use Shop

--Lesson 4-1

SELECT COUNT(Sale.id) as [Count Product], MAX(Sale.price) as [Max price], AVG(Sale.price) as [AVG Price]

FROM Sale

--Lesson 4-2

SELECT COUNT(Delivery.id)

FROM Delivery

WHERE dateDelivery BETWEEN DATEADD(WEEK, -1, GETDATE()) AND GETDATE()

--Lesson 4-3

SELECT COUNT(Product.id)

FROM Product INNER JOIN Producer ON Product.idProducer = Producer.id

WHERE Producer.\_name IN('Kola', 'Selo')

--Lesson 4-4

SELECT Supplier.\_name, MIN(Delivery.price)

FROM Delivery INNER JOIN Supplier ON Delivery.idSupplier = Supplier.id

WHERE Delivery.dateDelivery BETWEEN DATEADD(MONTH, -1, GETDATE()) AND GETDATE()

GROUP BY Supplier.\_name

ORDER BY Supplier.\_name

--Lesson 4-5

SELECT Sale.dateSale, Sale.quantity

FROM Sale

GROUP BY Sale.dateSale, Sale.quantity

HAVING Sale.dateSale BETWEEN '2010-09-01' AND GETDATE()

ORDER BY Sale.quantity DESC

--Lesson 4-6

SELECT Product.\_name

FROM ((Delivery INNER JOIN Supplier ON Delivery.idSupplier = Supplier.id) INNER JOIN Product ON Delivery.idProduct = Product.id) INNER JOIN Producer ON Product.idProducer = Producer.id

WHERE Producer.\_name = 'Kola'

GROUP BY Product.\_name

HAVING COUNT(Supplier.id) >= 2

--Lesson 4-7

SELECT Producer.\_name as [Producer name], Country.\_name as [Country], COUNT(Product.id) as [Count products]

FROM (((Product INNER JOIN Producer ON Product.idProducer = Producer.id) INNER JOIN Adress ON Producer.idAddress = Adress.id) INNER JOIN Country ON Adress.idCountry = Country.id) INNER JOIN Sale ON Sale.idProduct = Product.id

WHERE Product.quantity > 0

GROUP BY Producer.\_name, Country.\_name

HAVING SUM(Sale.price \* Sale.quantity) BETWEEN 100 AND 10000

ORDER BY Country.\_name DESC, COUNT(Product.id)

--Lesson 4-8

SELECT Category.\_name, SUM(Delivery.quantity - Sale.quantity)

FROM ((Product INNER JOIN Category ON Product.idCategory = Category.id) INNER JOIN Delivery ON Delivery.idProduct = Product.id) INNER JOIN Sale ON Sale.idProduct = Product.id

WHERE dateDelivery > DATEADD(MONTH, -3, GETDATE())

GROUP BY Category.\_name

--Lesson 4-9

SELECT Category.\_name, SUM(Delivery.quantity - Sale.quantity)

FROM (((Product INNER JOIN Category ON Product.idCategory = Category.id) INNER JOIN Delivery ON Delivery.idProduct = Product.id) INNER JOIN Sale ON Sale.idProduct = Product.id) INNER JOIN Supplier ON Delivery.idSupplier = Supplier.id

WHERE Delivery.price > 300 AND Supplier.\_name IN('Fast', 'Slow', 'Cheap')

GROUP BY Category.\_name

--Lesson 4-10

SELECT Category.\_name, SUM(Delivery.quantity - Sale.quantity)

FROM ((Product INNER JOIN Category ON Product.idCategory = Category.id) INNER JOIN Delivery ON Delivery.idProduct = Product.id) INNER JOIN Sale ON Sale.idProduct = Product.id

GROUP BY Category.\_name

HAVING SUM(Delivery.quantity - Sale.quantity) = (

SELECT TOP 1 SUM(Delivery.quantity - Sale.quantity)

FROM ((Product INNER JOIN Category ON Product.idCategory = Category.id) INNER JOIN Delivery ON Delivery.idProduct = Product.id) INNER JOIN Sale ON Sale.idProduct = Product.id

GROUP BY Category.\_name

ORDER BY SUM(Delivery.quantity - Sale.quantity)

)

-----------------------------------------------------------------------------------------

--Lesson 5-1

SELECT DISTINCT Producer.\_name

FROM (Sale INNER JOIN Product ON Sale.idProduct = Product.id) INNER JOIN Producer ON Product.idProducer = Producer.id

