create database assignments;

use assignments;

CREATE TABLE Customer(Id int NOT NULL PRIMARY KEY, FirstName nvarchar(40) NOT NULL,

LastName nvarchar(40), City nvarchar(40), Country nvarchar(40), Phone nvarchar(20));

ALTER TABLE Customer ADD FAX INTEGER;

SELECT \* FROM Customer;

CREATE TABLE Orders(Id int NOT NULL PRIMARY KEY, OrderDate datetime NOT NULL, OrderNumber nvarchar(10),

CustomerId int FOREIGN KEY REFERENCES Customer(Id), TotalAmount decimal(12,2));

ALTER TABLE Orders ADD ShipName varchar(50);

alter table Orders add ShippingDate date;

SELECT \* FROM Orders;

CREATE TABLE Product(Id int NOT NULL PRIMARY KEY, ProductName nvarchar(50),

UnitPrice decimal(12,2), Package nvarchar(30), IsDiscontinued bit);

alter table Product ADD supplier varchar(50);

alter table Product ADD CategoryName varchar(50);

alter table Product ADD Available varchar(50);

alter table Product add unitinstock int , unitonorder int;

SELECT \* FROM Product;

CREATE TABLE OrderItem(Id int NOT NULL PRIMARY KEY, OrderID int FOREIGN KEY REFERENCES Orders(Id),

ProductId int FOREIGN KEY REFERENCES Product(Id), UnitPrice decimal(12,2), Quantity int);

SELECT \* FROM OrderItem;

CREATE TABLE Shipping(ShipId int Primary key, ShipName VARCHAR(50) NOT NULL,

ShipCompany VARCHAR(50) NOT NULL, IsOperational BIT);

SELECT \* FROM Shipping;

CREATE TABLE Employee(EmpID INT NOT NULL PRIMARY KEY, EmpRole NVARCHAR(20), EmpName nvarchar(50),

EmpLName nvarchar(50), DeptName nvarchar(50), Rating int, Doj DATE);

select \* from Employee;

INSERT INTO Customer(Id, FirstName, LastName, City, Country, Phone) VALUES ('1001', 'Sumit', 'Jain', 'Bhopal', 'India', '9876543210'),

('1002', 'Srishti', 'Sharma', 'Berlin', 'Germany', '1234567890'), ('1003', 'Goerge', 'Russel', 'New York', 'America', '2718264850'),

('1004', 'Joe', 'Biden', 'Washington DC', 'America', '030-0074321');

INSERT INTO Orders(Id, OrderDate, OrderNumber, CustomerId, TotalAmount) VALUES ('2001', '2018-10-27 12:36:10', '1', '1002', '1500'),

('2002', '2020-05-15 09:07:47', '2', '1003', '3130'), ('2003', '2015-08-27 18:12:33', '3', '1001', '7360');

INSERT INTO Orders(Id, OrderDate, OrderNumber, CustomerId, TotalAmount,ShippingDate) VALUES ('2004', '2018-11-27 12:36:10', '4', '1002', '3000','2022-05-25'),

('2005', '2018-02-25 16:36:10', '5', '1001', '300','2022-05-17'), ('2006', '2019-02-21 17:36:10', '6', '1004', '80000','2023-05-17'),

('2007', '2018-01-25 16:36:10', '7', '1001', '200','2012-05-17');

INSERT INTO Product(Id, ProductName, UnitPrice, Package, IsDiscontinued) VALUES ('3001', 'shampoo', '250.00', '500000', '0'),

('3002', 'cookies', '140.00', '150000', '0'), ('3003', 'cooking oil', '300.00', '683000', '1'),

('3004', 'fish', '50.00', '30000', '1'), ('3005', 'Sushi', '150.00', '28000', '1'), ('3006','Tea', '10.00', '8000', '0');

INSERT INTO OrderItem(Id, OrderID, ProductId, UnitPrice, Quantity) VALUES ('4001', '2001', '3001', '250', '200'),

('4002', '2002', '3002', '200', '300'), ('4003', '2003', '3003', '350', '100'),('4004', '2004', '3002', '10', '90'),

