinh viên theo thứ tự gpa giảm dần, nếu 2 bạn có cùng gpa thì bạn

nào trẻ hơn sẽ xếp trước

13.Truy vấn các địa chỉ riêng biệt trong bản

14. Truy vấn các sinh viên mà địa chỉ của họ không được chứa các chữ cái từ a tới

g

15. Truy các sinh viên mà sinh năm 2000

16. Truy vấn các sinh viên sinh năm 1999 và tên có kết thúc là chữ n, điểm gpa là

2.1 , 2.2, 2.5 hoặc 2.8

17.Tìm điểm trung bình GPA của mọi sinh viên

18.Tìm điểm GPA cao nhất và đặt tên là max\_gpa

19.Tìm điểm GPA thấp nhất và đặt tên là min\_gpa

20.In ra thông tin của sinh viên có điểm cao nhất, nếu 2 sinh viên có cùng điểm cao

nhất thì in ra theo thứ tự mã sinh viên tăng dần theo từ điển

21.In ra thông tin của sinh viên có điểm thấp nhất, nếu 2 sinh viên có cùng điểm

cao nhất thì in ra theo mã sinh viên giảm dần theo thứ tự từ điển

22.In ra thông tin 3 bạn có gpa cao nhất theo thứ tự giảm dần, nếu 2 bạn có cùng

gpa thì bạn nào có mã sinh viên nhỏ hơn sẽ xếp trước

23. In ra thông tin những sinh viên có địa chỉ là xâu chứa ít nhất 9 kí tự theo điểm

gpa giảm dần

24. In ra những sinh viên có điểm gpa lớn hơn điểm gpa trung bình theo thứ tự gpa

giảm dần

25.In ra những sinh viên có 2 chữ cái cuối cùng trong tên là “nh” hoặc “an”

26.In ra những sinh viên có 3 chữ cái đầu tiên là “tra” hoặc “ngu” theo địa chỉ tăng

dần về từ điển, 2 bạn cùng địa chỉ thì bạn có mã sinh viên nhỏ hơn sẽ xếp trước.

27. In ra những sinh viên sinh vào tháng 7 năm 1999 theo thứ tự mã sinh viên tăng

dần

28. In ra các bạn trẻ nhất trong các bạn sinh viên theo thứ tự mã sinh viên tăng dần

29. In ra các bạn lớn tuổi nhất trong các bạn sinh viên theo thứ tự điểm gpa giảm

dần

30. Đếm xem mỗi địa chỉ có bao nhiêu sinh viên, sau đó sắp xếp các địa chỉ này

theo số lượng sinh viên giảm dần

31. In ra những bạn sinh viên sinh sau ngày 28/04/1999 và có điểm gpa lớn hơn

điểm gpa trung bình

32. In ra lớp có sinh viên lớn hơn 1 người, nếu có nhiều lớp có cùng số lượng sinh

viên lớn hơn 1 người thì in theo thứ tự từ điển tăng dần

33. In ra những tỉnh thành có ít nhất 2 sinh viên trở lên, và sắp xếp các tỉnh thành

này theo số lượng sinh viên giảm dần.

34. Tìm số ngày chênh lệch giữa bạn có ngày sinh nhỏ nhất với bạn có ngày sinh

lớn nhất trong danh sách

Bài tập áp dụng Microsoft NorthWind Database

1.Truy vấn các thành phố khác nhau xuất hiện trong bảng Customers

2.Liệt kê những khách hàng sống tại Berlin trong bảng Customers

3.Liệt kê những khách hàng không sống tại Berlin trong bảng Customers

4.Liệt kê những khách hàng sống tại thành phố London và có mã khách hàng là số

chẵn

5.Liệt kê những khách hàng có tên bắt đầu bằng chữ A

6. Liệt kê những khách hàng có tên bắt đầu bằng chữ A, B hoặc D

7. Liệt kê những khách hàng có tên bắt đầu bằng chữ A và kết thúc bằng chữ e

8. Liệt kê những khách hàng có tên có độ dài tối thiểu là 25

9. Liệt kê những khách hàng có tên kết thúc bởi “sen”

10. Liệt kê những khách hàng có tên bắt đầu bởi “cen”

11. Liệt kê những khách hàng có tên có thứ tự từ điển lớn hơn “Harani Canes”

12.Liệt kê nhân viên sinh năm 1968

13. Liệt kê nhân viên sinh vào tháng 2

14. Liệt kê nhân viên sinh ngày mồng 2

15.Liệt kê khách hàng trong tên chứa cụm “ar”

16.Liệt kê khách hàng có tên bắt đầu bằng “B” và kết thúc bằng “e”

17. Liệt kê khách hàng có chữ cái thứ 2 trong tên là chữ “r”

18. Liệt kê khách hàng có chữ cái thứ 3 từ cuối về trong tên là chữ “h”

19. Liệt kê khách hàng có tên bắt đầu bằng 1 trong các chữ cái ‘a’, ‘b’, ‘h’, ‘d’

20. Liệt kê khách hàng có tên kết thúc bằng 1 trong các chữ cái ‘a’, ‘b’, ‘h’, ‘d’

21.Liệt kê những khách hàng và thông tin đơn hàng đã đặt hàng vào tháng 7 năm

1996

22. Liệt kê những khách hàng và thông tin đơn hàng đã đặt hàng vào tháng 12 năm

1996 và sống tại Mỹ

23. Liệt kê những khách hàng và thông tin đơn hàng đã đặt hàng sau ngày 09-10-

1996 và sống tại London

24. Liệt kê những khách hàng đã đặt hàng vào tháng 10 năm 1996 và được ship bởi

shipper có ID là 3

25. Liệt kê những khách hàng và thông tin đơn hàng được xử lý bởi nhân viên có

ID là 4

26.Liệt kê thông tin những đơn hàng được xử lý bởi nhân viên có FirstName là

“Nancy”

27.Liệt kê những sản phẩm được mua trong đơn hàng có ID là 1024