WHERE Sale.quantity > 2

--Lesson 5-2

SELECT Product.\_name, SUM(Delivery.quantity - Sale.quantity)

FROM (Sale INNER JOIN Product ON Sale.idProduct = Product.id) INNER JOIN Delivery ON Delivery.idProduct = Product.id

GROUP BY Product.\_name

HAVING SUM(Delivery.quantity - Sale.quantity) = (

SELECT TOP 1 SUM(Delivery.quantity - Sale.quantity)

FROM (Sale INNER JOIN Product ON Sale.idProduct = Product.id) INNER JOIN Delivery ON Delivery.idProduct = Product.id

GROUP BY Product.\_name

ORDER BY SUM(Delivery.quantity - Sale.quantity) DESC

)

--Lesson 5-3

Declare @all float

SELECT @all = SUM(Sale.quantity)

FROM Sale

SELECT Category.\_name as 'Category', SUM( 100 /@all \* Sale.quantity) as 'Percent'

FROM (Sale INNER JOIN Product ON Sale.idProduct = Product.id) INNER JOIN Category ON Product.idCategory = Category.id

GROUP BY Category.\_name

--Lesson 5-4

SELECT Product.id, Product.\_name

FROM (Delivery INNER JOIN Product ON Delivery.idProduct = Product.id) INNER JOIN Supplier ON Delivery.idSupplier = Supplier.id

WHERE idSupplier = (

SELECT id

FROM Supplier

WHERE \_name = 'Fast'

)

--Lesson 5-5

SELECT Product.\_name, Product.price, Category.\_name

FROM (Delivery INNER JOIN Product ON Delivery.idProduct = Product.id) INNER JOIN Category ON Product.idCategory = Category.id

WHERE idSupplier = (

SELECT id

FROM Supplier

WHERE \_name = 'Slow'

)

--Lesson 5-6

SELECT DISTINCT Supplier.\_name

FROM (Delivery INNER JOIN Supplier ON Delivery.idSupplier = Supplier.id) INNER JOIN Product ON Delivery.idProduct = Product.id

WHERE Delivery.idSupplier != ( SELECT Delivery.idSupplier

FROM (Delivery INNER JOIN Supplier ON Delivery.idSupplier = Supplier.id) INNER JOIN Product ON Delivery.idProduct = Product.id

WHERE Product.\_name = 'IPhone'

)

--Lesson 5-7

SELECT Producer.\_name, Country.\_name

FROM (Producer INNER JOIN Adress ON Producer.idAddress = Adress.id) INNER JOIN Country ON Adress.idCountry = Country.id

WHERE Country.id = (

SELECT Country.id

FROM (Producer INNER JOIN Adress ON Producer.idAddress = Adress.id) INNER JOIN Country ON Adress.idCountry = Country.id

WHERE Producer.\_name = 'Veselo'

)

--Lesson 5-8 - самообъединение

--Lesson 5-9

SELECT COUNT(Supplier.\_name)

FROM Delivery INNER JOIN Supplier ON Delivery.idSupplier = Supplier.id

WHERE Delivery.dateDelivery BETWEEN '2010-08-01' AND '2010-09-01' AND EXISTS (

SELECT quantity

FROM Sale

WHERE quantity > 0

)

--Lesson 5-10

SELECT Producer.\_name

FROM Producer

WHERE Producer.idAddress IN (

SELECT id

FROM Adress

WHERE Adress.idCountry != (

SELECT id

FROM Country

WHERE Country.\_name = 'Ukraine'

)

)

ORDER BY Producer.\_name DESC

--Lesson 5-11

SELECT Product.\_name, Supplier.\_name, Adress.street + ', ' + Adress.town + ', ' + Country.\_name

FROM (((((Delivery INNER JOIN Product ON Delivery.idProduct = Product.id) INNER JOIN Supplier ON Delivery.idSupplier = Supplier.id) INNER JOIN Adress ON Supplier.idAddress = Adress.id) INNER JOIN Country ON Adress.idCountry = Country.id) INNER JOIN Category ON Product.idCategory = Category.id) INNER JOIN Producer ON Product.idProducer = Producer.id

WHERE Category.\_name IN ('Groceries', 'SmartPhones') AND Producer.id IN (

SELECT Producer.id

FROM Producer

WHERE Producer.\_name LIKE 'V%'

)

--Lesson 5-12

SELECT \_name

FROM Supplier

WHERE id NOT IN (

SELECT Supplier.id

FROM (Delivery INNER JOIN Product ON Delivery.idProduct = Product.id) INNER JOIN Supplier ON Delivery.idSupplier = Supplier.id