('4005', '2005', '3001', '17', '80'), ('4006', '2006', '3006', '50', '2000');

insert into Shipping(ShipId,ShipName,ShipCompany,IsOperational) values (5001,'La corned abondance','Below Deck',1),

(5002,'Titanic','Aboat Time',0), (5003,'Aboat Time','AP Moller-Maersk',1), (5004,'Endless Summer','China Cosco',1);

INSERT INTO Employee(EmpID,EmpRole,EmpName,EmpLName) VALUES (101,'Manager','Rajesh','Verma'),

(102,'Manager','Kiran','Singh'),(103,'Employer','Vedant','Kumar');

UPDATE Customer SET FAX = 111111 WHERE ID = 1001;

update Product set CategoryName = 'SeaFood' where Id = 3004;

update Product set CategoryName = 'SeaFood' where Id = 3005;

update Product set supplier = 'Exotic Liquids' where Id = 3001;

update Product set supplier = 'Exotic Liquids' where Id = 3003;

update Orders set ShipName = 'La corned abondance' where Id = 2005;

update Orders SET ShippingDate = '2023-12-01' where Id = 2004;

update Employee set DeptName = 'IT' where EmpID = 101;

update Employee set DeptName = 'Accounts' where EmpID = 102;

update Employee set Rating = 3 where EmpID = 103;

update Employee set Doj = '2022-05-25' where EmpID = 103;

update Product set Available = 'Out of Stock' where Id = 3006;

update Product set unitinstock = 0,unitonorder= 50 where Id=3006;

select \* from Customer;

select Country from Customer where Country like 'A%' or Country like 'I%';

select FirstName from Customer where FirstName like '\_\_i%';

select \* from Customer where Country='Germany';

SELECT \* FROM Customer WHERE FirstName like '\_u%';

SELECT EmpName + ' ' + EmpLName AS FullName FROM Employee;

SELECT \* FROM Customer WHERE FAX IS NOT NULL;

select \* from OrderItem where UnitPrice between 10 and 20;

SELECT \* FROM Orders WHERE ShippingDate IS NOT NULL ORDER BY ShippingDate DESC;

select \* from Product where supplier = 'Exotic Liquids';

SELECT ProductName, CategoryName, (Package\*(1 - 0.15)) AS PriceAfterDiscount FROM Product WHERE Id=4;

select \* from Orders where ShipName='La corned abondance'and ShippingDate between '2022-01-23' and '2022-05-02';

select avg(Quantity) from OrderItem;

select \* from Orders order by OrderDate;

SELECT \* FROM Shipping WHERE IsOperational = 1;

SELECT \* FROM Employee WHERE EmpRole = 'Manager';

SELECT \* FROM Orders JOIN Customer ON Orders.CustomerId = Customer.Id WHERE Customer.Phone = '030-0074321';

select \* from Product Where CategoryName = 'SeaFood';

SELECT \* FROM Orders JOIN Customer ON Orders.CustomerId = Customer.Id WHERE Customer.city != 'London';

SELECT \* FROM OrderItem JOIN Product ON OrderItem.ProductId = Product.Id WHERE Product.ProductName = 'Chai';

select \* from Employee;

select sum(UnitPrice) from Product group by UnitPrice having UnitPrice>50;

select TOP 1 \* from Employee order by Doj desc;

select TOP 1 \* from Employee order by Doj asc;

select ProductName,min(UnitPrice),max(UnitPrice) from Product group by ProductName;

select \*from Product where Available='Out of Stock';

select \* from Product where unitinstock<unitonorder;

select CategoryName , Supplier from Product;

SELECT Customer.FirstName,LastName,Orders.Id,OrderDate FROM customer JOIN Orders ON Customer.Id=Orders.CustomerId ;

SELECT TOP 1 CustomerId, COUNT(Id) AS order\_count FROM Orders GROUP BY CustomerId ORDER BY order\_count DESC;

select customer.Id from customer where FirstName like '%ra%';

SELECT SUBSTRING(ShipCompany, 1, CHARINDEX(' ', ShipCompany)) AS first\_word FROM Shipping;

select \* from Shipping;