-- FINAL

-- ДОБАВЛЕНИЕ

-- 1. Добавление товаров

INSERT Goods(VendorCode, GoodsTitle, Description, Price) VALUES (1000, 'Spoon', 'Silver spoon.', 125.50);

-- 2. Добавление поставщика

INSERT Seller(Name, TaxPayerId, Phone) VALUES ('Out knives', 193312, '89531437811')

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-- ИЗМЕНЕНИЕ

-- 1. Изменение личных данных конкретного менеджера

UPDATE Staff SET IdRole=1, FIO='Staheev Dmitry Ivanovich', DateOfBirth='2002-01-08', Phone='+79214782210'

WHERE (UserName='admin')

-- 2. Изменение пароля/логина менеджера

UPDATE LoginPassword SET UserName='0001ms', Password='notqwerty'

WHERE (UserName ='0001ms' AND 1 = (SELECT Staff.IdStaff FROM Staff WHERE Staff.UserName = '0001ms'))

-- 4. Изменение статуса учётной записи конкретного менеджера на "не активен"

UPDATE LoginPassword SET IsValidAccount=0

WHERE (LoginPassword.UserName='0001ms')

-- 2. Изменение статуса учётной записи конкретного менеджера на "не активен"

-- 3. Изменение личных данных конкретного поставщика

UPDATE Seller SET Name='Out knives', TaxPayerId=193312 , Phone='89531437811'

WHERE (Seller.IdSeller=1)

--4. Изменение информации об одном товаре

UPDATE Goods SET VendorCode=1001,

GoodsTitle='Spoon',

Description='Silver spoon.',

Price=12690

WHERE (Goods.VendorCode=1000)

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-- ВЫВОД

-- 1. Вывод всех статусов заказов

SELECT \* FROM StatusOrder

-- 2. Вывод всех ролей

SELECT \* FROM Role

-- 3. Вывод данных о конкретном менеджере

SELECT FIO, Role.Name as RoleName, FIO, DateOfBirth, Phone, LoginPassword.UserName, LoginPassword.Password, IsValidAccount FROM Staff

JOIN Role ON Role.IdRole = Staff.IdRole

JOIN LoginPassword on Staff.UserName = LoginPassword.UserName

WHERE (Staff.IdStaff=1)

-- 4. Вывод данных о конкретном поставщике

-- по id

SELECT \* FROM Seller

WHERE Seller.IdSeller=1

-- по номеру телефона

SELECT \* FROM Seller

WHERE Seller.Phone='89531437811'

-- по ИНН

SELECT \* FROM Seller

WHERE Seller.TaxPayerId=193312

-- 5. Вывод данных о конкретном товаре

SELECT \* FROM Goods

WHERE VendorCode = 1001

-- 6. Вывод данных о товаре в ценовом диапазоне

-- меньше

SELECT \* FROM Goods WHERE Price <= 20.0 ORDER BY Price ASC

-- больше

SELECT \* FROM Goods WHERE Price >= 20.0 ORDER BY Price DESC

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-- СЛОЖНЫЕ ЗАПРОСЫ

-- 3. Вывод информации о конкретной накладной и ее закупках

SELECT Invoice.InvoiceNumber, [Date], TotalSum, Seller.IdSeller, Staff.UserName FROM Invoice

JOIN Staff ON Invoice.IdManger = Staff.IdStaff

JOIN Seller ON Invoice.IdSeller = Seller.IdSeller

WHERE InvoiceNumber = 1

ORDER BY Invoice.[Date] ASC

-- 4. Вывод информации о конкретном заказе и его под заказах

SELECT OrderContent.VendorCode, Quantity, OrderContent.Price, StatusOrder.Title, OrderContentNumber, GoodsTitle FROM OrderContent