WHERE Delivery.quantity > 0

)

--Lesson 5-13

SELECT \_name

FROM Producer

WHERE id IN (

SELECT Producer.id

FROM (((Delivery INNER JOIN Product ON Delivery.idProduct = Product.id) INNER JOIN Sale ON Sale.idProduct = Product.id)) INNER JOIN Producer ON Product.idProducer = Producer.id

GROUP BY Producer.id

HAVING SUM(Delivery.quantity - Sale.quantity) > (

SELECT SUM(Delivery.quantity - Sale.quantity)

FROM ((Delivery INNER JOIN Product ON Delivery.idProduct = Product.id) INNER JOIN Sale ON Sale.idProduct = Product.id) INNER JOIN Producer ON Product.idProducer = Producer.id

WHERE Producer.\_name = 'Veselo'

)

)

--Lesson 5-14

SELECT Supplier.\_name, Product.\_name

FROM Supplier LEFT OUTER JOIN (Delivery LEFT OUTER JOIN Product ON Product.id = Delivery.idProduct) ON Supplier.id = Delivery.idSupplier

WHERE Product.\_name IS NULL

--Lesson 5-15 UNION

--Lesson 5-16 UNION

--Lesson 6-1

Create view TopBest5

AS

SELECT Product.\_name as 'Product'

FROM Delivery INNER JOIN Product ON Delivery.idProduct = Product.id

WHERE Delivery.idProduct IN (

SELECT TOP 5 Product.id

FROM Delivery INNER JOIN Product ON Delivery.idProduct = Product.id

GROUP BY Product.id

HAVING COUNT(Delivery.idProduct) > 0

ORDER BY COUNT(Delivery.idProduct) DESC

)

--Lesson 6-2 Запросы с параметрами не учили, в методичке инфа только для Access

--Lesson 6-3 Запросы с параметрами не учили, в методичке инфа только для Access

--Lesson 6-4 Запросы с параметрами не учили, в методичке инфа только для Access

--Lesson 6-5

INSERT INTO Category VALUES

('China-na-na')

INSERT INTO Product VALUES

('Something', 5, 123, 100, 17, 2, 5)

--Lesson 6-6

SELECT \*

INTO Delivery2009

FROM Delivery

WHERE Delivery.dateDelivery BETWEEN '2010-02-01' AND '2010-06-01'

INSERT INTO Delivery2009

SELECT \*

FROM Delivery

WHERE dateDelivery BETWEEN '2010-06-01' AND '2010-08-01'

--Lesson 6-7

UPDATE Product

SET Product.price = Product.price / 1.1

FROM Delivery INNER JOIN Product ON Delivery.idProduct = Product.id

WHERE Delivery.idSupplier IN (

SELECT id

FROM Supplier

WHERE \_name IN ('Fast', 'Slow')

)

--Lesson 6-8

UPDATE Sale

SET Sale.price = Sale.price \* 1.2

FROM (((Sale INNER JOIN Product ON Product.id = Sale.idProduct) INNER JOIN Producer ON Product.idProducer = Producer.id) INNER JOIN Delivery ON Delivery.idProduct = Product.id) INNER JOIN Supplier ON Delivery.idSupplier = Supplier.id

WHERE Producer.\_name = 'Kola' AND Supplier.id IN (1, 2)

--Lesson 6-9

UPDATE Delivery

SET dateDelivery = GETDATE()

WHERE dateDelivery IS NULL

--Lesson 6-10

DELETE

FROM Product

WHERE quantity < 100 AND price <= 10

--Lesson 6-11

DELETE

FROM Product

WHERE id IN (

SELECT Product.id

FROM (Sale INNER JOIN Product ON Product.id = Sale.idProduct) INNER JOIN Category ON Category.id = Product.idCategory

WHERE Category.\_name = 'Groceries'

GROUP BY Product.id, Sale.quantity, Sale.dateSale

HAVING Sale.quantity > 1000 AND dateSale BETWEEN DATEADD(YEAR, -1, GETDATE()) AND GETDATE()

)

--Lesson 6-12

DELETE

FROM Product

WHERE id IN (

SELECT \_name

FROM Product

GROUP BY \_name

HAVING AVG(Product.price) < (

SELECT AVG(Product.price)

FROM Product

)

)

--Lesson 6-13 непонятное задание

--Lesson 6-14 Запросы с параметрами не учили, в методичке инфа только для Access