JOIN StatusOrder ON OrderContent.Status = StatusOrder.IdStatus

JOIN Goods G on OrderContent.VendorCode = G.VendorCode

WHERE OrderNumber = 1

-- 5. Вывод кол-ва продаж товара за период

SELECT SUM(Quantity) AS SumQuantity FROM OrderContent

JOIN Orders ON Orders.OrderNumber = OrderContent.OrderNumber

WHERE OrderContent.VendorCode = 1001 AND

Orders.[Date] >= '2020-12-01' AND

Orders.[Date] <= '2020-12-09'

-- 6. Вывод кол-ва закупок товара за период

SELECT SUM(Quantity) AS SumQuantity FROM InvoiceContent

JOIN Invoice ON Invoice.InvoiceNumber = InvoiceContent.InvoiceNumber

WHERE InvoiceContent.VendorCode = 1001 AND

Invoice.[Date] >= '2020-12-01' AND

Invoice.[Date] <= '2020-12-09'

-- 7. Вывод суммы закупок товара за период

SELECT SUM(SumPurchaseOneItem) FROM (

SELECT (Purchase)\*(Quantity) AS SumPurchaseOneItem FROM InvoiceContent

JOIN Invoice ON Invoice.InvoiceNumber = InvoiceContent.InvoiceNumber

WHERE InvoiceContent.VendorCode = 1001 AND

Invoice.[Date] >= '2020-12-01' AND

Invoice.[Date] <= '2020-12-09' ) as PurchaseQuantity

-- 8. Вывод суммы продаж товара за период

SELECT SUM(SumPriceOneItem) FROM (

SELECT (Price)\*(Quantity) AS SumPriceOneItem FROM OrderContent

JOIN Orders ON Orders.OrderNumber = OrderContent.OrderNumber

WHERE OrderContent.VendorCode = 1001 AND

Orders.[Date] >= '2020-12-01' AND +

Orders.[Date] <= '2020-12-09' ) as PriceQuantity

-- 9. Вывод накладных по номеру телефона менеджера

SELECT Invoice.InvoiceNumber, [Date], TotalSum, Seller.IdSeller, Staff.UserName FROM Invoice

JOIN Staff ON Invoice.IdManger = Staff.IdStaff

JOIN Seller ON Invoice.IdSeller = Seller.IdSeller

WHERE Staff.Phone = 'phone'

ORDER BY Invoice.[Date] ASC

-- 10. Вывод заказов по номеру телефона менеджера

SELECT OrderNumber, [Date], TotalSum, PnoneCustomer, NameCustomer, Staff.UserName FROM Orders

JOIN Staff ON Orders.IdManager = Staff.IdStaff

WHERE Staff.Phone = 'phone'

ORDER BY Orders.[Date] ASC

-- 11. Вывод всех накладных конкретного поставщика

-- по телефону

SELECT Invoice.InvoiceNumber, [Date], TotalSum,

Seller.IdSeller, Staff.UserName FROM Invoice

JOIN Staff ON Invoice.IdManger = Staff.IdStaff

JOIN Seller ON Invoice.IdSeller = Seller.IdSeller

WHERE Seller.Phone = '89531437811' ORDER BY Invoice.[Date] ASC

-- по ИНН

SELECT Invoice.InvoiceNumber, [Date], TotalSum,

Seller.IdSeller, Staff.UserName FROM Invoice

JOIN Staff ON Invoice.IdManger = Staff.IdStaff

JOIN Seller ON Invoice.IdSeller = Seller.IdSeller

WHERE Seller.TaxPayerId = 193312 ORDER BY Invoice.[Date] ASC

-- 12. Вывод всех заказов конкретного покупателя по номеру телефона

SELECT OrderNumber, [Date], TotalSum, PnoneCustomer, NameCustomer, Staff.UserName FROM Orders

JOIN Staff ON Orders.IdManager = Staff.IdStaff

WHERE Orders.PnoneCustomer = '89522795509'

ORDER BY Orders.[Date] ASC

-- 13. Вывод всех заказов, оформленных конкретным менеджером

SELECT OrderNumber, [Date], TotalSum, PnoneCustomer, NameCustomer, Staff.UserName FROM Orders

JOIN Staff ON Orders.IdManager = Staff.IdStaff

WHERE Staff.IdStaff = 1

ORDER BY Orders.[Date] ASC

-- 14. Вывод кол-ва оформленных заказов и сумму заказов для каждого менеджера продаж за период времени

SELECT Staff.Phone as PhoneManager, Staff.FIO as FIOManager, SUM(TotalSum) as SumPrice, SUM(Quantity) as SumQuantity FROM Orders

JOIN OrderContent ON Orders.OrderNumber = OrderContent.OrderNumber

JOIN Staff ON Orders.IdManager = Staff.IdStaff

WHERE Orders.[Date] >= '2020-12-01' AND

Orders.[Date] <= '2020-12-09'

GROUP BY Staff.Phone, Staff.FIO

-- 15. Вывод кол-ва оформленных накладных и суммы закупок для каждого менеджера закупок за период времени

SELECT Staff.Phone as PhoneManager, Staff.FIO as FIOManager, SUM(TotalSum) as SumPrice, SUM(Quantity) as SumQuantity FROM Invoice

JOIN InvoiceContent ON Invoice.InvoiceNumber = InvoiceContent.InvoiceNumber

JOIN Staff ON Invoice.IdManger = Staff.IdStaff

WHERE Invoice.[Date] >= '2020-12-01' AND

Invoice.[Date] <= '2020-12-09'

GROUP BY Staff.Phone, Staff.FIO

-- 16. Вывод под-заказов, имеющие конкретный статус заказа

SELECT OrderContent.VendorCode, Quantity, OrderContent.Price, StatusOrder.Title, OrderContentNumber, GoodsTitle FROM OrderContent

JOIN StatusOrder ON OrderContent.Status = StatusOrder.IdStatus

JOIN Goods G on OrderContent.VendorCode = G.VendorCode

WHERE OrderNumber = orderNumber AND StatusOrder.Title = 'PAID'

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-- ХРАНИМЫЕ ПРОЦЕДУРЫ

-- 1. регистрация менеджера

GO

create PROCEDURE registerManager(@UserName Varchar(20), @Password VARCHAR(64),@IdRole INT, @FIO VARCHAR(100), @DateOfBirth DATE, @Phone VARCHAR(13))

AS

BEGIN

INSERT LoginPassword(UserName, Password) VALUES (@UserName, @Password)

IF (@@ERROR = 0)

BEGIN

INSERT Staff(IdRole, FIO, DateOfBirth, Phone, UserName) VALUES (@IdRole, @FIO, @DateOfBirth, @Phone, @UserName)

IF (@@ERROR != 0)

BEGIN

DELETE LoginPassword WHERE UserName=@UserName

RAISERROR (15600, -1, -1, 'registerManager: not created record');

END

END

ELSE

RAISERROR (15600, -1, -1, 'registerManager: not created account');

END;

-- 2. Добавление заказа

-- 1. Сам заказ

GO

CREATE PROCEDURE AddOrder(@OrderNumber INT, @IdManager INT, @PhoneCustomer Varchar(13), @NameCustomer Varchar(100), @Date DATETIME)

AS

INSERT Orders(OrderNumber, IdManager, PnoneCustomer, NameCustomer, [Date]) VALUES(@OrderNumber, @IdManager, @PhoneCustomer, @NameCustomer, @Date)

-- 2. Добавление под-заказа

GO

CREATE PROCEDURE AddSubOrder(@OrderContentNumber INT, @OrderNumber INT, @Status INT, @VendorCode INT, @Quantity INT)

AS

DECLARE @countAmountOrder INT

SET @countAmountOrder = (SELECT Amount FROM Goods WHERE Goods.VendorCode=@VendorCode)

DECLARE @Price Money

IF (@countAmountOrder - @Quantity >=0)

BEGIN

SET @Price = (SELECT Price FROM Goods WHERE Goods.VendorCode=@VendorCode)

INSERT OrderContent(OrderContentNumber, OrderNumber, [Status], VendorCode, Quantity, Price) VALUES (@OrderContentNumber, @OrderNumber, @Status, @VendorCode, @Quantity, @Price)

IF (@@ERROR = 0)

BEGIN

SET @countAmountOrder = @countAmountOrder - @Quantity

EXEC UpdateGoodsAfterOrder @VendorCode, @countAmountOrder

END

ELSE

PRINT('U can not buy. Incorrect data')

END

ELSE

PRINT('U can not buy more then have')

DECLARE @TotalSum MONEY = 0.00

EXEC SumOfSubOrders @OrderNumber, @TotalSum OUTPUT

UPDATE Orders SET TotalSum=@TotalSum

WHERE Orders.OrderNumber = @OrderNumber

-- 3. Изменение кол-ва товара после покупки

GO

CREATE PROCEDURE UpdateGoodsAfterOrder( @VendorCode INT, @NewAmount INT)

AS UPDATE Goods SET Amount=@NewAmount

WHERE (Goods.VendorCode=@VendorCode)

-- 4. Подсичать сумму всего заказа

GO

CREATE PROCEDURE SumOfSubOrders( @OrderNumber INT, @Sum Money OUT)

AS SELECT @Sum = SUM(SumPriceOneOrder) FROM ( SELECT (Price)\*(Quantity) AS SumPriceOneOrder FROM OrderContent

WHERE OrderNumber=@OrderNumber) as SumPrice

RETURN;

-- 3. Добавление накладной

-- 1. Cама накладная

GO

CREATE PROCEDURE AddInvoice(@InvoiceNumber INT, @IdManager INT, @IdSeller INT, @Date DATETIME)

AS INSERT Invoice(InvoiceNumber, IdManger, IdSeller, [Date]) VALUES(@InvoiceNumber, @IdManager, @IdSeller, @Date)

-- 2. Под-закупка

GO

CREATE PROCEDURE AddSubInvoice(@InvoiceContentNumber INT,

@InvoiceNumber INT,

@VendorCode INT,

@Quantity INT,

@Purchase Money)

AS

DECLARE @countAmountInvoice INT

SET @countAmountInvoice = (SELECT Amount FROM Goods WHERE Goods.VendorCode=@VendorCode)

DECLARE @countPurchaseInvoice Money

SET @countPurchaseInvoice = (SELECT Purchase FROM Goods WHERE Goods.VendorCode=@VendorCode)

SET @countPurchaseInvoice = (@countPurchaseInvoice \* @countAmountInvoice + @Quantity \* @Purchase) / (@countAmountInvoice+@Quantity)

SET @countAmountInvoice = (@countAmountInvoice+@Quantity)

PRINT(@countPurchaseInvoice)

PRINT(@countAmountInvoice)

INSERT InvoiceContent(InvoiceContentNumber, InvoiceNumber, VendorCode, Quantity, Purchase) VALUES (@InvoiceContentNumber, @InvoiceNumber, @VendorCode, @Quantity, @Purchase)

if (@@ERROR = 0)

EXEC UpdateGoodsAfterInvoice @VendorCode, @countAmountInvoice, @countPurchaseInvoice

DECLARE @TotalSum MONEY = 0.00

EXEC SumOfSubInvoices @InvoiceNumber, @TotalSum OUTPUT

UPDATE Invoice SET Invoice.TotalSum=@TotalSum

WHERE Invoice.InvoiceNumber = @InvoiceNumber

-- 3. Изменение цены закупки и кол-ва товара после закупки

GO

CREATE PROCEDURE UpdateGoodsAfterInvoice(@VendorCode INT, @NewAmount INT, @NewPurchase Money)

AS UPDATE Goods SET Amount=@NewAmount, Purchase=@NewPurchase

WHERE (Goods.VendorCode=@VendorCode)

-- 4. Подсичать сумму всего прихода

GO

CREATE PROCEDURE SumOfSubInvoices( @InvoiceNumber INT, @Sum Money OUT)

AS SELECT @Sum = SUM(SumPriceOneInvoice) FROM ( SELECT (Purchase)\*(Quantity) AS SumPriceOneInvoice FROM InvoiceContent

WHERE InvoiceNumber=@InvoiceNumber) as SumPurchase

RETURN;

-- 4. Вывод доступных для покупки товаров

GO

CREATE PROCEDURE GetAvailiableGoods AS

SELECT \* FROM Cataloge

WHERE (Amount > 0)

-- 5. Изменение статуса конкретного под-заказа

GO

CREATE PROCEDURE ChangeStatus(@OrderNumber INT, @OrderContentNumber INT, @IdNewStatus INT) AS

UPDATE OrderContent SET [Status]=@IdNewStatus

WHERE (OrderContent.OrderNumber = @OrderNumber) AND (OrderContent.OrderContentNumber=@OrderContentNumber)

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-- Представления

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-- 1. Вывод всех поставщиков

GO

CREATE VIEW Seller\_VIEW AS

SELECT Name, Phone, TaxPayerId FROM Seller;

-- 2. Вывод всех менеджеров

GO

CREATE VIEW Manager\_VIEW AS

SELECT IdStaff, Staff.UserName, Role.Name as NameRole, FIO, DateOfBirth, Phone FROM Staff

JOIN Role ON Role.IdRole = Staff.IdRole

-- 3. Вывод всех товаров

GO

CREATE VIEW Cataloge AS

SELECT VendorCode, GoodsTitle, Description, Price, Amount FROM GOODS

-- 4. Вывод всех заказов и их под заказов

GO

CREATE VIEW OrderAndContent AS

SELECT Orders.OrderNumber, Status, OrderContentNumber, [Date], TotalSum, PnoneCustomer, NameCustomer, Staff.FIO as FIOManager, Staff.Phone as PhoneManager, VendorCode, Quantity, Price FROM Orders

JOIN Staff ON Orders.IdManager = Staff.IdStaff

JOIN OrderContent ON Orders.OrderNumber = OrderContent.OrderNumber

-- 5. Вывод всех закупок и их под закупок

GO

CREATE VIEW InvoiceAndContent AS

SELECT Invoice.InvoiceNumber, InvoiceContentNumber, [Date], TotalSum, Seller.Name as NameSeller, Seller.Phone as PhoneSeller, TaxPayerId, Staff.FIO as FIOManager, Staff.Phone as PhoneManager, InvoiceContent.VendorCode, InvoiceContent.Quantity, InvoiceContent.Purchase FROM Invoice

JOIN Staff ON Invoice.IdManger = Staff.IdStaff

JOIN Seller ON Invoice.IdSeller = Seller.IdSeller

JOIN InvoiceContent ON Invoice.InvoiceNumber = InvoiceContent.InvoiceNumber

-- 6. Вывод всех менеджеров продаж и оформленных ими под заказов

GO

CREATE VIEW MangerAndSubOrder AS

SELECT Staff.FIO as FIOManager, Staff.Phone as PhoneManager, [Date], OrderContent.OrderContentNumber, OrderContent.VendorCode, OrderContent.Quantity, OrderContent.Price FROM Orders

JOIN Staff ON Orders.IdManager = Staff.IdStaff

JOIN OrderContent ON Orders.OrderNumber = OrderContent.OrderNumber

-- 7. Вывод всех менеджеров закупок и оформленных ими закупок

GO

CREATE VIEW ManagerAndSubInvoice AS

SELECT Staff.FIO as FIOManager, Staff.Phone as PhoneManager, [Date], InvoiceContent.InvoiceContentNumber, InvoiceContent.VendorCode, InvoiceContent.Quantity, InvoiceContent.Purchase FROM Invoice

JOIN Staff ON Invoice.IdManger = Staff.IdStaff

JOIN InvoiceContent ON Invoice.InvoiceNumber = InvoiceContent.InvoiceNumber